

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: P574940

Luminaire Tested: **EPH-VN-08-740-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574940
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

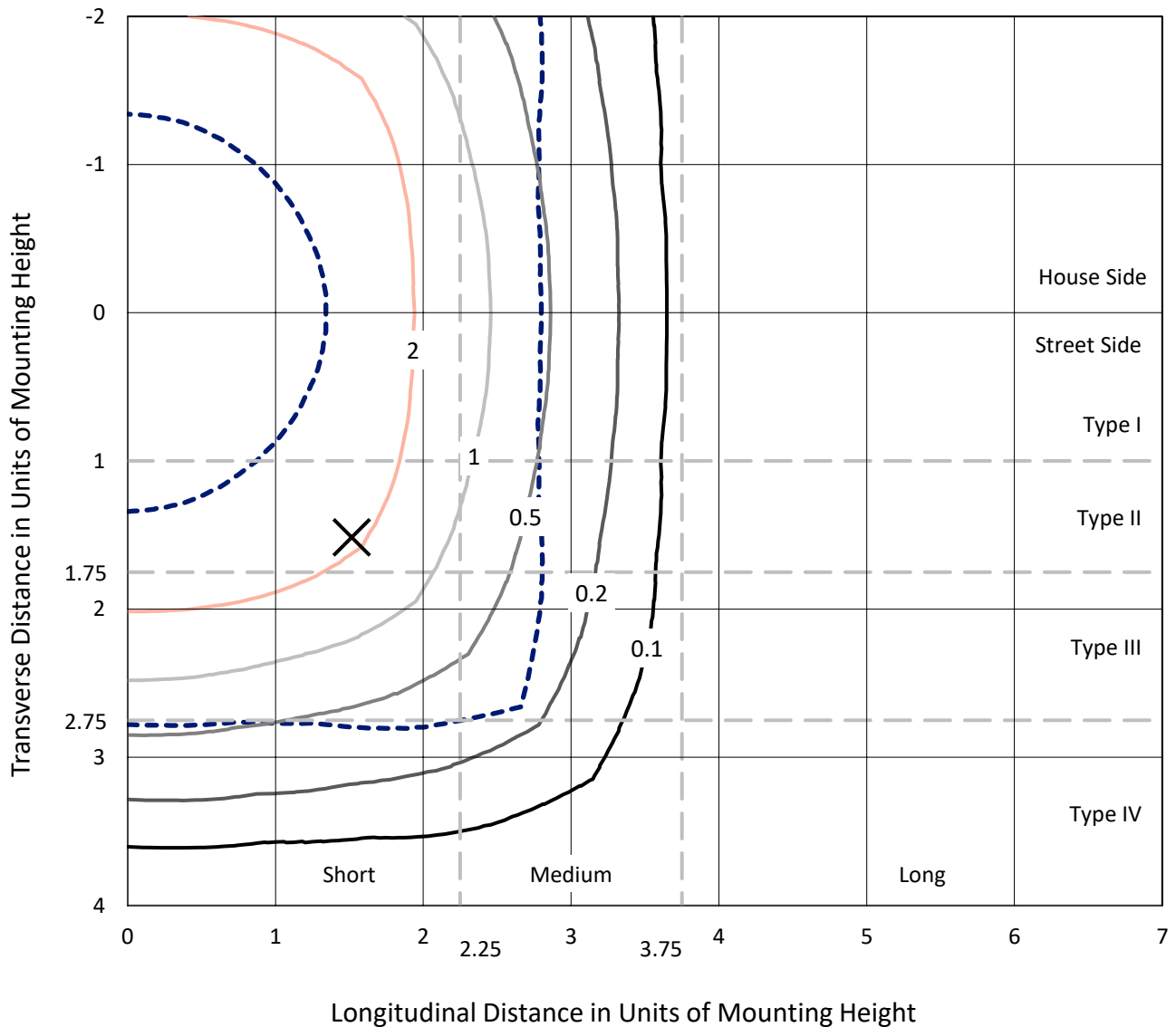
Lumens per Lamp: N/A
Luminaire Lumens: 57207.7 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 488.3
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

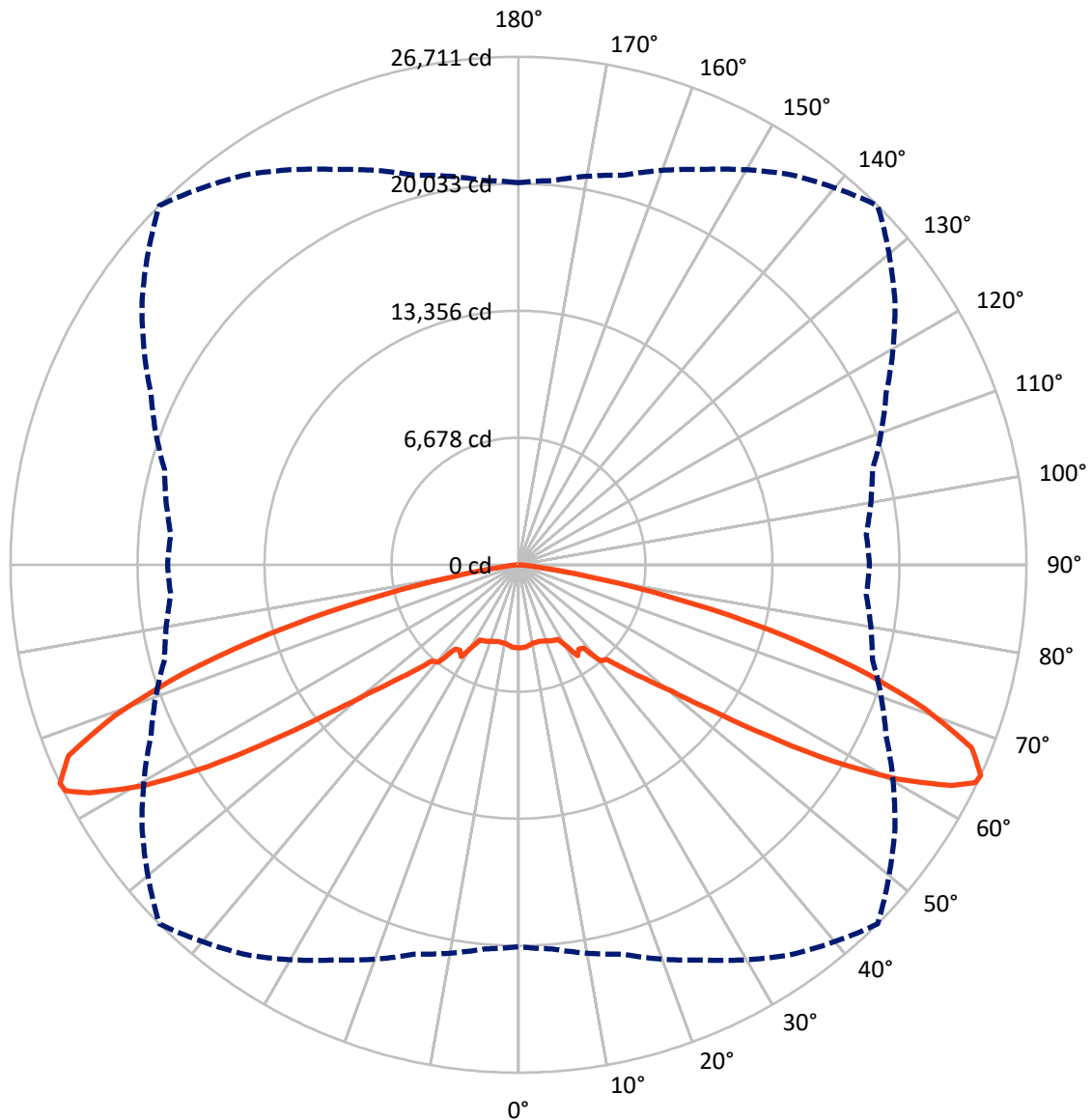
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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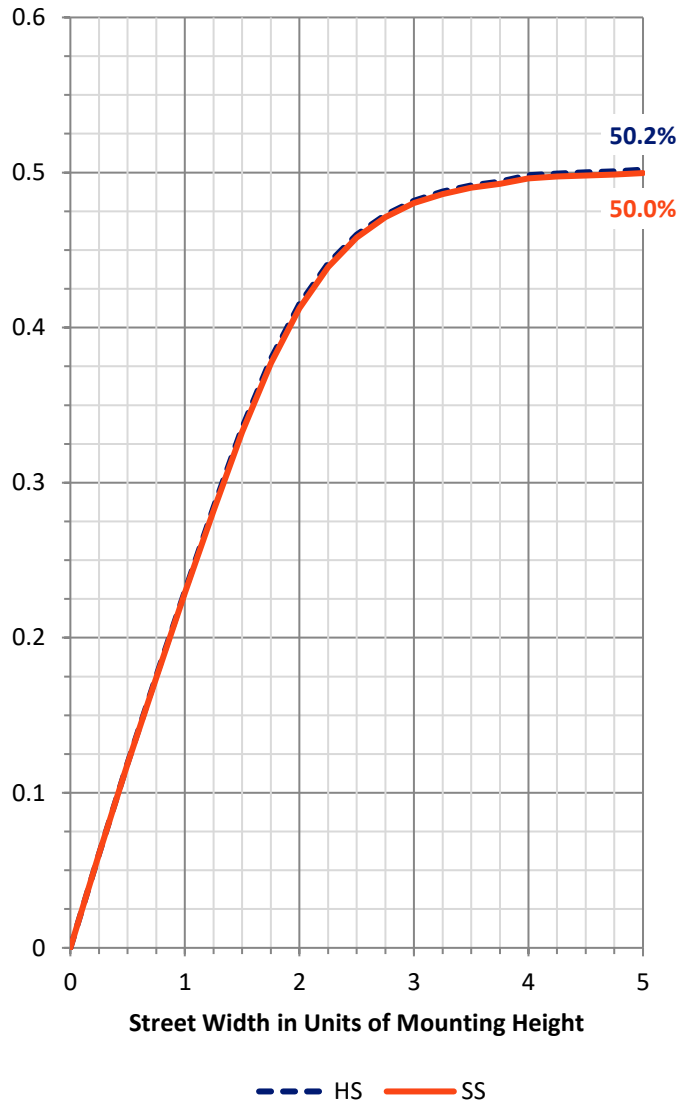
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28603.9	0.0	28603.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28603.9	0.0	28603.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	57207.7	0.0	57207.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.5	0.7
10°-20°	1205.7	2.1
20°-30°	2087.0	3.6
30°-40°	3470.3	6.1
