

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: EPHESUS

Report Number: P574932

Luminaire Tested: **EPH-VN-06-735-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574932
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

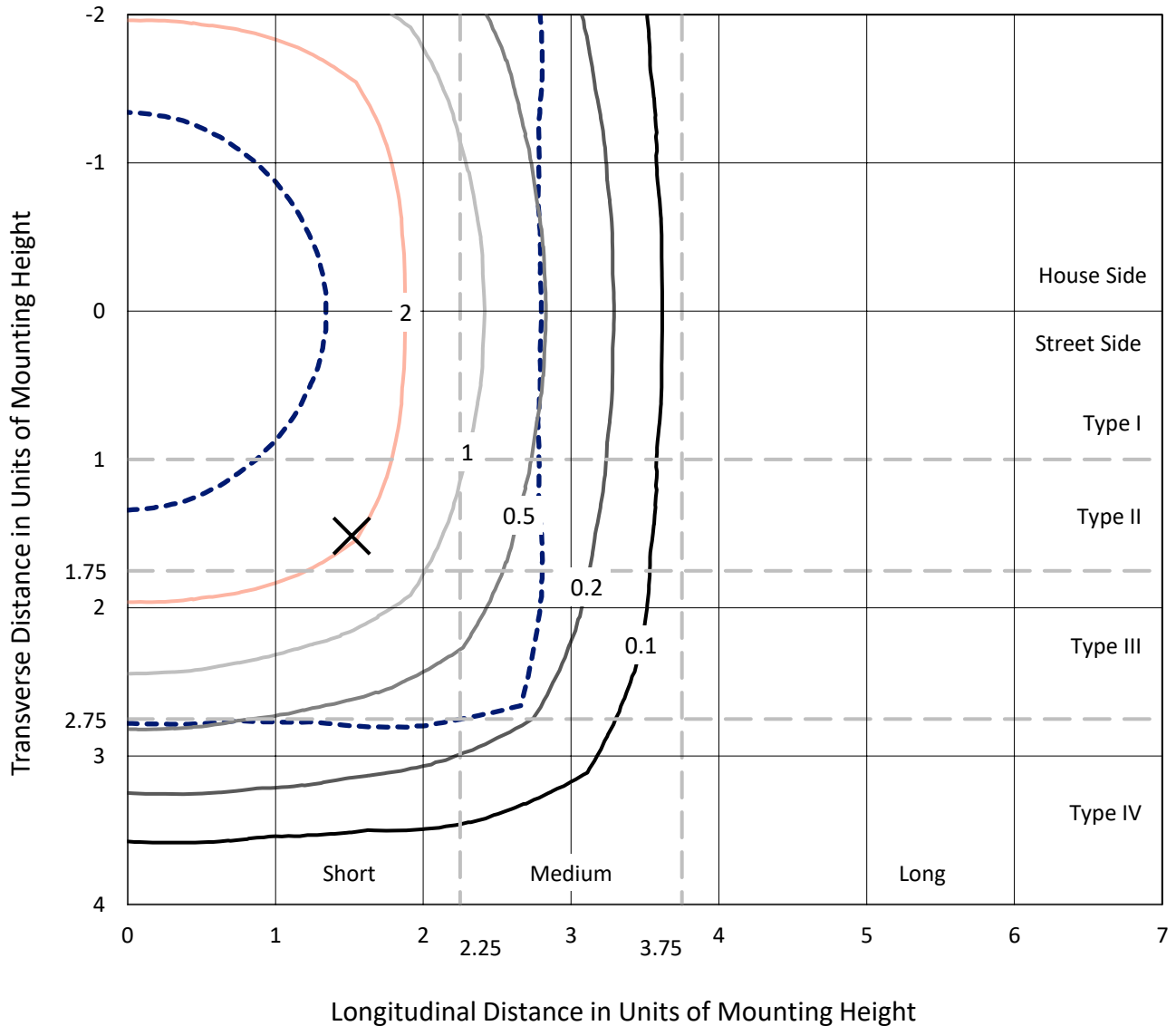
Lumens per Lamp: N/A
Luminaire Lumens: 53554.9 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

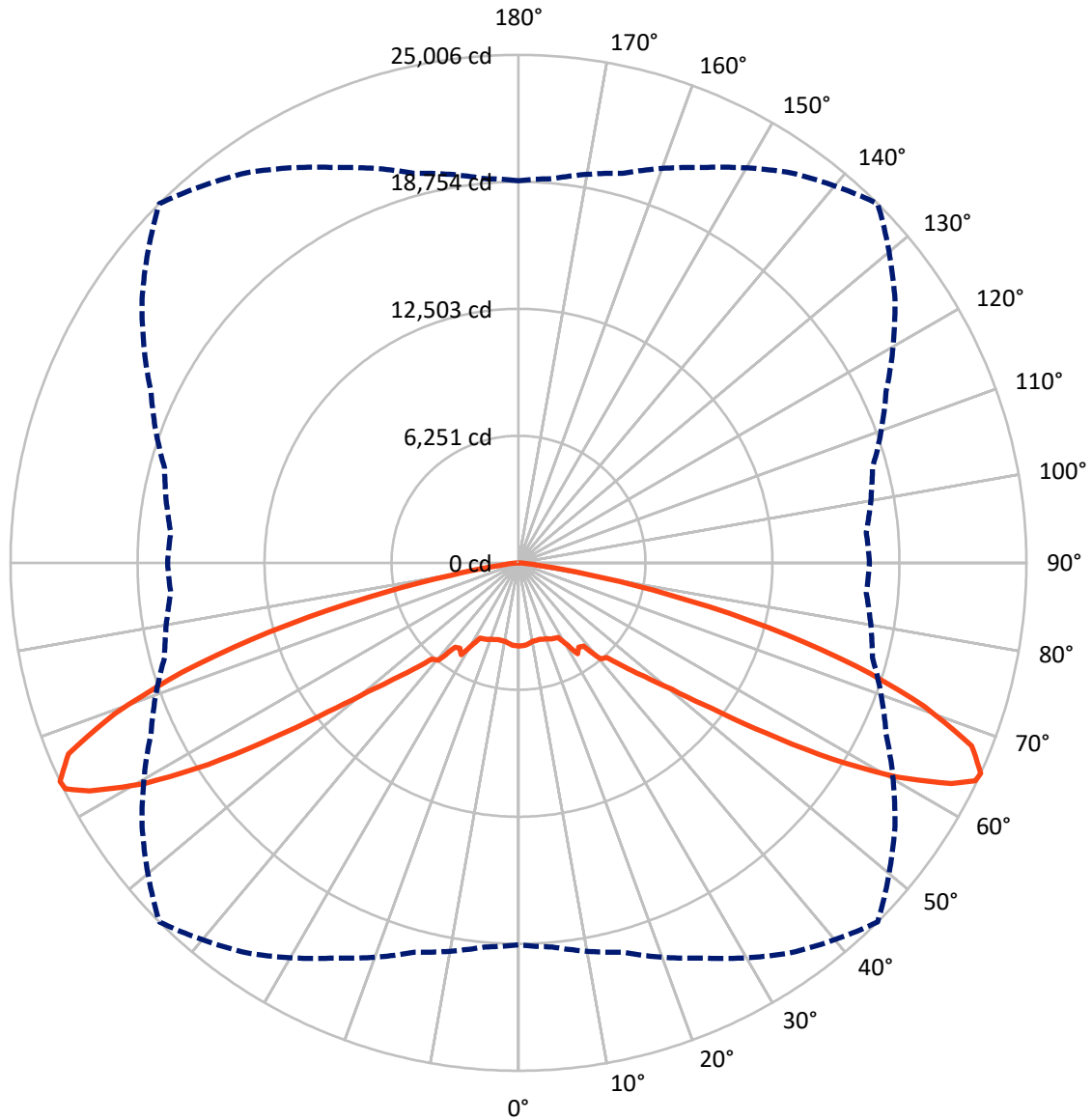
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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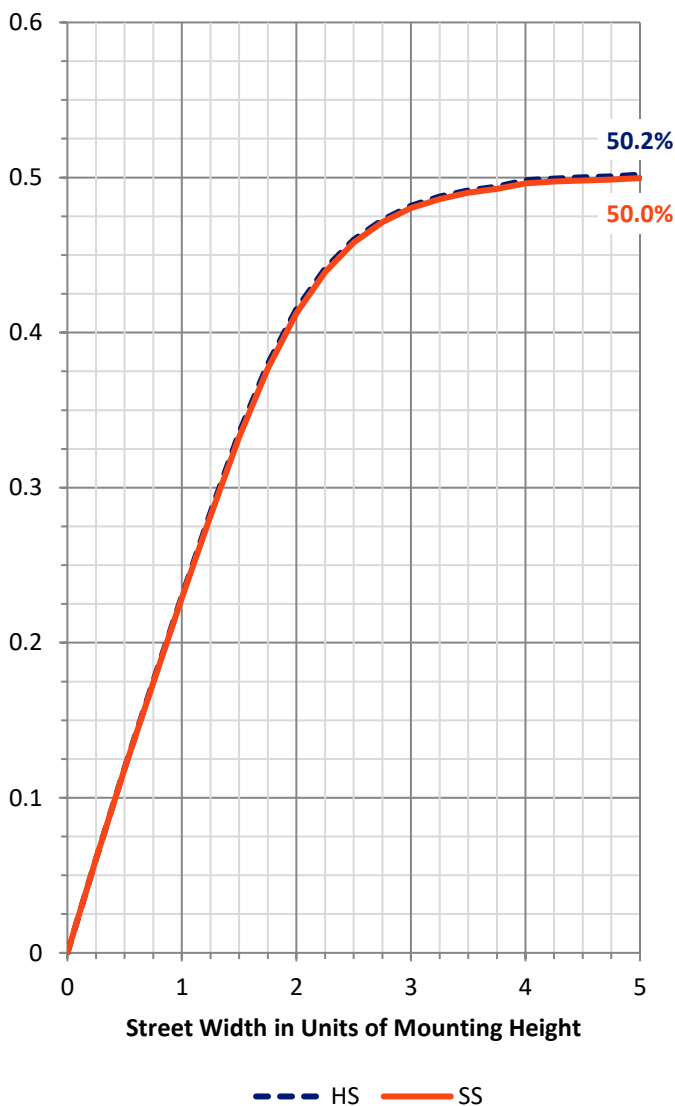
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26777.5	0.0	26777.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26777.5	0.0	26777.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53554.9	0.0	53554.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.3	0.7
10°-20°	1128.7	2.1
20°-30°	1953.7	3.6
30°-40°	3248.7	6.1
40°-50°	5861.1	10.9
