

Rochdale Town Hall

Architect: Donald Insall Associates
Issue Status: D3 – For Construction

HERITAGE AREA LIGHTING

REF	LOCATION	MANUFACTURER / MODEL / REF	IMAGE OF EXISTING FITTING OR IMAGE OF SPACE FOR NEW FITTING	IMAGE OF PROPOSED FITTINGS	DESCRIPTION OF PROPOSALS	PROPOSED INITIAL LUMENS & POWER INPUT	COLOUR Ra / TEMP K	MOUNTING DETAILS	DIMS (LxWxH OR Dia x H) mm	GEAR	NOTES
HL1	Large Great Hall Pendant	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources		As existing	<i>Pendant to be removed for complete refurbishment.</i> <i>Complete clean rewire and the provision of bespoke bracketry and thermal heat sinks to accommodate new Tridonic LED modules as per below;</i> 4 x LLE-20x280-830-LV-SNC3 4 x LLE-20x560-830-LV-SNC3 2 X LC 50W/250-400mA 140V o4a Ip ADV Max Fordham to provide consultation and advice on final arrangement	The total Lumen package will be 14,600lm This will be delivered by 4 number vertical LED strings each consisting of 1 x 280mm LED module & 1 x 560mm LED module Centrally positioned around the 2 x LED drivers each driver to control 2 LED strings.	≥80CRI 2700K	Relocated to angels' hands. Provide a mains dislocation provision at the point of luminaire suspension for quick & easy isolation and removal for maintenance.	As existing	DALI dimmable, LED strings to be driven at adjustable current output 250-400mA. All drivers to be integrally mounted within the luminaire on suitable heat sinks positioned to avoid thermal transfer to the LED strings.	Mock-up required during Phase 1 of a single fitting COUNT: 8
HL1E	Large Great Hall Pendant	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources	As per mains powered luminaire.	As existing	Refurbishment details as per HL1 luminaire but to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	≥80CRI 2700K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire. COUNT: 4

MAX FORDHAM

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HL3	Great Hall (small) Pendant	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources	Like HL1, slightly smaller	As existing	Pendant to be removed for complete refurbishment. Complete clean rewire and the provision of bespoke bracketry and thermal heat sinks to accommodate new Tridonic LED modules as per below; 4 x LLE-20x560-830-LV-SNC3 1 x LC-75W/250-400mA 220V 0.4A Ip ADV Max Fordham to provide consultation and advice on final arrangement	The total Lumen package will be 9,600lm This will be delivered by 4 number vertical LED strings each consisting of 1 x 560mm LED module Centrally positioned around the LED driver controlling all 4 LED strings.	≥80CRI 2700K	Existing position to be maintained but the luminaires should be Provided with a mains dislocation provision at the point of luminaire suspension for quick & easy isolation and removal for maintenance.	As existing	DALI dimmable, LED strings to be driven at adjustable current output 250-400mA. The driver to be integrally mounted within the luminaire on a suitable heat sink positioned to avoid thermal transfer to the LED strings.	COUNT: 0

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HL4E	Great Hall Staircase Central Chandelier	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources		As existing in form but with new opal frosted white shades	<i>Pendant to be removed for complete refurbishment.</i> Suitably sized alternate frosted opal white Shades to be provided. All lamp holders to be replaced with new E14 lamp holders to accept new LED lamps Provide 6 spare shades. To be run as an emergency luminaire supplied from a central battery system.	420lm per lamp (25no) Lamps to be from Osram Vintage 1906 LED range. Specific lamp to be used; 1906 LED 36 4.5W/2500K E14	≥80Ra 2500K	As existing	As existing	N/A	Extensive cleaning of the fitting is not necessary, aged patina to be retained. COUNT: 1

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HL5a	Main entrance/ Exchange	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources		As existing	<i>Pendant to be removed for complete refurbishment.</i> <i>Complete clean rewire and the provision of bespoke bracketry, lamp holders and wiring components to accommodate the new Osram LED lamps and Tridonic drivers as per below;</i> 4 x Osram DULUX L LED HF & AC Mains 24 W/3000K 500 mm 2 X Tridonic LC 50W/250-400mA 140V o4a lp ADV Max Fordham to provide consultation and advice on final arrangement	The total Lumen package will be 12,000lm This will be delivered by 4 number LED replacement PLL lamps. Centrally positioned to provide a 60/40 light distribution (60% direct & 40% indirect)	≥80CRI 3000K	As existing	As existing	DALI dimmable. LED lamps to be driven at adjustable current output 250-400mA. Drivers should be integrally mounted within the luminaire on suitable heat sinks and positioned to avoid thermal transfer to the LED lamps.	Provide mock-up of a single fitting during Stage 3/4. To allow assessment of uplight and down light levels and colour temperature. Luminaires over staircase have much longer chains, heights of all fittings to be recorded and reinstated. Several luminaires may be used for concealing other electrical devices such as Wi-Fi routers and security equipment. COUNT: 15
HL5aE	Main entrance/ Exchange Emergency	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources	As per mains powered luminaire.	As existing	Refurbishment details as per HL5 luminaire but to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	≥80CRI 3000K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire. COUNT: 5

