

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: P574945

Luminaire Tested: **EPH-VN-07-750-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

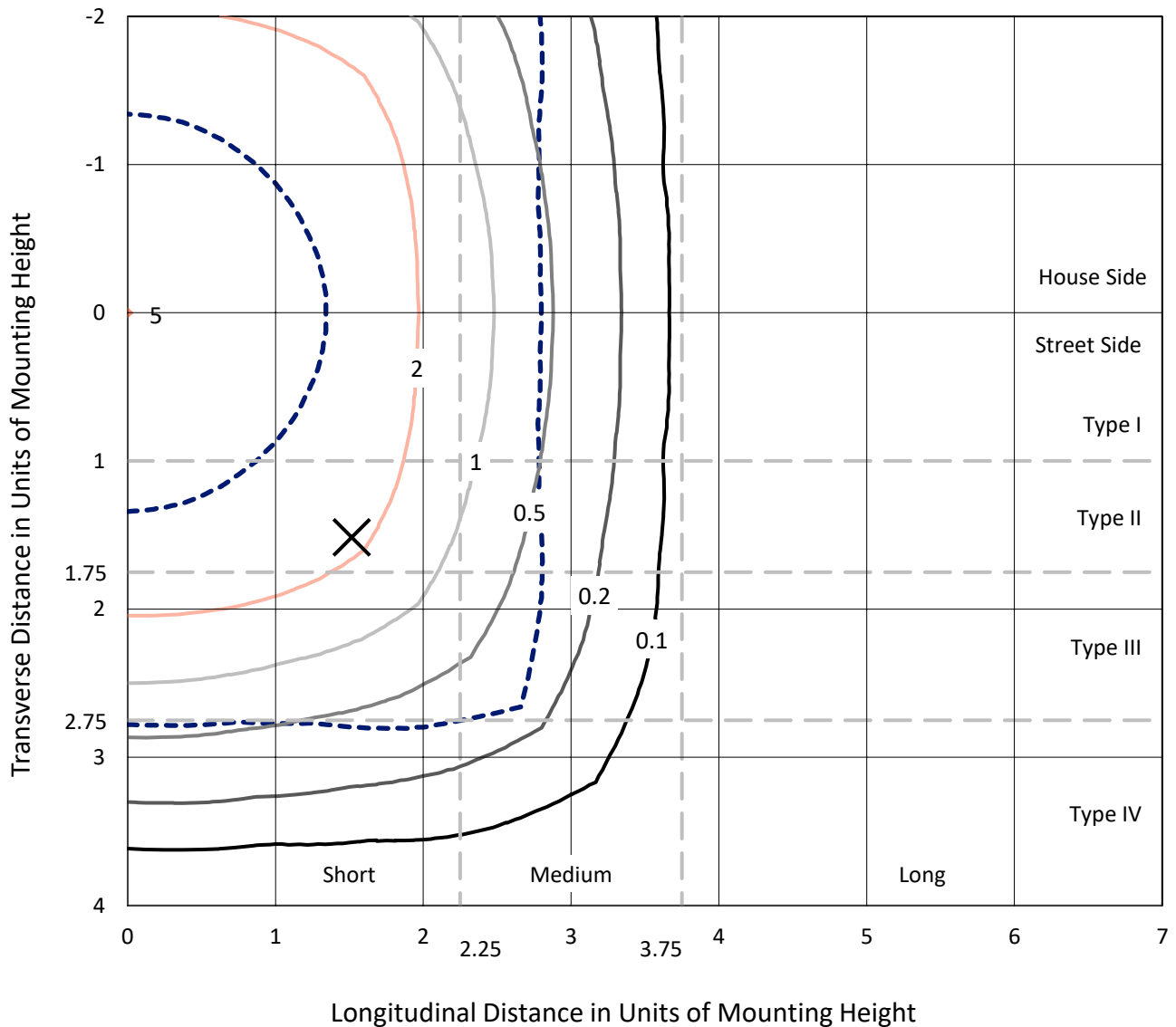
Lumens per Lamp: N/A
Luminaire Lumens: 59256.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
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