50°-60°	13056.6	24.4
60°-70°	19458.6	36.3
70°-80°	8063.9	15.1
80°-90°	399.4	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	53554.9	100.0
0°-180°	53554.9	100.0

Coefficient of Utilization



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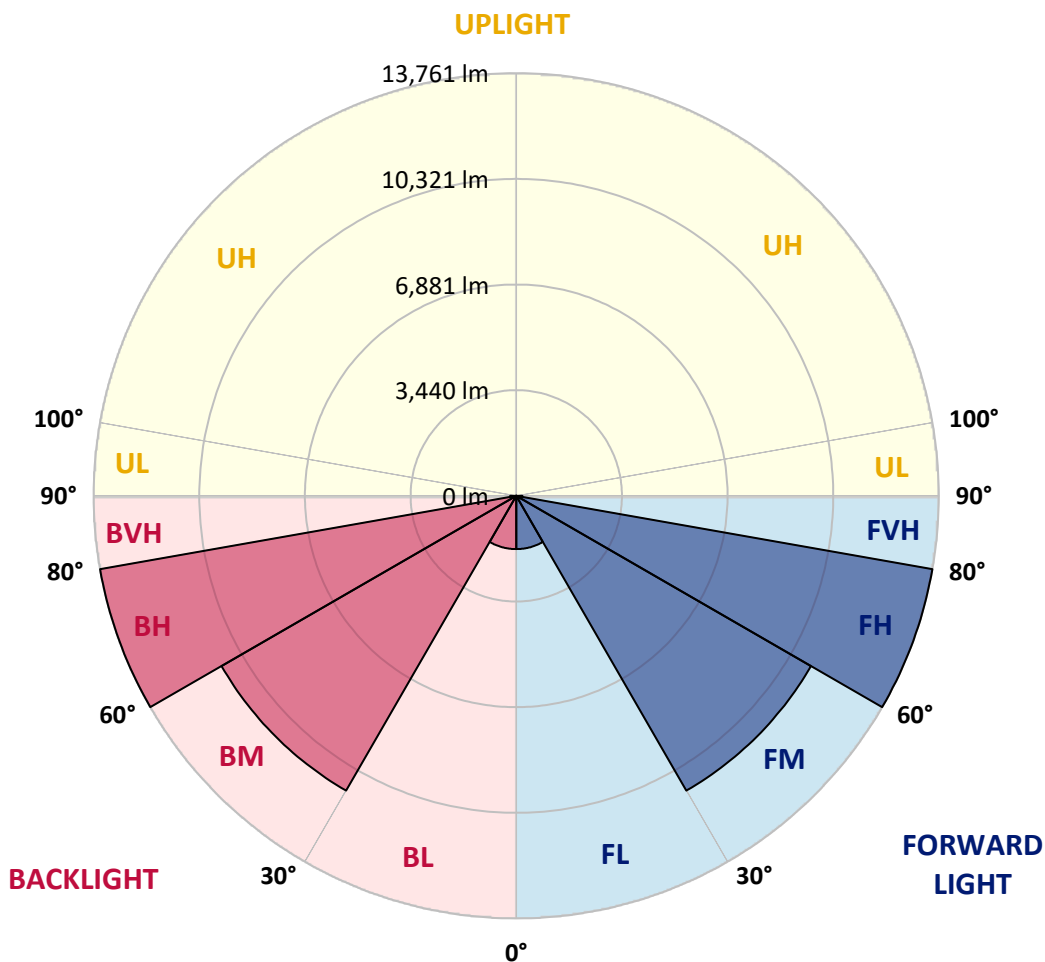
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1733.4	3.2			
FM (30°-60°)	11083.2	20.7			
FH (60°-80°)	13761.2	25.7			G5
FVH (80°-90°)	199.7	0.4			G2/225
BL (0°-30°)	1733.4	3.2	B3/2500		
BM (30°-60°)	11083.2	20.7	B5		
BH (60°-80°)	13761.2	25.7	B5		G5
BVH (80°-90°)	199.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6
2.5°	4047.3	4059.1	4053.2	4053.2	4070.9	4082.8	4088.7	4147.9	4124.2	4141.9
5°	4059.1	4059.1	4070.9	4059.1	4070.9	4059.1	4070.9	4053.2	4070.9	4082.8
7.5°	4035.4	4023.6	4005.8	4005.8	3999.9	3988.1	3970.3	4017.7	3994.0	4011.8
10°	4041.3	4023.6	3964.4	3976.3	3923.0	3923.0	3934.8	3934.8	3988.1	4047.3