Schedule of Luminaires
Dwg #: 6582-MXF-ZZ-ZZ-SH-E-30001 Rev C05

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HL5bE	Central staircase	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources		As existing	<i>Pendant to be removed for complete refurbishment.</i> <i>Complete clean rewire and the provision of bespoke bracketry, lamp holders and wiring components to accommodate the new Osram LED lamps as per below;</i> 4 x Osram DULUX L LED HF & AC Mains 24 W/3000K 500 mm 2 X Tridonic LC 50W/300mA fixC Ip SNC Max Fordham to provide consultation and advice on final arrangement To be run as an emergency luminaire supplied from a central battery system.	The total Lumen package will be 12,000lm This will be delivered by 4 number LED replacement PLL lamps. Centrally positioned to provide a 60/40 light distribution (60% direct & 40% indirect)	≥80CRI 3000K	As existing	As existing	Fixed Output 300mA drivers. Drivers should be integrally mounted within the luminaire on suitable heat sinks and positioned to avoid thermal transfer to the LED lamps.	Provide mock-up of a single fitting during Stage 3/4. To allow assessment of uplight and down light levels and colour temperature. Luminaires over staircase have much longer chains, heights of all fittings to be recorded and reinstated. Several luminaires may be used for concealing other electrical devices such as Wi-Fi routers and security equipment. COUNT: 4

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HL6	Zodiac Room	New fitting supplied by LDL LDL POLO D-I	 Image above of existing space with 6 numbered pendants ceiling mounted.	Contemporary style fitting 3 number Wire suspended pendant 900mm diameter LED circular luminaires with up- and down-light. Opal Diffuser 	Remove existing pendants from ceiling and replace with 3 number circular LED luminaires Luminaire(s) to be surface fixed to the underside of the beams either side of the centrally positioned beam securing bolt. Bespoke finish. RAL colour to match bronze sample provided by architect.	11860lm 113W	≥80CRI 2700K	Luminaire(s) to be surface fixed to the underside of the beams centrally positioned directly below the beam securing bolt.	900mm ø 80mm	To be supplied with integral fixed output driver.	COUNT: 1
HL6E	Zodiac Room – Emergency	New fitting supplied by LDL LDL POLO D-I	As per mains powered luminaire.	As per mains powered luminaire.	As per HL6 luminaire but to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	≥80CRI 2700K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire. COUNT: 2

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HL7	New Bar	New fitting supplied by LDL LDL POLO D-I	 Image above of existing space with 6no pendants ceiling mounted.	Contemporary style fitting 3 number Wire suspended pendant 900mm diameter LED circular luminaires with up- and down-light. Opal Diffuser 	Remove existing pendants from ceiling and replace with 3 number circular LED luminaires Luminaire(s) to be surface fixed to the underside of the beams either side of the centrally positioned beam securing bolt. Bespoke finish. RAL colour to match bronze sample provided by architect.	11860lm 113W	≥80CRI 2700K	Luminaire(s) to be surface fixed to the underside of the beams centrally positioned directly below the beam securing bolt.	900mm ø 80mm	To be supplied with integral fixed output driver.	COUNT: 2
HL7E	New Bar – Emergency	New fitting supplied by LDL LDL POLO D-I	As per mains powered luminaire.	As per mains powered luminaire.	As per HL7 luminaire but to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	≥80CRI 2700K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire. COUNT: 1

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HL8	Ground and First floor corridor/ Circulation areas	Existing fitting to be modified by Great British Lighting to incorporate LED lamps.			Remove for refurbishment. Rewire and replace lamp holders for 5 numbered E27 holders Omit shades and use 5 numbered exposed Osram Vintage 1906 Caged 4-watt LED Warm White lamps.	420lm per bulb (5no)	≥80CRI 2500K	As existing	As existing	N/A	COUNT: 6
HL8E	Ground and First floor corridor/ Circulation areas	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources.	As per mains powered luminaire.	As existing	Refurbishment details as per HL8 luminaire but to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	≥80CRI 2500K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	COUNT: 7

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HL9E	First floor exhibition space	New fitting supplied by LDL LDL POLO D-I Luminaire to be run as an emergency luminaire supplied from a central battery system.		Contemporary style fitting 3 number Wire suspended pendant 900mm diameter LED circular luminaires with up- and down-light. Opal Diffuser 	Remove existing pendants from ceiling and replace with 3 number circular LED luminaires Luminaire(s) to be surface fixed to the underside of the beams either side of the centrally positioned beam securing bolt. Bespoke finish. RAL colour to match bronze sample provided by architect.	11860lm 113W	≥80CRI 2700K	Luminaire(s) to be surface fixed to the underside of the beams centrally positioned directly below the beam securing bolt.	900mm ø 80mm	To be supplied with integral fixed output driver.	COUNT: 1
HL10E	First floor Clocktower link	New fitting supplied by LDL LDL POLO D-I Luminaire to be run as an emergency luminaire supplied from a central battery system.		Contemporary style fitting 3 number Wire suspended pendant 900mm diameter LED circular luminaires with up- and down-light. Opal Diffuser 	Remove existing pendants from ceiling and replace with 3 number circular LED luminaires Luminaire(s) to be surface fixed to the underside of the beams either side of the centrally positioned beam securing bolt. Bespoke finish. RAL colour to match bronze sample provided by architect.	11860lm 113W	≥80CRI 2700K	Luminaire(s) to be surface fixed to the underside of the beams centrally positioned directly below the beam securing bolt.	900mm ø 80mm	To be supplied with integral fixed output driver.	COUNT: 1

