



Kingfisher
Lighting

47303 - Starbucks,
Reading Link Retail Park,
Reading

Kingfisherlighting.com

STREET • AMENITY • ARCHITECTURAL • AREA

FAO Rosalind Graham

Solve Planning
Cheyenne House
West Street
Farnham
Surrey
GU9 7EQ

Wednesday, 22 March 2023

RE – 47303 - Starbucks, Reading Link Retail Park, Reading

Dear Rosalind,

Please find attached drawing and quote for 47303 - Starbucks, Reading Link Retail Park, Reading.
As requested, I have reduced the drive through levels from 30 Ave lux to 20 Ave lux thereby reducing the ground level light spill along the Holy Brook river bank to 0.5 lux. I have also moved the vertical calculation closer to where the water edge is illustrated on the plan. The maximum level to the vertical calculation is 1 lux.

The levels are as follows: -

Access Road 20 Ave lux with 0.4 uniformity.
Bin Store 10 Ave lux with 0.4 uniformity
Disabled Car Park 30 Ave lux with 0.4 uniformity.
Drive Thru 20 Ave lux with 0.4 uniformity.
Pedestrian Areas 10 lux with 0.25 uniformity.
Extended Car Park Area 5 Ave lux with 0.25 uniformity.

We trust that the above information is satisfactory. If you have any further questions, please don't hesitate to contact me on either 01623 415 900 or projectdesign@kingfisherlighting.com

Yours sincerely

Patrick Murphy
Lighting Design Engineer



BREEAM New Construction 2018 (UK)

47303 Starbucks, Reading Link Retail Park, Rose Kiln Lane, Reading

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumen (lm)	Width (W)	Length (L)	LCR	Total Lumens	UOR	Upward Lumens	CRI	** AET Hour Per Day	CO ₂ (Tonnes)	Kwh/Year
4000	1	Viva City PRO	60w LED PWT0	8760	60	146.00	100%	8760	0.0%	0	>90	12	0.06	262.30
4000	2	Address Urban	20w LED	2347	20	107.35	100%	4694	40.2%	1726	>90	12	0.04	175.20
4000	2	Viva City PRO	40w LED PWT0	4376	40	114.40	100%	8752	0.0%	0	>90	12	0.07	350.40
4000	2	Viva City PRO	40w LED AYB70	3323	40	88.08	100%	6646	0.0%	0	>90	12	0.07	350.40
4000	2	Viva City PRO	40w LED AY70	5927	40	146.18	100%	11854	0.0%	0	>90	12	0.07	350.40

GNB - 2015

Table 1 Compliance

Environmental Zone

Sky Glow

Source Intensity (Candelas)

Light Trespass into Windows (Lux)

Building Luminance (cd/m²)

Table 1 Compliance

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Symbol	Qty	Label	Arrangement	LLF	Description
1	1	B	SINGLE	0.900	60w LED 2700K Viva City Pro 610mA with FWT0 Optic Column mounted 6m
2	2	C	SINGLE	0.900	20w LED 3000K Address 2.0 bulkhead with hood Fence mounted 2.5m TBC
2	2	F(ss)	SINGLE	0.900	40w LED 2700K Viva City Pro 804mA with Internal Spill Shield AYB70 Optic & Bolt on spill shield Column mounted 6m
1	1	G(ss)	SINGLE	0.900	40w LED 2700K Viva City Pro 804mA with Internal Spill Shield AYB70 Optic & Bolt on spill shield Column mounted 6m
2	2	H	SINGLE	0.900	40w LED 2700K Viva City Pro 805mA with AY70 Optic Column mounted 6m

