

Landlord External Lighting – Technical Submittal

Project: Rochdale Riverside – Apartment Blocks 3 &4
Project No: MC1164
TSM No: RR2-AME-XX-XX-TS-E-0006
Revision: P02
Date: 18th August 2022
Approval Period: 2 weeks
Notes: To be read in conjunction with Ameon layout drawings.

Revision 1 Notes:

Added technical data for recessed luminaire used in canopy (B3)

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Technical drawings / Manufacturers Drawings:

For locations and positions of luminaires please refer to Ameen external lighting elevation drawings:

- RR2-AME-B3-00-DR-E-63010
- RR2-AME-B4-00-DR-E-63011

Final setting out and coordination of luminaires and finishes to be coordinated by the architect.

Manufacturers dimensions appended to this document.

All lamps to be of 4000k colour temperature

Full description of controls and sequence of operations:

External luminaires are to be controlled by a 2 zone timeclock and photocell mounted on a northerly facing facade for each building. Building mounted lighting are independently controlled from their own system and there is no connection to any other installations.

Manufacturers material and workmanship specifications including paint finish and RAL colour:

Refer to data sheets within this technical submission.

Performance schedules:

Luminaire selections and external lighting levels to be confirmed via separate technical submission for the lighting calculations.

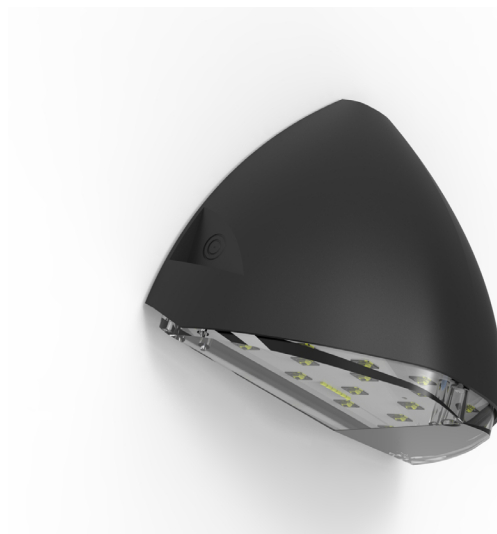
From the TACE specification: lighting will be designed to incorporate energy efficient luminaires and an automatic lighting control system utilising daylight sensors and time clock control to ensure energy efficient operation of the lighting.

External lighting lux levels to be designed in accordance with CIBSE lux levels.

Design achieves requirements outlined by Secure By Design and requirements highlighted in the projects CIS Rev B.

Manufacturers Installation:

N/A



Description

The Finn is a highly efficient modern minimalistic designed wall pack with a range of optics and emergency options.

Specification Text

The luminaire shall be manufactured from high pressure die-cast aluminium. It shall have an LED efficacy of up to 131 lm/W and will be capable of producing up to 3500 luminaire lumens at 4000K with a CRI >80. It shall be rated at IP65 and IK10.

Benefits

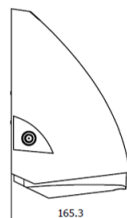
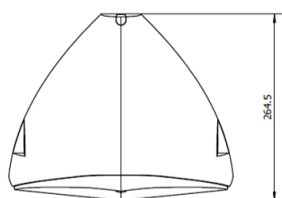
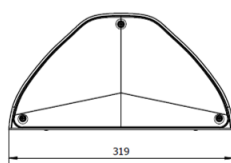
- Tough IP65 and IK10 construction
- Pathway / Open area / Asymmetrical distribution
- DALI driver optional
- 5-year Warranty

Technical Features

Voltage	220-240Vac
Wattage	8 - 28W
Colour	RAL7016 / RAL9002
Luminaire Lumens	1012 - 3500
Efficacy	Up to 131lm/W
Colour Temperature	2700, 3000 - 4000K (4000K standard)
CRI	>80

Life	>60,000 hrs L80
Dimming	Dali optional
Surge Protection	10KV
Operating Temp	-20 to +40°C
Accessories	Photocell / Smart wireless control / Emergency
Applications	Urban, retail, education, and car parks