12.5°	4041.3	4005.8	3988.1	3911.2	3911.2	3917.1	3946.7	3958.5	3994.0	4017.7
15°	4041.3	4023.6	3994.0	3893.4	3917.1	3905.3	3934.8	3934.8	4011.8	4053.2
17.5°	4065.0	4076.9	4023.6	3928.9	3934.8	3958.5	3940.8	3958.5	4053.2	4082.8
20°	4070.9	4023.6	4005.8	3946.7	3999.9	3988.1	3982.2	4017.7	4047.3	4100.5
22.5°	4059.1	4076.9	4005.8	3999.9	4047.3	4070.9	4082.8	4041.3	4076.9	4112.4
25°	4159.7	4094.6	4076.9	4065.0	4088.7	4112.4	4100.5	4136.0	4136.0	4177.4
27.5°	4431.9	4437.8	4402.3	4260.3	4212.9	4159.7	4183.4	4278.0	4390.5	4479.2
30°	4556.1	4579.8	4674.5	4650.8	4633.1	4650.8	4644.9	4668.6	4680.4	4686.3
32.5°	4668.6	4656.7	4615.3	4721.8	5070.9	5337.2	5082.7	4733.6	4656.7	4633.1
35°	5076.8	5076.8	4988.1	4852.0	5035.4	5100.5	4982.2	4816.5	4911.2	5106.4
37.5°	5603.4	5526.5	5562.0	5544.3	5343.1	5201.1	5408.2	5514.7	5532.4	5526.5
40°	5917.1	5863.8	5810.5	5905.2	6088.6	6218.8	6035.4	5781.0	5846.0	5976.2