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HL11E	Clocktower staircase lighting	Trilux Onplana D07 OTA25 2000-830 ETDD 26 6458051 Luminaire to be run as an emergency luminaire supplied from a central battery system.			Ceiling mounted. Bespoke finish. RAL colour to match bronze sample provided by architect.	2000lm 16W	3000K	Surface mounted to ceilings and underside of staircase.	234ømm x 60mm	To be supplied with integral fixed output driver.	COUNT: 12
HL12E	Spiral Staircase	Existing fitting to be modified by Great British Lighting to incorporate LED lamps. Luminaire to be run as an emergency luminaire supplied from a central battery system.		As existing	Remove for refurbishment. Rewire and replace lamp holders with E12 / E26 / E27 holders (consistent with all other refurbished fittings in the building) Provide new internal lamp holders to provide uplight and downlight.	2700lm minimum	≥80CRI 2700K	Suspended from ceiling at each floor.	As existing	N/A	COUNT: 3

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HL13	Mayors Reception Hall	Existing fitting to be modified by Great British Lighting to incorporate LED lamps.			Remove for refurbishment. Rewire and replace existing lamp holders for 6 numbered new E27 holders Omit shades and use 6 numbered exposed Osram Vintage 1906 Caged 4-watt LED Warm White lamps.	420lm per lamp (6no)	≥80CRI 2500K	As existing	As existing	N/A	COUNT: 5
HL13E	Mayors Reception Hall	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources.	As per mains powered luminaire.	As existing	Refurbishment details as per HL13 luminaire but to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	≥80CRI 2500K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire. COUNT: 5
HL14	Mayors Parlour	Existing fitting to be modified by Great British Lighting to incorporate LED lamps.		As existing in form but with new opal frosted white shades	<i>Pendant to be removed for complete refurbishment.</i> Suitably sized alternate frosted opal white Shades to be provided. All lamp holders to be replaced with new E14 lamp holders to accept new LED lamps Provide 4 spare shades.	420lm per lamp (6no) Lamps to be from Osram Vintage 1906 LED range. Specific lamp to be used; 1906 LED 36 4.5W/2500K E14	≥80Ra 2500K	As existing	As existing	N/A	Extensive cleaning of the fitting is not necessary, aged patina to be retained. COUNT: 1

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HL14E	Mayors Parlour	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources.	As per mains powered luminaire.	As existing	Refurbishment details as per HL14 luminaire but to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	≥80CRI 2500K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire. COUNT: 1
HL15	Mayors Dining Room	Existing fitting to be modified by Great British Lighting to incorporate LED lamps.		As existing but new shades selected from the Great British Lighting range.	<i>Pendant to be removed for complete refurbishment.</i> Suitably sized alternate frosted opal white Shades to be provided. All lamp holders to be replaced with new E14 lamp holders to accept new LED lamps Provide 6 spare shades.	420lm per lamp (5no) Lamps to be from Osram Vintage 1906 LED range. Specific lamp to be used; 1906 LED 36 4.5W/2500K E14	≥80Ra 2500K	As existing	As existing	N/A	 COUNT: 2
HL15E	Mayors Dining room	Existing fitting to be refurbished and suitably modified by Great British Lighting to incorporate LED light sources.	As per mains powered luminaire.	As existing	Refurbishment details as per HL15 luminaire but to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	≥80CRI 2500K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	COUNT: 2

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HL16E	Mayors Vestibule	Existing fitting to be modified by Great British Lighting to incorporate LED lamps.		As existing but new shades selected from the Great British Lighting range. The luminaire will be run as an emergency luminaire supplied from a central battery system.	<i>Pendant to be removed for complete refurbishment.</i> Suitably sized alternate frosted opal white Shades to be provided. All lamp holders to be replaced with new E14 lamp holders to accept new LED lamps. Provide 4 spare shades.	420lm per lamp (8no) Lamps to be from Osram Vintage 1906 LED range. Specific lamp to be used; 1906 LED 36 4.5W/2500K E14	≥80Ra 2500K	As existing	As existing	N/A	Extensive cleaning of fitting not necessary, aged patina to be retained. COUNT: 1
HL17E	Ground floor clocktower entrance and Mayors Entrance	New fitting to be free issued by client for installation Luminaire to be run as an emergency luminaire supplied from a central battery system.	 	Client to free issue restored antique luminaire pre-purchased from GBL		22265lm 210W	≥80CRI 2700K	Suspended from ceiling.	1500mm ø x 100mm	n/a (switched on/off)	COUNT: 2
HL18	Port Cochere	New fitting to be free issued by client for installation Luminaire to be run as an emergency luminaire supplied from a central battery system		Client to free issue restored antique luminaire pre-purchased from GBL						n/a (switched on/off)	COUNT: 2

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HL18E	Port Cochere	New fitting to be free issued by client for installation Luminaire to be run as an emergency luminaire supplied from a central battery system		Client to free issue restored antique luminaire pre-purchased from GBL						n/a (switched on/off)	COUNT: 1
HL19E	Second floor link to clocktower	New fittings LDL Millie Luminaire to be run as an emergency luminaire supplied from a central battery system.		Contemporary style very small linear extruded aluminium LED luminaire. Supplied by LDL 	Desire is to remove pendants from ceiling and replace with a continuous linear luminaire arrangement around the perimeter of the rooflight. Luminaire(s) to be surface fixed to the ceiling around the rooflight perimeter. Bespoke finish. RAL colour to match bronze sample provided by architect.	1470lm/m	≥80CRI 2700K	Luminaire(s) to be surface fixed to the ceiling around the perimeter of the rooflight.	38mm (W) 75mm (D) 7250mm (total) (L)	To be supplied with integral fixed output driver.	Luminaire(s) to be surface fixed to the ceiling around the perimeter of the rooflight. COUNT: 1