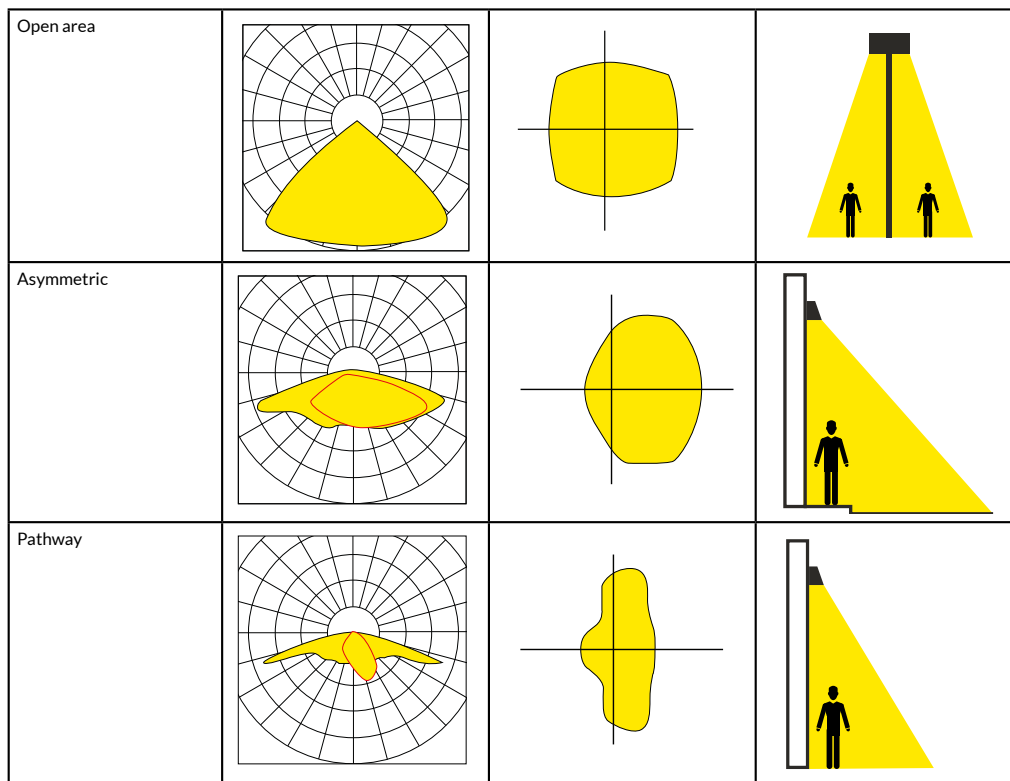
Dimensions



Pathway 8 - 15W
Lumen output 1012 - 1746
Weight 2.35kg Standard
Weight 2.5kg Emergency

Open area 13/18/28
Lumen output 1700 - 3500
Weight 2.35kg Standard
Weight 2.5kg Emergency

Optics



Smart Design

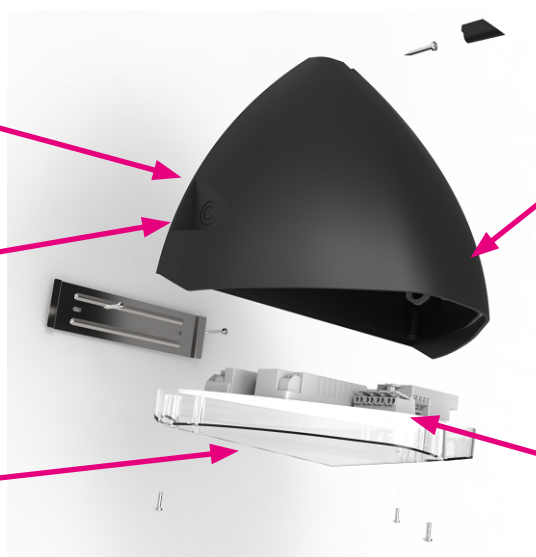
Modern and minimalist design, screw-less from front