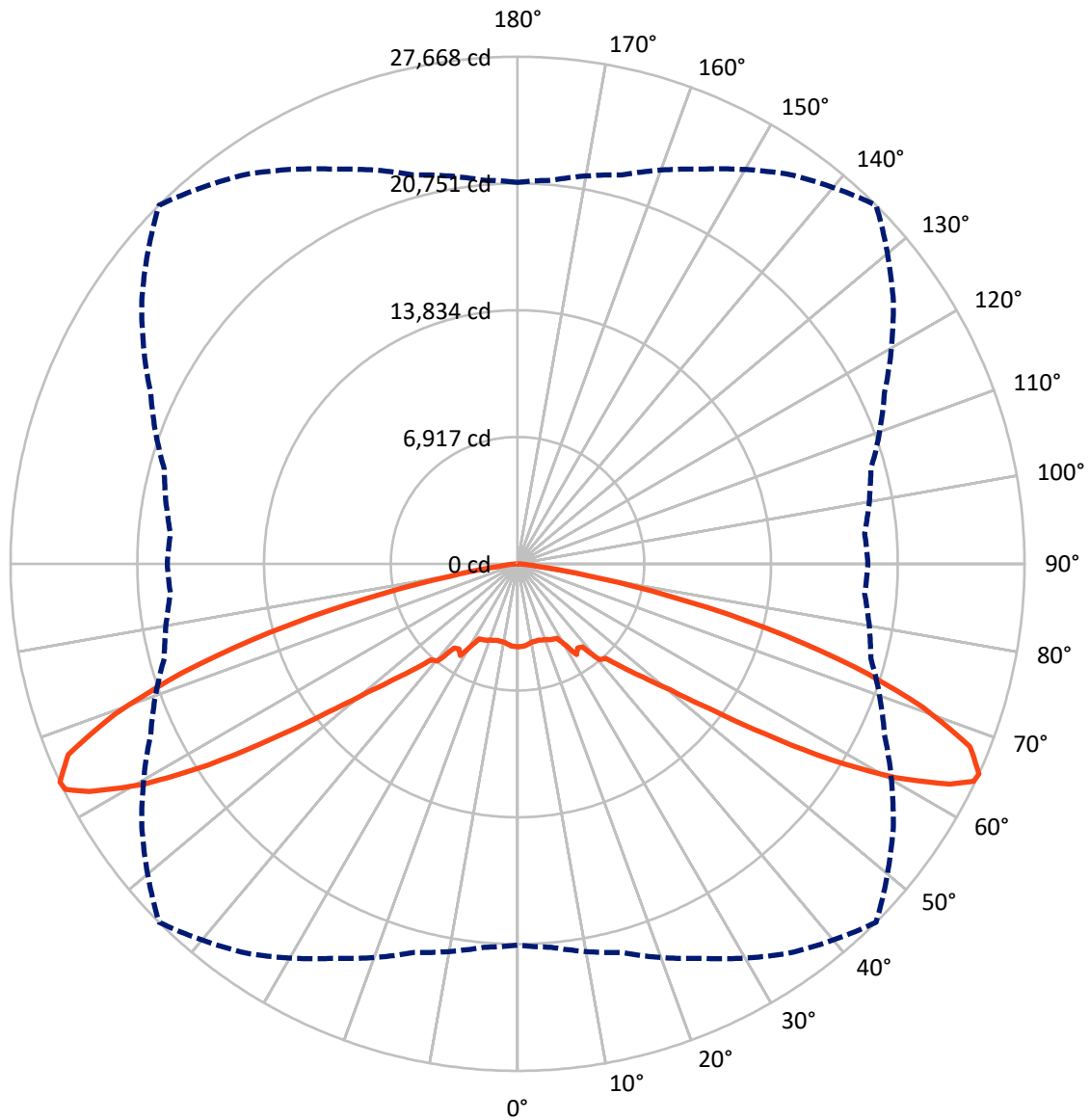
✕ Max cd
 - - - 1/2 Max cd



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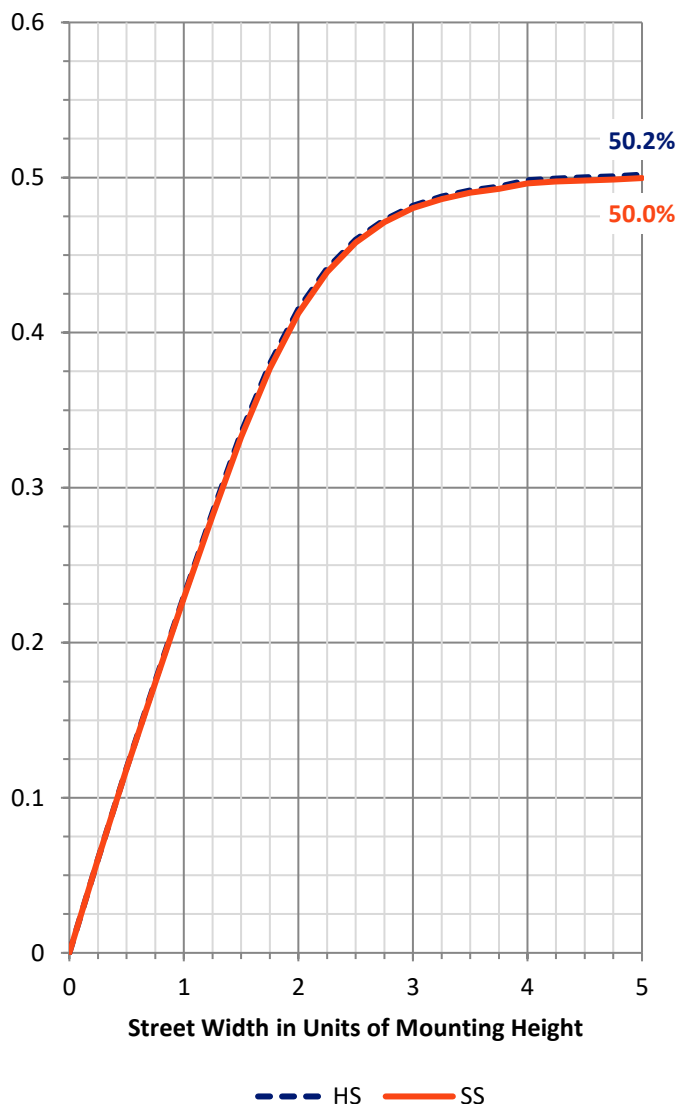
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29628.3	0.0	29628.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29628.3	0.0	29628.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	59256.6	0.0	59256.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.2	0.7
10°-20°	1248.9	2.1
20°-30°	2161.7	3.6
30°-40°	3594.5	6.1
40°-50°	6485.1	10.9
50°-60°	14446.7	24.4
60°-70°	21530.2	36.3
70°-80°	8922.4	15.1
80°-90°	441.9	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°	59256.6	100.0
0°-180°	59256.6	100.0