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HL20	Bright Hall	New fitting supplied by Regent Lighting. Milano Slim Round 69W Article No: 2004.2488		Contemporary style cylindrical pendant luminaire. 	Desire is to suspend 2 rows of 5no. pendants from the ceiling. Regent Lighting. Fittings to be supplied with custom brass rod and canopy.	10700lm Per luminaire. Total lumen output of 10no. luminaires = 107000lm 69W per luminaire	≥80CRI 3000K	Luminaires to be suspended from beams by rod. Setting out to architect's details.	680mmø x58mm	To be supplied with integral DALI dimmable driver.	COUNT: 7
HL20E	Bright Hall	New fitting supplied by Regent Lighting. Luminaire to be run as an emergency luminaire supplied from a central battery system.	As per mains powered luminaire.	As per mains powered luminaire.	Desire is to suspend 2 rows of 5no. pendants from the ceiling. Regent Lighting. Fittings to be supplied with custom brass rod and canopy.	As per mains powered luminaire.	≥80CRI 3000K	As per mains powered luminaire.	As per mains powered luminaire.	As per mains powered luminaire.	COUNT: 3
HL21E	Entrance Office	Existing fitting to be modified by Great British Lighting to incorporate LED lamps. Luminaire to be run as an emergency luminaire supplied from a central battery system.			Remove for refurbishment. Rewire and replace existing lamp holders for 6 numbered new E27 holders Omit shades and use 6 numbered exposed Osram Vintage 1906 Caged 4-watt LED Warm White lamps.	420lm per lamp (5no)	≥80CRI 2500K	As existing	As existing	N/A	COUNT: 1

Schedule of Luminaires
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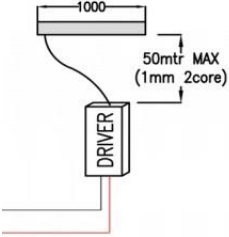
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HL22	Bright Hall	New fitting supplied by BEGA		 New fitting supplied by BEGA Prima wall-mounted luminaire 50 265.1	Wall-mounted luminaires to provide alternative ambient lighting option in Bright Hall. Bespoke finish. RAL colour of metal shield to match brass sample provided by architect.	1282lm per luminaire 24W per luminaire	3000K	Wall-mounted	354mm width 100mm Height 125mm depth	To be supplied with integral driver.	COUNT: 10
HL23	2 nd floor activity suite	New fitting supplied by Regent Milano Slim Round 15W Article No: 2004.2477		Contemporary style cylindrical pendant luminaire. Supplied by Regent 	Desire is to remove existing fittings from ceiling and replace with suspended circular luminaires. Regent Lighting. Fittings to be supplied with custom bronze finish rod and canopy.	2300lm 15W	≥80CRI 3000K	Suspended from ceiling	430mm ø x 81mm	To be supplied with integral driver.	COUNT: 8

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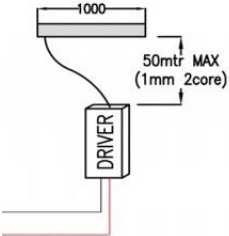
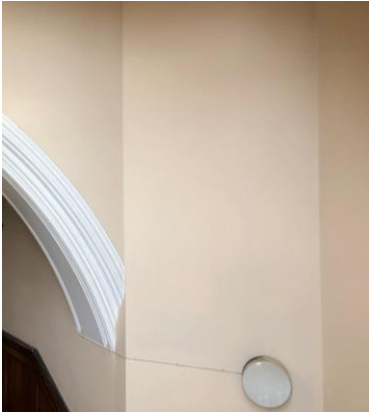
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HL23E	2 nd floor activity suites	New fitting supplied by Regent Lighting. Milano Slim Round 15W Article No: 2004.247. Luminaire to be run as an emergency luminaire supplied from a central battery system.		Contemporary style cylindrical pendant luminaire. Supplied by Regent  Milano Slim Round 15W	Desire is to remove existing fittings from ceiling and replace with suspended circular luminaires. Regent Lighting. Fittings to be supplied with custom bronze finish rod and canopy.	2300lm 15W	≥80CRI 3000K	Suspended from ceiling	430mm ø x 81mm	To be supplied with integral driver.	COUNT: 4
HL24	Spiral staircases	Kemps Lighting Zeta 40 18x48° beam TBC Cowl	-		Linear LED uplight Colour TBC. Allow for power coating to RAL colour.	4484lm 62W 72lm/W	≥80CRI 2700K	Surface mounted to stone sill Supply with 40mm vertical bracket	1200 x 40 x 40	DALI Remote 	Allow for all accessories to form a complete installation. Flex length TBC prior to ordering. Allow for circular conduit box with 3no. Y couples for cable connections. Allow for powder coating to RAL colour.
HL25	Great Hall	iGuzzini Linealuce Mini 47 Recessed EX40 WGM	-		Linear LED uplight Colour TBC. Allow for power coating to RAL	5200lm 47W	≥80CRI 2700K	Recessed into timber windowsill	1204 x 87 x 106	DALI Integral DIN rail mounted PSU	Allow for all accessories to form a complete installation.