Suitable for rear and side cable entry

High quality Samsung LED's

Suitable for conduit and BESA box installation

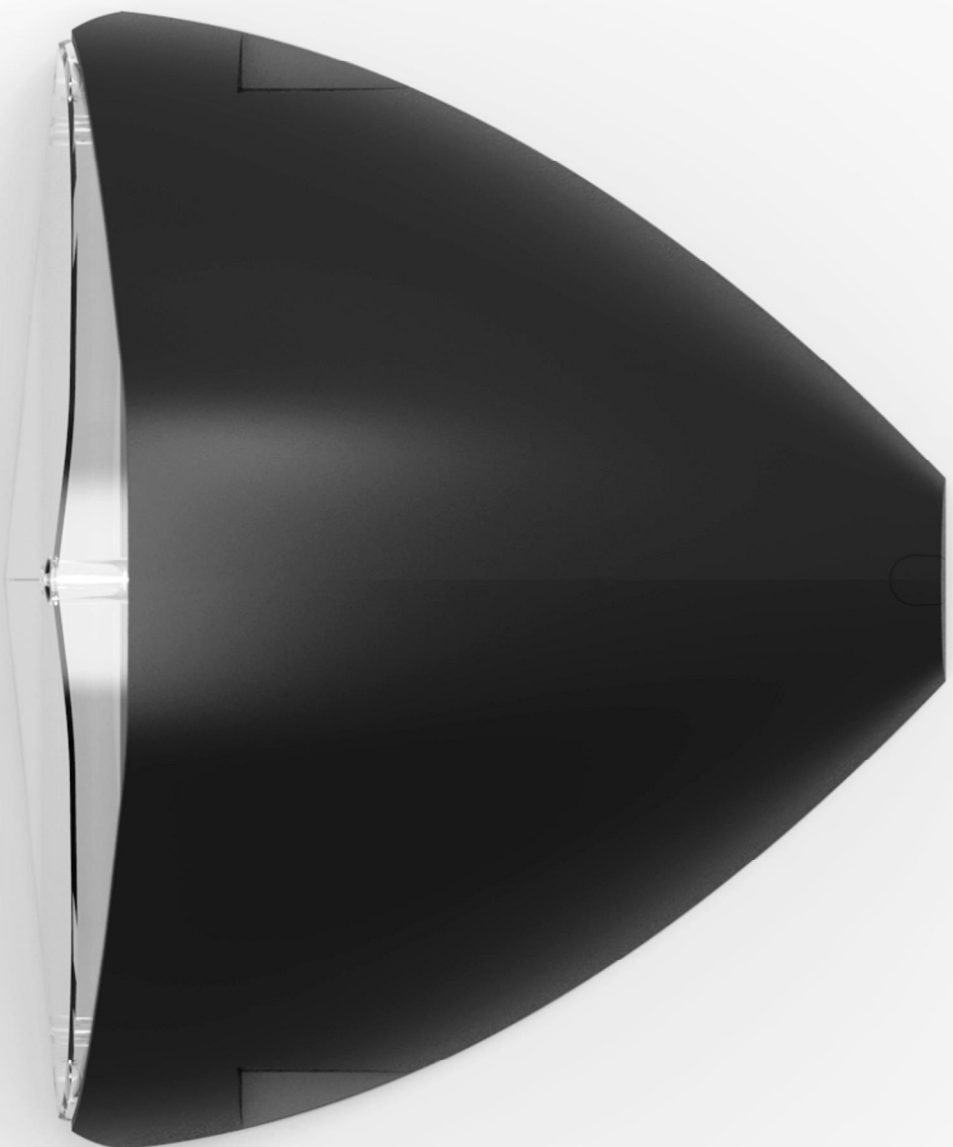
PCB integrated with diffuser for easy installation