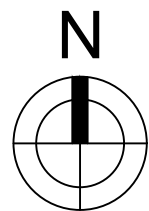
Calculation Summary	CalcType	Units	Avg	Max	Min	Uniformity	Diversity
Access Road	Illuminance	Lux	20.31	49	10	0.49	0.20
Bin Store	Illuminance	Lux	35.86	56	18	0.46	0.32
Disabled Car Park	Illuminance	Lux	31.11	39	21	0.68	0.54
Drive Thru	Illuminance	Lux	20.10	40	8	0.40	0.20
Frederation Areas	Illuminance	Lux	15.17	44	5	0.29	0.11
Car Park Area TBC	Illuminance	Lux	6.25	18	2	0.32	0.11
ObtrusiveLight Properties East_C	Obtrusive - Cd	N.A.	267.98	582	18	0.07	0.03
ObtrusiveLight Holy Brook_Cd_Seg	Obtrusive - Cd	N.A.	125.34	761	0	0.00	0.00
ObtrusiveLight Properties North_	Obtrusive - Cd	N.A.	107.64	583	2	0.02	0.00
ObtrusiveLight Properties North_	Obtrusive - Cd	N.A.	11.99	45	0	0.00	0.00
ObtrusiveLight Properties North_	Obtrusive - Cd	N.A.	1.84	38	0	0.00	0.00
ObtrusiveLight Properties North_	Obtrusive - Cd	N.A.	25.84	94	0	0.00	0.00
ObtrusiveLight Properties East_J	Obtrusive - H	Lux	0.03	1	0	0.00	0.00
ObtrusiveLight Holy Brook_H_Se	Obtrusive - H	Lux	0.09	1	0	0.00	0.00
ObtrusiveLight Properties North_	Obtrusive - H	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Properties North_	Obtrusive - H	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Properties North_	Obtrusive - H	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Properties North_	Obtrusive - H	Lux	0.00	0	0	N.A.	N.A.



Ref B, F, F, H



Ref C



Starbucks, Reading Link Retail Park, Rose Kiln Lane, Reading

Scale

1:200 at A1

Project Number

D47303D

Date

22 March 2023

Drawing No.

D47303/PMU/D

Lighting Designer : P.Murphy

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavor is made for accuracy from information provided by yourselves, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.

Datasheet



Alfresco Urban

Product Description

The design for Alfresco Urban is simple and classic and it will suit most wall mounted applications.

Specification Text

The luminaire shall be manufactured from high-pressure die-cast aluminium. It shall have an LED efficacy of up to 107.0 lm/W and will be capable of producing up to 2,147 luminaire lumens at 4000K with a CRI >80. It shall have an asymmetric forward throw optic and is rated at IP65 and IK08.

Specification

Weight: 2.4 - 2.8kg

Material: Die-cast Aluminium

Paint finish: RAL7016 Anthracite Grey Finish

Key Features

- 20.0W
- 2,147 Luminaire Lumens
- Efficacy up to 107 lm/W
- 4000K, CRI >80
- Lifetime >50,000hr, L70



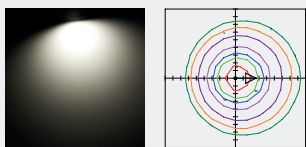
Mounting Options

- Wall Mount

Other Options

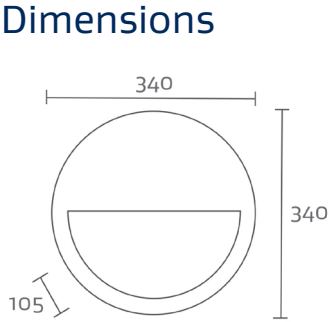
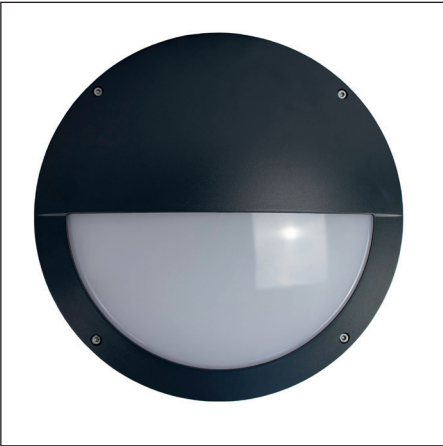
- Colour Temperature Options
 - Photocell Option
 - Emergency Option
- [Contact for details](#)

Optics



Asymmetrical 180 x 90°

Code	Power	Luminaire Lumens	Drive Current	Optic	CCT(K)	IP	IK	Weight kg	Paint Finish	Driver Included
ALFH20F	20.0	2,147	500	Asymmetrical 180 x 90°	4000	IP65	IK08	2.5	RAL7016 Anthracite Grey	Driver Inc
ALFH20FEM	20.0	2,147	500		4000	IP65	IK08	2.5	RAL7016 Anthracite Grey	Driver Inc
ALFH20FEMPEC	20.0	2,147	500		4000	IP65	IK08	2.5	RAL7016 Anthracite Grey	Driver Inc
ALFH20FPEC	20.0	2,147	500		4000	IP65	IK08	2.5	RAL7016 Anthracite Grey	Driver Inc



Datasheet

Viva-City Pro

With Integral Spill Shield



Product Description

A modular, slimline, performance street lantern with integral spill shield. Viva-City Pro offers a choice of optics with asymmetrical distribution including an area optic.