Schedule of Luminaires
Dwg #: 6582-MXF-ZZ-ZZ-SH-E-30001 Rev C05

Rochdale Town Hall

Architect: Donald Insall Associates
Issue Status: D3 – For Construction

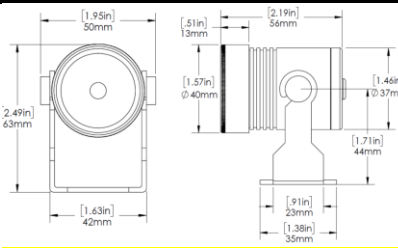
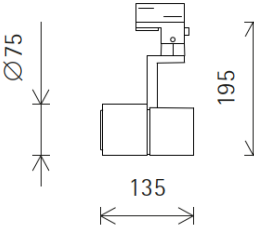
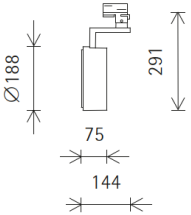
REF	LOCATION	MANUFACTURER / MODEL / REF	IMAGE OF EXISTING FITTING OR IMAGE OF SPACE FOR NEW FITTING	IMAGE OF PROPOSED FITTINGS	DESCRIPTION OF PROPOSALS	PROPOSED INITIAL LUMENS & POWER INPUT	COLOUR Ra / TEMP K	MOUNTING DETAILS	DIMS (LxWxH OR Dia x H) mm	GEAR	NOTES
HL25A	Great Hall	iGuzzini Linealuce Mini 47 Surface EL10 WGM	-		Linear LED uplight Colour TBC. Allow for power coating to RAL	5200lm 47W	≥80CRI 2700K	Surface mounted to stone sill above doors Supply with short orientable arm	1205 x 47 x 78	DALI Integral DIN rail mounted PSU	Allow for all accessories to form a complete installation. Flex length TBC prior to ordering. Allow for circular conduit box with 3no. Y couples for cable connections. Allow for powder coating to RAL colour.
HL26	Grand Staircase	Kemps Lighting Zeta 40 18x48° beam TBC Cowl	-		Linear LED uplight Colour TBC. Allow for power coating to RAL	2990lm 42W 72lm/W	≥80CRI 2700K	Surface mounted to stone sill. Supply with 40mm vertical bracket	800 x 40 x 40	DALI Remote 	Allow for all accessories to form a complete installation. Flex length TBC prior to ordering. Allow for circular conduit box with 3no. Y couples for cable connections. Allow for powder coating to RAL colour.
HL27E	Spiral staircase	New fitting supplied by Original BTC. Luminaire to be run as an emergency luminaire supplied from a central battery system.			Remove existing fittings from walls and replace with new fittings.	380lm 4.5W	2700K	Wall-mounted	150mm x 400mm	To be supplied with integral fixed output driver.	Samples in weathered brass and polished brass to be obtained and approved by architect.

Schedule of Luminaires
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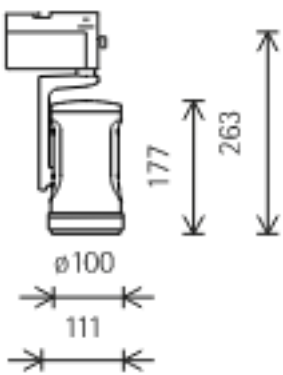
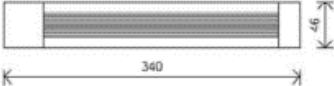
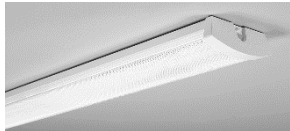
GENERAL AREA LIGHTING

REF	LOCATION	DESCRIPTION OF LUMINAIRE	MANUFACTURER / MODEL / REF	IMAGE OF PROPOSED FITTINGS	PROPOSED INITIAL LUMENS	COLOUR Ra / TEMP K	MOUNTING DETAILS	DIMS (LxWxH OR Dia x H) mm	GEAR	NOTES
L01A	Low power spots on Gargoyles	Narrow angle spot with DMX control	Gantom DMX V2 Accessories such as focusing snoots		4.8W	90Ra 2650K	Mounted on a dropped rod to a height and detail agreed with architect. Provide pre-wired without plug to allow extension wiring.		DMX input by others	
L01B	Low power spots on Gargoyles	Narrow angle spot	ERCO Parscan spotlight 26215.000 Black		620lm 6W	+90Ra 2700K	Surface mounted complete with accompanying singlet		Switched on/off	
L02	Feature flood light for Great hall ceiling	Wide angle flood	ERCO Parscan Floodlight 26129.000 Black		4930lm 48W	+90Ra 2700K	Surface mounted complete with accompanying singlet		DALI control with integral driver	

Schedule of Luminaires
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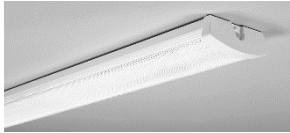
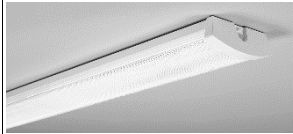
Architect: Donald Insall Associates
Issue Status: D3 – For Construction

REF	LOCATION	DESCRIPTION OF LUMINAIRE	MANUFACTURER / MODEL / REF	IMAGE OF PROPOSED FITTINGS	PROPOSED INITIAL LUMENS	COLOUR Ra / TEMP K	MOUNTING DETAILS	DIMS (LxWxH OR Dia x H) mm	GEAR	NOTES
L03	Permanent Exhibition	Track mounted spot with onboard dimmer and infinitely variable focus	Erco Eclipse Zoom spotlight with transadaptor A0021773 (white) with lens unit (lens unit TBC based on demo)		1951lm 21.7W Per spot	97CRI 3000K	Track mounted, with track recessed into the ceiling between perpendicular beams.		On board dimming 1-100%	All track systems to be c/w all track, luminaire and suspension accessories. Quantity as per layout design drawings Provide sample unit and lens options prior for demo prior to procurement to allow refinement of selection.
L03E	Permanent Exhibition	Track mounted 3hr emergency with integral inverter/battery	ERCO LED emergency unit 8400011373		109lm 3W	N/A	Track mounted, with track recessed into the ceiling between perpendicular beams. Fixed location on track.		Electronic	All track systems to be c/w all track, luminaire and suspension accessories. Quantity as per layout design drawings
L04	Back of House Staff Areas	IP 44 1200mm Linear LED luminaire	Fagerhult Lighting Art No: 33492		3000lm	≥80CRI 4000K	Surface fixed	1145mm (l) 150mm (w) 50mm (h)	Factory fitted integral driver c/w all wiring & accessories. DALI integral driver for fittings located in corridors or escape routes	Quantity as per layout design drawings