Part Code

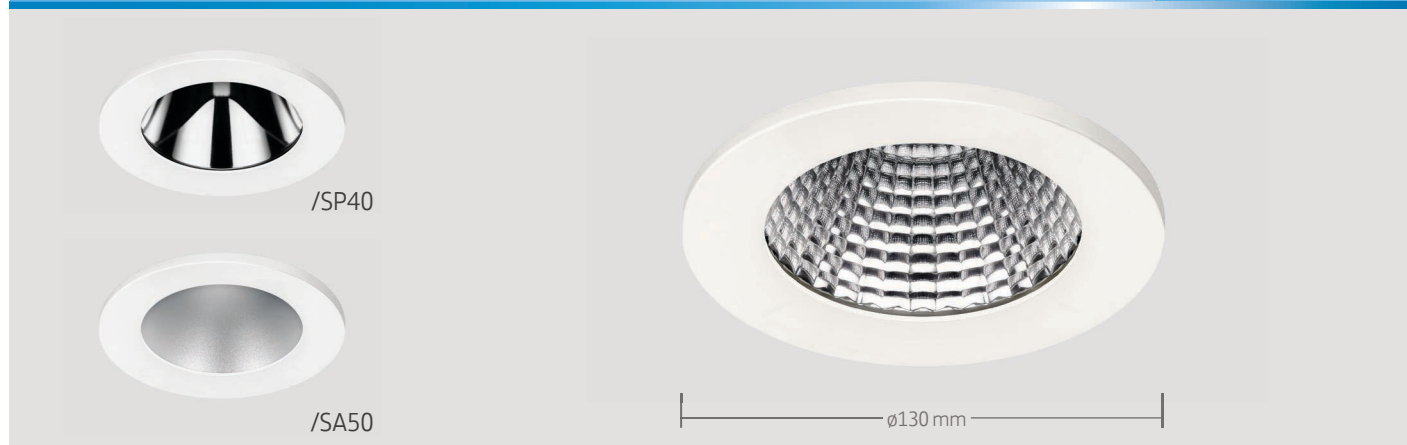
Code		FN		FINN	
Code	Wattage	Lumens +/- 5%			
013	13W	1,700			
018	18W	2,353		Open area/	
028	28W	3,500		Asymmetric	
008	8W				
015	15W			Pathway	
Code	Colour Temp				
2.7K	2700K				
3K	3000K				
4K	4000K				
Code Optic					
OA	Open Area				
AS	Asymmetric				
PW	Pathway				
Code	Colour				
A	RAL7016				
GR	RAL 9002				
C	Custom colour (Available upon request)				
Code					
E	Emergency				
Code	Accessories				
N/A	N/A				
P	Photo Cell				
D	DALI				
W	Wireless Communication				
Example	FN	028	4K	OA	A
					E
					P





78 Series Datasheet

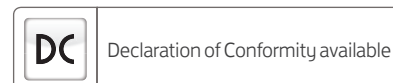
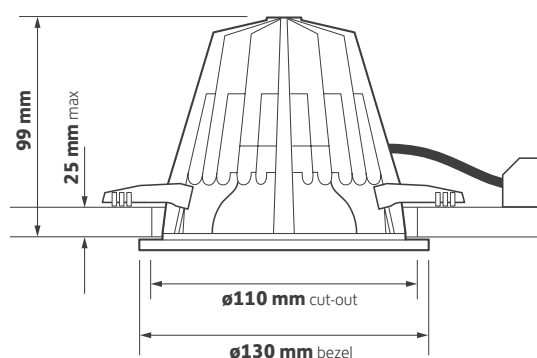
PHILIPS
TECHNOLOGY
INSIDE



Key Features

- ▶ Professional downlight with a wide choice of options
- ▶ Incorporates Philips LED module and driver system
- ▶ Multi-faceted 40° reflector supplied as standard
- ▶ Height under 100 mm using optimised passive thermodynamics
- ▶ Premium White Ra90 LED module as standard
- ▶ Life >50,000h L70/B10
- ▶ Low glare UGR <19
- ▶ ECA and Part L compliant variants
- ▶ 5 year warranty

Technical Drawing



Ordering Information

Output lm	Power tcW	Colour	Model Ref.
625	6	930	78.801
675	6	940	78.802
1150	12	930	78.1101
1250	12	940	78.1102
1800	18	930	78.2001
1925	18	940	78.2002
2425	27	930	78.3001
2600	27	940	78.3002
3250	32	930	78.4001
3500	32	940	78.4002
4600	48	930	78.6001
4950	48	940	78.6002

Options

Please select from the options below.

TA200 bezel options	/BWH, /WH, /CH, /GY, /BL
25° Multi-faceted	/MF25
60° Multi-faceted *	/MF60
40° Specular	/SP40
50° Satin	/SA50
Touch dimming / DALI	/T+DALI
Bluetooth wireless control (inc dim)	/BTC
Emergency (remote indicator)	/EM
DALI Emergency (remote indicator)	/EMD
Emergency integral indicator	/EMI
DALI Emergency integral indicator	/EMDI

*Not available on 78.400x and 78.600x

78 Series Options and Accessories

Options



TA200/WH
White bezel - RAL9010



TA200/CH
Chrome bezel



TA200/GY
Grey bezel - RAL9006



TA200/BL
Black bezel - RAL9005



TA200/BWH
Brilliant white bezel - RAL9016



TA225/WH
White bezel drop clear halo



TA226/WH
White bezel drop opal halo



AT200/WH
White anti-tamper bezel



IP65/001/130
IP65 bezel clear poly



/T+DALI
Touch dimming / DALI



/BTC
Casambi Bluetooth wireless network
(inc dim)