42.5°	6633.0	6496.9	6508.8	6414.1	6408.2	6366.7	6325.3	6343.1	6437.8	6585.7
45°	7366.7	7431.8	7390.4	7212.9	7295.7	7295.7	7177.4	7266.1	7313.5	7485.1
47.5°	8514.6	8485.1	8502.8	8343.0	8337.1	8378.5	8337.1	8343.0	8491.0	8479.1
50°	9857.8	9940.7	9964.3	9887.4	9792.7	9775.0	9709.9	9792.7	9881.5	9887.4
52.5°	11715.8	11804.5	11804.5	11828.2	11946.5	11887.4	11875.5	11881.4	11709.8	11591.5
55°	14058.9	14088.5	14189.1	14396.2	14757.1	14804.5	14579.6	14479.0	14165.4	13976.1
57.5°	16372.5	16490.8	16768.9	17307.4	17751.2	18236.4	17585.5	16922.8	16307.4	16005.6
60°	18295.5	18467.1	18999.7	19751.1	20981.9	21425.7	20325.1	19189.0	17940.5	17017.4
62.5°	19200.8	19467.1	19916.8	21437.5	23283.6	23922.6	22307.3	20242.2	18348.8	17461.2
64°	19206.8	19248.2	20147.6	21786.6	23686.0	24922.6	22786.6	20242.2	18449.4	17354.7
65°	18810.3	18981.9	19851.7	21467.1	23431.5	25005.5	22620.9	19964.1	18035.2	17183.1
67.5°	17011.5	17005.6	17810.3	19413.9	22141.6	24064.7	21212.6	18408.0	17011.5	16088.5