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REF	LOCATION	DESCRIPTION OF LUMINAIRE	MANUFACTURER / MODEL / REF	IMAGE OF PROPOSED FITTINGS	PROPOSED INITIAL LUMENS	COLOUR Ra / TEMP K	MOUNTING DETAILS	DIMS (LxWxH OR Dia x H) mm	GEAR	NOTES
L04E	Back of House Staff Areas	IP 44 1200mm Linear LED luminaire c/w 3H emergency battery pack	Fagerhult Lighting Art No:33492		200lm (Min)	≥80CRI 4000K	Surface fixed	1145mm (l) 150mm (w) 50mm (h)	Factory fitted integral driver c/w all wiring & accessories. DALI integral driver for fittings located in corridors or escape routes	Quantity as per layout design drawings
L05	Back of House Staff Areas	IP 44 1500mm Linear LED luminaire	LDL WPZ		3200lm	≥80CRI 3000K	Surface fixed	1500mm (l) 150mm (w) 50mm (h)	Factory fitted integral driver c/w all wiring & accessories.	Quantity as per layout design drawings
L05E	Back of House Store/Plant rooms	IP 44 1500mm Linear LED luminaire c/w 3H emergency battery pack	LDL WPZ		200lm (Min)	≥80CRI 3000K	Surface fixed	1500mm (l) 150mm (w) 50mm (h)	Factory fitted integral driver c/w all wiring & accessories.	Quantity as per layout design drawings
L06	Bar	Track mounted spot lights	Wever and Ducre Scube on Track 2.0 LED 144364W2		710lm 12W Per spot	2700K	Track mounted with track suspended from ceiling below level of beams	65mm Diameter 90mm Depth	Integral drivers	Quantity as per layout design drawings
L07	Daylight Strips in basement windows	IP 44 610mm Linear LED luminaire	Fagerhult Lighting Art No: 33512		3027lm	≥80CRI 4000K	Surface fixed	610mm (l) 150mm (w) 50mm (h)	Factory fitted integral driver c/w all wiring & accessories.	Quantity as per layout design drawings
L08	WC	Surface mounted circular luminaire	Astro Osaka LED 1061009 Polished Chrome		1048lm	80CRI 2700K	Surface mounted	350mm Diameter 95mm Depth	Factory fitted integral driver c/w all wiring & accessories.	Quantity as per layout design drawings

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L08E	WC	Surface mounted circular luminaire Emergency C/w 3hr emergency battery pack and Eaton self-contained emergency conversion kit	Astro Osaka LED 1061009 Polished Chrome		1048lm	80CRI 2700K	Surface mounted	350mm Diameter 95mm Depth	Factory fitted integral driver c/w all wiring & accessories.	Quantity as per layout design drawings
L11	Bar Pendant	Zkye 55 Pendant type luminaire	Fagerhult Lighting Art No: 84041		934lm	≥80CRI 2700K	Fixed to the underside of the over-bar bulkhead	70mm Diameter 242mm Height Can be suspended up to 2500mm	Factory fitted integral driver c/w all wiring & accessories.	Quantity as per layout design drawings
L12	Kitchen	600x600 LED lamp	LDL Louis Surface		4700lm 40W	3000K >80CRI	Surface mounted	600x600	Factory fitted integral driver c/w all wiring & accessories.	Quantity as per layout design drawings
L12E	Kitchen	600x600 LED lamp emergency	LDL Louis Surface Self-Contained Emergency		4700lm 40W	3000K >80CRI	Surface mounted	600x600	Factory fitted integral driver c/w all wiring & accessories.	Quantity as per layout design drawings

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L13E	As indicated	Emergency Escape Lighting	LDL EMD-SF Central battery version		600lm 6W	TBC	Luminaires to be surface mounted	TBC	Electronic	Quantity as per layout design drawings
L14E	As indicated	Emergency Escape Lighting	LDL EMD-SF Central battery version		600lm 6W	TBC	Luminaires to be surface mounted	TBC	Electronic	Quantity as per layout design drawings
L15	Conservation Workshop	Functional surface-mounted batten for 2 TL-D lamps	Fitting: Philips Lineco TMS022 2xTL-D + trough reflector Lamp: 2xPhilips Master TL-D 90 De Luxe 58W/965		4550lm	≥90 CRI 6500K	Ceiling Mounted	1525mm x 58mm x 62mm	Electronic Gear (Philips)	Quantity as per layout design drawings
L16E	2 nd floor office	New fitting	LDL NOMA Direct/indirect pendant RAL colour to be bronze as per architects requirements		3600lm 26W	≥80CRI 3000K	Suspended from ceiling	450mm ø x 92mm	Integrated DALI dimmable driver	Fittings to be supplied with custom RAL finish
L16E	2 nd floor office	New fitting Luminaire to be run as an emergency luminaire supplied from a central battery system.	LDL NOMA Direct/indirect pendant RAL colour to be bronze as per architects requirements		3600lm 26W	≥80CRI 3000K	Suspended from ceiling	450mm ø x 92mm	Integrated DALI dimmable driver	Fittings to be supplied with custom RAL finish