/MF25
25° Multi-faceted reflector



/SP40
40° Specular reflector



/SA50
50° Satin reflector



/MF60
60° Multi-faceted reflector



/EM
3h EM conversion
c/w remote indicator



/EMD
3h DALI / ST EM conversion
c/w remote indicator



/EMI
3h EM conversion
c/w integral indicator



/EMDI
3h DALI / ST EM conversion
c/w integral indicator

78 Series Options and Accessories

Accessories



TA220/FROST
Frosted hi-light



TA220/BUE
Blue hi-light



TA210/BLACK
Black snoot



TA210/FROST
Frosted snoot



TA210/BUE
Blue snoot



TA208
Kick reflector



TA240
IP54 Clear glass



TA241
IP54 Centre etched glass



TA242
IP54 Fully etched glass



PI200
Installed kit and fitting. Please see
PI200 datasheet for details.



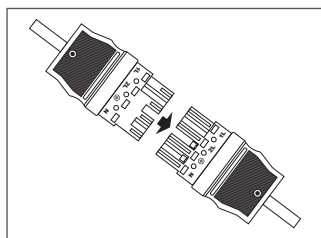
PI200
Plaster-in kit. Please see PI200
datasheet for details.



HALOKIT.001
Halo kit - maximum cut-out 150 mm



GF208 / GF218
Anti-tamper driver / Anti-tamper bit



Product variations
Plug and Sockets

Schedule							
Symbol	Label	Quantity	Manufacturer	Catalogue Number	Description	Number Lamps	Lumens Per Lamp
	A	8	Lighting Project Solutions	PN15w/40c/wA	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	1746
	A2	9	Lighting Project Solutions	PN15w/40c/wA	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	1746
	A2/E	10	Lighting Project Solutions	PN15w/40c/wA	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	1746
	AE	12	Lighting Project Solutions	PN15w/40c/wA	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	1746
	B	0	Lighting Project Solutions	WUE 040 740 L22 A0010	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	5290
	C	5	Lighting Project Solutions	WUE 040 740 L22 A0010	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	5290
	D	4	Lighting Project Solutions	WUE 038 740 L35 A0009	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	4313
	D2	1	Lighting Project Solutions	WUE 038 740 L35 A0009	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	4313
	B2	2	Lighting Project Solutions	WUE 040 740 L22 A0010	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	5290
	E	1	Lighting Project Solutions	WUE 038 740 L35 A0009	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, 395x 315x 115	1	4313
	F	4	Lighting Project Solutions	78 Series	78 Series Downlighter 4.2 560 lumens	1	560

Statistics						
Description	Symbol	Avg	Max	Min	Min/Avg	
Plaza 2	+	27 lux	76 lux	8 lux	0.30	
Plaza 2 Seating Area	+	29 lux	58 lux	11 lux	0.38	
B4 East exit	+	22 lux	26 lux	17 lux	0.77	
Block B3	+	29 lux	101 lux	8 lux	0.28	
Bin store	+	25 lux	27 lux	21 lux	0.84	
Cycle Top / North B3	+	20 lux	40 lux	6 lux	0.30	
Disabled Parking	+	33 lux	49 lux	21 lux	0.64	
Hilton Noth/East Side	+	19 lux	46 lux	6 lux	0.32	
Hilton Ramp	+	27 lux	40 lux	19 lux	0.70	
Hilton Seating Area	+	33 lux	45 lux	15 lux	0.45	
North B4	+	22 lux	41 lux	8 lux	0.36	
Plaza 1	+	21 lux	115 lux	6 lux	0.29	
Plaza 2 Open space	+	25 lux	77 lux	8 lux	0.32	
Rear Road	+	23 lux	50 lux	7 lux	0.30	
B3 steps	+	22 lux	28 lux	15 lux	0.68	
B4 East	+	20 lux	42 lux	5 lux	0.25	
B4 South	+	24 lux	41 lux	10 lux	0.42	
B4 Step	+	28 lux	33 lux	21 lux	0.75	
Hilton South Steps	+	22 lux	26 lux	17 lux	0.77	
Hilton Steps	+	52 lux	61 lux	40 lux	0.77	
Hilton Canopy	+	43 lux	119 lux	11 lux	0.26	



Plan View
Scale - 1 : 299.9999