40°-50°	6260.9	10.9
50°-60°	13947.2	24.4
60°-70°	20785.8	36.3
70°-80°	8613.9	15.1
80°-90°	426.6	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°	57207.7	100.0
0°-180°	57207.7	100.0

Coefficient of Utilization

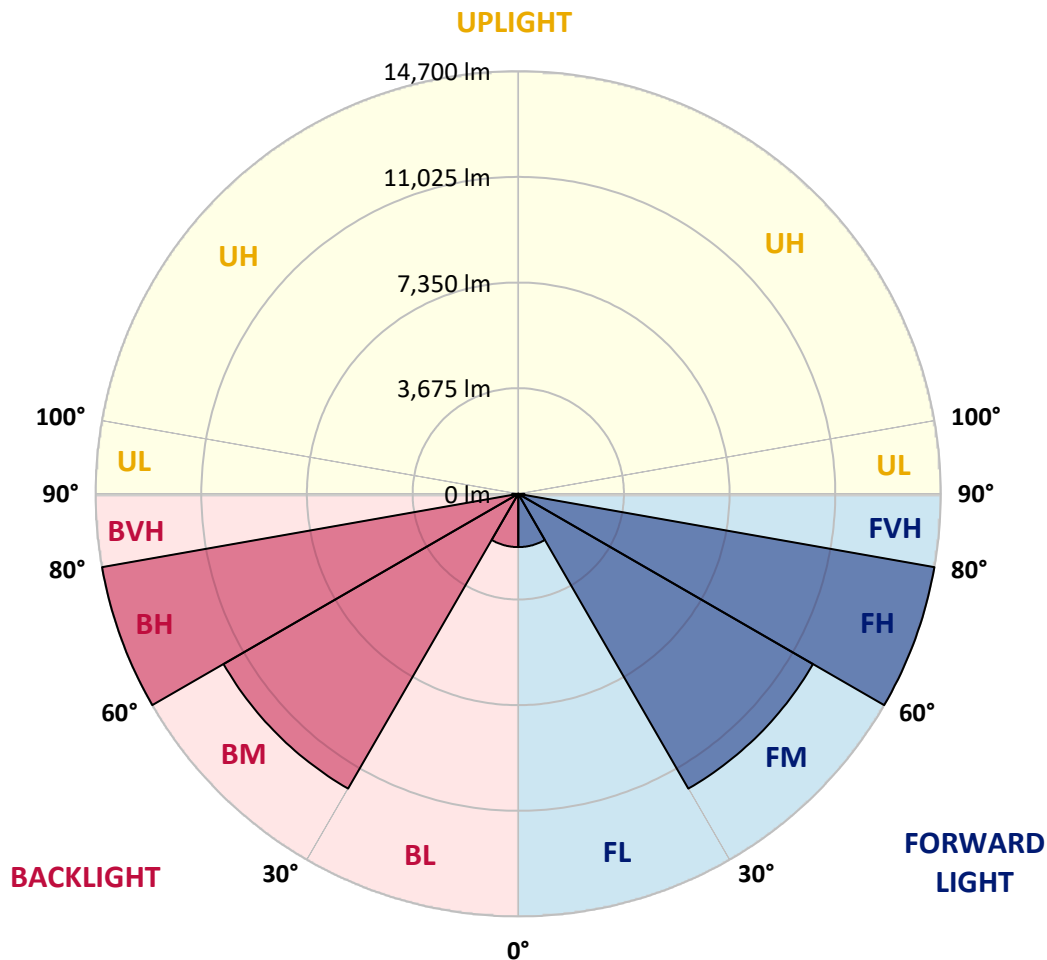


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.6	3.2			
FM (30°-60°)	11839.2	20.7			
FH (60°-80°)	14699.8	25.7			G5
FVH (80°-90°)	213.3	0.4			G2/225
BL (0°-30°)	1851.6	3.2	B3/2500		
BM (30°-60°)	11839.2	20.7	B5		
BH (60°-80°)	14699.8	25.7	B5		G5
BVH (80°-90°)	213.3	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°	4373.9	4373.9	4373.9	4373.9	4373.9	4373.9	4373.9	4373.9	4373.9	4373.9
2.5°	4323.3	4336.0	4329.6	4329.6	4348.6	4361.2	4367.6	4430.8	4405.5	4424.4
5°	4336.0	4336.0	4348.6	4336.0	4348.6	4336.0	4348.6	4329.6	4348.6	4361.2
7.5°	4310.7	4298.0	4279.1	4279.1	4272.8	4260.1	4241.1	4291.7	4266.4	4285.4
10°	4317.0	4298.0	4234.8	4247.5	4190.6	4190.6	4203.2	4203.2	4260.1	4323.3