Specification Text

The luminaire shall be manufactured from high-pressure die-cast aluminium. It shall have an LED efficacy of up to 155.0 lm/W and will be capable of producing up to 19,136 luminaire lumens at 4000K with a CRI >70. It shall have an asymmetric forward throw optic and is rated at IP66 and IK08.

Specify 2700K for IDA compliance.

Specification

Weight: 4.5 - 9.1kg

Windage: 0.04m²

Material: Die-cast Aluminium

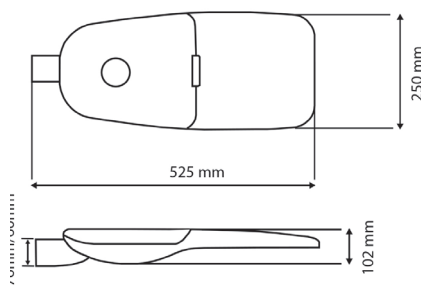
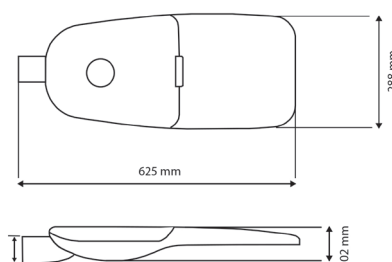
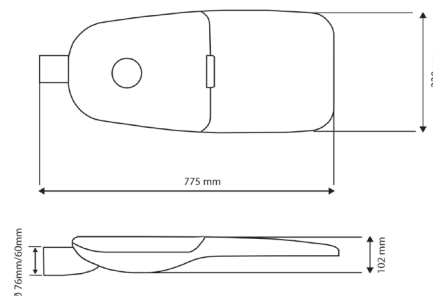
Paint finish: RAL7016 Anthracite Grey Finish

Key Features

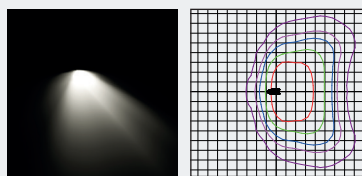
- 15.0 - 180.0W
- 1,341 - 19,136 Luminaire Lumens
- Efficacy up to 155.0 lm/W
- 4000K, CRI >70
- Lifetime >100,000hr, L80



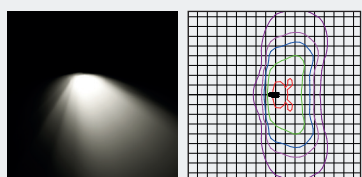
Dimensions



Optics



AWB70



FWB70



Code	Power	Luminaire Lumens	Drive Current	Optic	CCT(K)	IP	IK	Weight kg	Paint Finish	Driver Included	Driver Type
VCYP-FWB70-4.3-15DSHIELD	15.0	1,746	640	Asymmetrical Forward Throw Optic - 70°	4000	IP66	IK08	4.5	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-FWB70-4.8-40DSHIELD	40.0	4,576	640		4000	IP66	IK08	4.6	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-FWB70-4.6-60DSHIELD	60.0	6,798	805		4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-FWB70-4.8-80DSHIELD	80.0	8,567	805		4000	IP66	IK08	6.1	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-FWB70-4.6-120DSHIELD	120.0	13,782	610		4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-FWB70-4.8-180DSHIELD	180.0	19,136	610	Asymmetrical Street Optic Wide - 70°	4000	IP66	IK08	6.1	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-AYB70-4.3-15DSHIELD	15.0	1,341	805		4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-AYB70-4.8-40DSHIELD	40.0	3,516	805		4000	IP66	IK08	6.1	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-AYB70-4.6-60DSHIELD	60.0	5,249	620		4000	IP66	IK08	9.0	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-AYB70-4.8-80DSHIELD	80.0	6,600	620		4000	IP66	IK08	9.1	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-AYB70-4.6-120DSHIELD	120.0	10,581	880		4000	IP66	IK08	9.0	RAL7016 Anthracite Grey Finish	Driver inc	Dali
VCYP-AYB70-4.8-180DSHIELD	180.0	14,743	880		4000	IP66	IK08	9.1	RAL7016 Anthracite Grey Finish	Driver inc	Dali