Schedule of Luminaires
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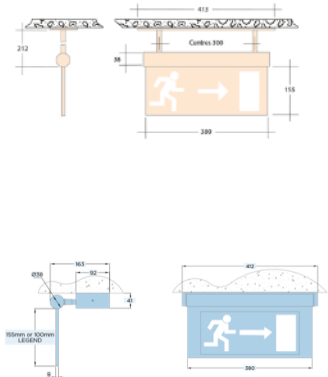
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L17	Circulation areas	Ceiling mounted circular luminaire	LDL NOMA surface mounted RAL colour to be bronze as per architects requirements		3600lm 26W	≥80CRI 3000K	Surface mounted onto ceiling		Integrated DALI driver.	
L17E	Circulation areas	Ceiling mounted circular luminaire Ceiling mounted circular luminaire c/w integral 3HR emergency battery pack	LDL NOMA surface mounted RAL colour to be bronze as per architects requirements		3600lm 26W	≥80CRI 3000K	Surface mounted onto ceiling		Integrated DALI driver.	
L18	Great hall	Lighting for mural painting	Fitting to be free issued by Lancashire Conservation. Fitting to be installed by Electrical Contractor.							
L19E	Clocktower Staircase	Wall mounted bulkhead with concealed rear cable entry With 7W LED lamp	Industville 8" round bulkhead with ribbed glass		720lm	2700K	Wall mounted, rear entry with concealed cable runs chased into plaster wall build up.		On/off switchable – fed from central battery for emergency lighting	https://www.industvill.co.uk/products/bulkhead-outdoor-bathroom-round-light-8-inch-black?nosto=productpage-nosto-5-copy-copy-1-fallback-nosto-1 with https://www.industvill.co.uk/products/vintage-led-edison-bulb-old-filament-lamp-7w-e27-classic-a60

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		Emergency exit signage	Philip Payne 250MCRVLA and 300CBLPLA		N/A	N/A	250MCRV to be used in rooms where ceiling mounting in possible. In rooms where this is not possible, 300LP to be used instead and mounted horizontally. Exact mounting arrangements for each sign to be confirmed by site visit.		To be supplied from central battery.	Polished chrome, polished brass or penny bronze finish option, dependent on which room the signage is to be installed. To be confirmed with architect.

MAX FORDHAM

Rochdale Town Hall

Architect: **Donald Insall Associates**
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EXTERNAL LIGHTING

REF	LOCATION	MANUFACTURER / MODEL / REF	IMAGE OF PROPOSED FITTINGS	DESCRIPTION OF PROPOSALS	PROPOSED INITIAL LUMENS & POWER INPUT	COLOUR Ra / TEMP K	MOUNTING DETAILS	DIMS (LxWxH OR Dia x H) mm	GEAR	NOTES
LX1	Front Façade and Terraces	LDL / iGuzzini Linea UB92 Anti-glare film		Linear inground LED IP67 Colour TBC by landscape architect Allow for power coating to RAL	4450lm 34W 141lm/W	≥80CRI 2700K	Ground recessed	1204 x 87 x 106	DALI Integral	Allow for all accessories to form a complete installation. Allowance to be made for drainage. Refer to manufacturers’ information.
LX2	Front Façade	LDL / iGuzzini Linea UB91 Anti-glare film		Linear inground LED IP67 Colour TBC by landscape architect Allow for power coating to RAL	3350lm 26W 138lm/W	≥80CRI 2700K	Ground recessed	907 x 87 x 106	DALI Integral	Allow for all accessories to form a complete installation. Allowance to be made for drainage. Refer to manufacturers’ information.
LX3	Great Hall Front Façade And Clocktower	LDL / iGuzzini Linea UB92 Anti-glare film		Linear inground LED IP67 Colour TBC by landscape architect Allow for power coating to RAL	4450lm 34W 141lm/W	≥80CRI 2700K	Ground recessed	1204 x 87 x 106	DALI Integral	Allow for all accessories to form a complete installation. Allowance to be made for drainage. Refer to manufacturers’ information.
LX4	Great Hall Rear Courtyard Elevations	LDL / iGuzzini Linea UB92 Anti-glare film		Linear inground LED IP67 Colour TBC by landscape architect Allow for power coating to RAL	4450lm 34W 141lm/W	≥80CRI 2700K	Ground recessed	1204 x 87 x 106	DALI Integral	Allow for all accessories to form a complete installation. Allowance to be made for drainage. Refer to manufacturers’ information.
LX5	Front façade balconies	LDL / iGuzzini Linea EJ20 Anti-glare film		Linear surface mounted LED IP66 Colour TBC by landscape architect Allow for power coating to RAL	5200lm 41W 126lm/W	≥80CRI 2700K	Surface fixed to façade. Adjustable bracket	1205 x 47 x 83 Without bracket	DALI Integral	Allow for all accessories to form a complete surface mounted installation.
LX6	Porte Cochere balcony	LDL / iGuzzini Linea EJ20 Anti-glare film		Linear surface mounted LED IP66 Colour TBC by landscape architect Allow for power coating to RAL	5200lm 41W 126lm/W	≥80CRI 2700K	Surface fixed to façade. Adjustable bracket	1205 x 47 x 83 Without bracket	DALI Integral	Allow for all accessories to form a complete surface mounted installation.