70°	12905.1	13112.2	13881.4	15851.8	19159.4	21218.6	18550.0	15644.7	13905.1	13165.4
72.5°	7721.8	7993.9	8976.2	11378.5	14881.4	17384.3	14721.6	11573.8	9479.1	8307.5
75°	3520.6	3721.8	4396.4	6354.9	9917.0	12709.8	9976.2	6692.2	4798.7	4053.2
77.5°	988.1	1112.4	1485.2	2917.1	5443.7	7621.2	5597.5	3224.8	2094.6	1739.6
80°	443.8	467.4	526.6	710.0	1727.8	3360.9	2313.6	1183.4	787.0	650.9
82.5°	242.6	260.4	343.2	366.9	491.1	893.5	763.3	556.2	473.4	378.7
85°	136.1	142.0	195.3	195.3	236.7	260.4	278.1	295.9	289.9	213.0
87.5°	41.4	47.3	59.2	59.2	59.2	59.2	94.7	130.2	142.0	100.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
4094.6
4124.2
4100.5
4041.3
4065.0
4076.9
4082.8
4124.2
4147.9
4153.8
4230.7
4497.0
4668.6
4656.7
5118.3
5585.7
5923.0
6609.3
7508.7
8414.1
9834.1
11650.7
14124.0
16058.9
17390.2
17443.5
17555.9
17277.8
16200.9
13124.0
8337.1
3946.7
1704.1
621.3
366.9
207.1
100.6
0.0

OF REPORT)