12.5°	4317.0	4279.1	4260.1	4177.9	4177.9	4184.3	4215.9	4228.5	4266.4	4291.7
15°	4317.0	4298.0	4266.4	4159.0	4184.3	4171.6	4203.2	4203.2	4285.4	4329.6
17.5°	4342.3	4354.9	4298.0	4196.9	4203.2	4228.5	4209.5	4228.5	4329.6	4361.2
20°	4348.6	4298.0	4279.1	4215.9	4272.8	4260.1	4253.8	4291.7	4323.3	4380.2
22.5°	4336.0	4354.9	4279.1	4272.8	4323.3	4348.6	4361.2	4317.0	4354.9	4392.8
25°	4443.4	4373.9	4354.9	4342.3	4367.6	4392.8	4380.2	4418.1	4418.1	4462.4
27.5°	4734.2	4740.5	4702.6	4550.9	4500.3	4443.4	4468.7	4569.8	4689.9	4784.7
30°	4866.9	4892.2	4993.3	4968.0	4949.1	4968.0	4961.7	4987.0	4999.6	5005.9
32.5°	4987.0	4974.3	4930.1	5043.9	5416.8	5701.2	5429.4	5056.5	4974.3	4949.1
35°	5423.1	5423.1	5328.3	5182.9	5378.9	5448.4	5322.0	5145.0	5246.1	5454.7
37.5°	5985.6	5903.5	5941.4	5922.4	5707.5	5555.8	5777.1	5890.8	5909.8	5903.5
40°	6320.6	6263.8	6206.9	6308.0	6503.9	6643.0	6447.1	6175.3	6244.8	6383.8