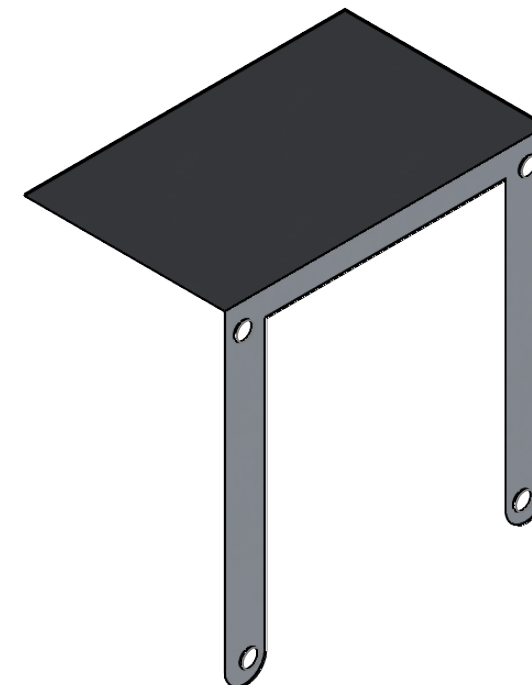
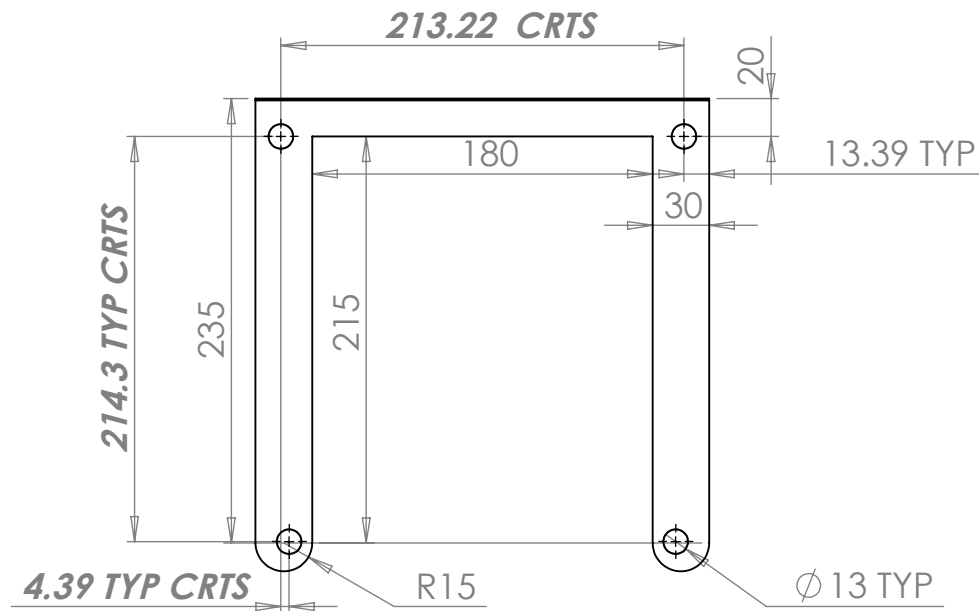
Accessories & Options

Mounting Options

- Post top 60mm
[Contact for details](#)

Other Options

- Part Night Dimming
- Colour Temperature Option
- Photocell Option
- Emergency Option
[Contact for details](#)



Powdercoated - RAL7016
Weight 145g

Detail of change:	To be perfect to hole crts of VCYP (LED fitting)
Detail of change:	
Detail of change:	
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Title: VCYP M BS (150mm)		
Drawn: JKA	Checked:	Drawing No: KL 4862 B
Date: 20/10/2021	Issue: A	
Material: 1mm thick Aluminium		
All dimensions in mm (unless otherwise stated)		