Schedule of Luminaires
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LX7	Door Arches in Terraces	iGuzzini Light Up Walk Professional Circular inground Tilt +/-15° Spot beam		Inground adjustable LED uplighter Colour TBC by landscape architect Allow for power coating to RAL	704lm 14.3W 49lm/W	≥80CRI 2700K	Recessed in York stone paving	312DIA x 124 Inground sleeve 397DIA x 125	DALI DIN rail mounted DALI dimmable PSU	Allow for all accessories to form a complete installation. Allowance to be made for drainage. Refer to manufacturers' information.
LX8	Rear Café Terrace	LDL / iGuzzini Light Up Earth Flush ER125 with 2700K Spot beam Tilt		Inground adjustable LED uplighter Colour TBC by landscape architect Allow for power coating to RAL	560lm 8.8W	≥80CRI 2700K	Recessed in York stone paving	144 DIA Inground sleeve	DALI DIN rail mounted DALI dimmable PSU	Allow for all accessories to form a complete installation. Allowance to be made for drainage. Refer to manufacturers' information.
LX9	Porte Cochere	LDL / iGuzzini Light Up Earth Flush ER125 with 2700K Spot beam Tilt		Inground adjustable LED uplighter Colour TBC by landscape architect Allow for power coating to RAL	560lm 8.8W	≥80CRI 2700K	Recessed in York stone paving	144 DIA Inground sleeve	DALI Integral	Allow for all accessories to form a complete installation. Allowance to be made for drainage. Refer to manufacturers' information.
LX10	Rear Courtyards	Performance iN Lighting Focus+1 A/W 305099		Floodlight Colour TBC landscape architect	1680 18W 93lm/W	≥70CRI 3000K	Surface mounted to wall	160 x 223 x 43	Switched Integral	Where indicated with suffix 'E' fed from central battery. Allow for remote changeover relay providing changeover from switched mains supply to emergency supply. To be positioned in accessible location inside the building. Allow for all accessories to form a complete installation.

MAX FORDHAM

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LX11	Rear Courtyard	Performance iN Lighting Quasar 10 1WB 303356		Wall mounted light Colour TBC by architect	150 3.5W 43lm/W	≥80CRI 3000K	Surface mounted to wall	100 x 100 x 100	Switched Integral	Where indicated with suffix 'E' fed from central battery. Allow for remote changeover relay providing changeover from switched mains supply to emergency supply. To be positioned in accessible location inside the building. Allow for all accessories to form a complete installation.
LX12	Front Façade Colonnade	LDL / iGuzzini Linea EJ20 Anti-glare film		Linear surface mounted LED IP66 Colour TBC by landscape architect Allow for power coating to RAL	5200lm 41W 126lm/W	≥80CRI 2700K	Surface fixed to façade. Adjustable bracket	1205 x 47 x 83 Without bracket	DALI Integral	Allow for all accessories to form a complete surface mounted installation.
LX13	Porte Cochere balcony	LDL / iGuzzini Linea EJ18 Anti-glare film		Linear surface mounted LED IP66 Colour TBC by landscape architect Allow for power coating to RAL	2600lm 21W 123lm/W	≥80CRI 2700K	Surface fixed to façade. Adjustable bracket	611 x 47 x 83 Without bracket	DALI Integral	Allow for all accessories to form a complete surface mounted installation.
LX14	Great Hall Roof to illuminate Fleche	Iguzzini Palco InOut EF37		Roof mounted flood with variable focus Provide with 10° Spot optic. Provide in grey (colour 15)	2000lm 18W 66l/mW	80CRI 3000K	Surface mounted	137Ø	DALI	

Schedule of Luminaires
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Notes

1. All luminaires, including bespoke luminaires are to be constructed to meet the requirements of BS EN 60598-1.
2. All emergency luminaires are to be constructed to meet the requirements of BS EN 60598-2-22 (in addition to BS EN 60598-1)
3. Contractor to ensure that the catalogue number is consistent with the description prior to order.
4. Contractor to ensure that quantities of equipment are consistent with Architects layout.
5. All items identified as 'contractor to choose' – contractor required to submit proposals to the Architect/Engineer a minimum of 2 weeks prior to placing an order.
6. All connected non-linear loads below 16A per phase (3.7kW single phase, 11kW three phase) must comply with the harmonic emission limits given in BSEN:61000-3-2.
7. All connected non-linear loads above 16A per phase (3.7kW single phase, 11kW three phase) must comply with the harmonic emission limits given in BSEN:61000-3-4.
8. Switching of emergency circuits is shown on schematic.
9. Emergency conversion is to be carried out in accordance with ICEL 1004 by an approved supplier, to comply with BS EN 60598-2-22:1999.
10. All light fittings and gear must have a minimum power factor of 0.9.
11. Contractor to provide samples of all fittings
12. All Lighting control gear / ballasts to operate safely on 230V +10%/-6% unless otherwise indicated. Contractor to verify & confirm compliance prior to ordering & installation on site.

Rev	Date	Status	Description	Engineer	Project Leader
P01	19/03/20	For Information	For Information	IJS	IJS
P02	10/02/21	D2 - For Tender	For Tender	CH	IJS
P03	26/04/21	D2 - For Tender	Tender update - Revised as highlighted	DF	IJS
P03	10/02/22	D3	For Contract	IJS	IJS
C03	04/03/22	D3	For Construction	IJS	IJS
C04	26/05/2022	D3	For Construction	IJS	IJS
C05	27/10/22	D3	For Construction	IJS	IJS

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