42.5°	7085.4	6940.1	6952.7	6851.6	6845.3	6801.0	6756.8	6775.7	6876.9	7034.9
45°	7869.2	7938.7	7894.5	7704.9	7793.3	7793.3	7666.9	7761.7	7812.3	7995.6
47.5°	9095.4	9063.8	9082.8	8912.1	8905.8	8950.0	8905.8	8912.1	9070.1	9057.5
50°	10530.2	10618.7	10644.0	10561.8	10460.7	10441.7	10372.2	10460.7	10555.5	10561.8
52.5°	12514.9	12609.7	12609.7	12635.0	12761.4	12698.2	12685.5	12691.8	12508.5	12382.1
55°	15017.8	15049.4	15156.9	15378.1	15763.7	15814.2	15574.1	15466.6	15131.6	14929.3
57.5°	17489.2	17615.6	17912.7	18487.9	18961.9	19480.2	18784.9	18077.0	17419.7	17097.3
60°	19543.4	19726.7	20295.6	21098.3	22413.0	22887.0	21711.4	20497.8	19164.2	18178.2
62.5°	20510.5	20794.9	21275.3	22899.7	24871.7	25554.3	23828.8	21622.9	19600.3	18652.2
64°	20516.8	20561.0	21521.8	23272.6	25301.5	26622.5	24340.8	21622.9	19707.7	18538.4
65°	20093.3	20276.6	21205.7	22931.3	25029.7	26711.0	24163.8	21325.8	19265.3	18355.1
67.5°	18171.8	18165.5	19025.1	20738.0	23651.8	25706.0	22659.5	19663.5	18171.8	17185.8
70°	13785.3	14006.5	14828.2	16933.0	20466.2	22665.8	19815.2	16711.8	14853.5	14063.4
72.5°	8248.4	8539.2	9588.4	12154.6	15896.4	18570.0	15725.7	12363.2	10125.7	8874.2
75°	3760.8	3975.7	4696.2	6788.4	10593.4	13576.7	10656.6	7148.6	5126.0	4329.6
77.5°	1055.5	1188.3	1586.5	3116.1	5815.0	8141.0	5979.3	3444.7	2237.5	1858.3
80°	474.0	499.3	562.5	758.5	1845.6	3590.1	2471.4	1264.1	840.6	695.3
82.5°	259.1	278.1	366.6	391.9	524.6	954.4	815.4	594.1	505.7	404.5
85°	145.4	151.7	208.6	208.6	252.8	278.1	297.1	316.0	309.7	227.5
87.5°	44.2	50.6	63.2	63.2	63.2	63.2	101.1	139.1	151.7	107.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
4373.9
4405.5
4380.2
4317.0
4342.3
4354.9
4361.2
4405.5
4430.8
4437.1
4519.3
4803.7
4987.0
4974.3
5467.4
5966.7
6327.0
7060.2
8020.9
8987.9
10504.9
12445.3
15087.4
17154.2
18576.4
18633.2
18753.3
18456.3
17305.9
14019.2
8905.8
4215.9
1820.3
663.7
391.9
221.2
107.5
0.0

OF REPORT)