Coefficient of Utilization

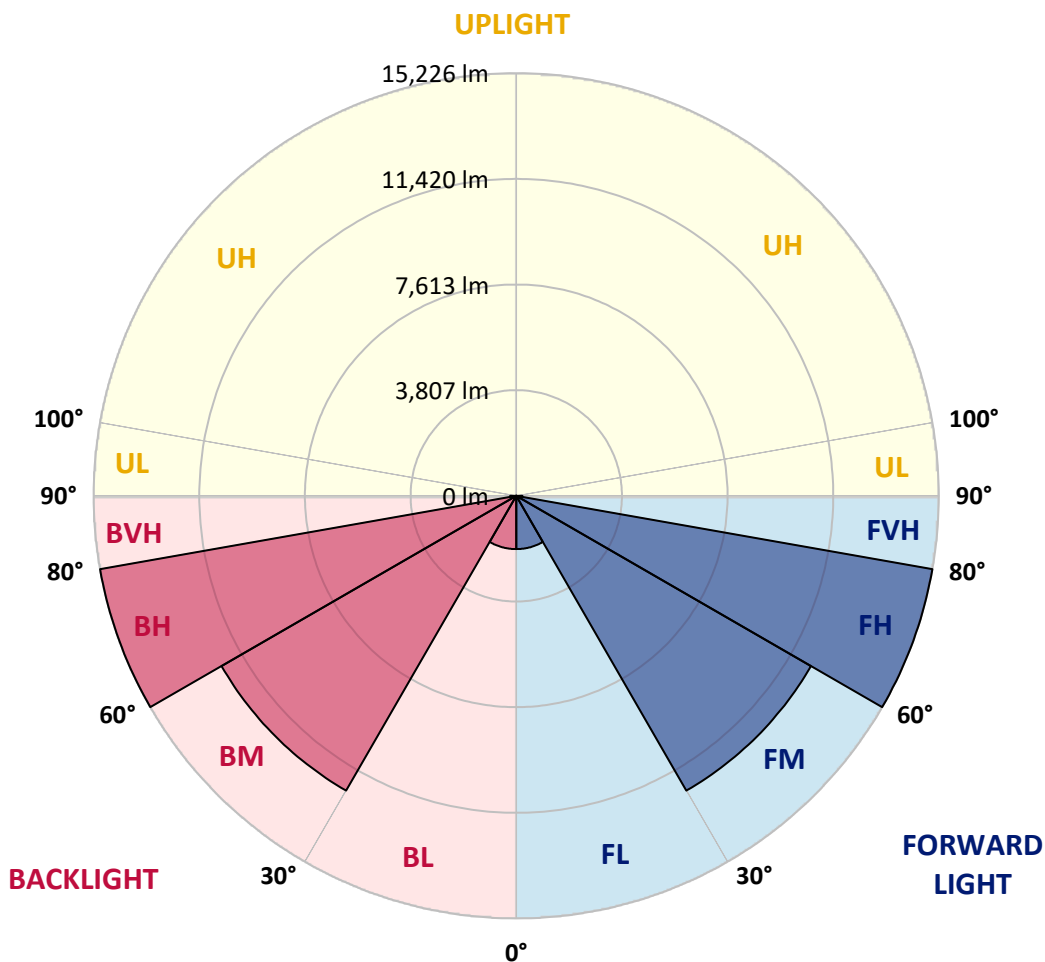


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1917.9	3.2			
FM (30°-60°)	12263.2	20.7			
FH (60°-80°)	15226.3	25.7			G5
FVH (80°-90°)	221.0	0.4			G2/225
BL (0°-30°)	1917.9	3.2	B3/2500		
BM (30°-60°)	12263.2	20.7	B5		
BH (60°-80°)	15226.3	25.7	B5		G5
BVH (80°-90°)	221.0	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°	4530.5	4530.5	4530.5	4530.5	4530.5	4530.5	4530.5	4530.5	4530.5	4530.5
2.5°	4478.1	4491.2	4484.7	4484.7	4504.3	4517.4	4524.0	4589.4	4563.3	4582.9
5°	4491.2	4491.2	4504.3	4491.2	4504.3	4491.2	4504.3	4484.7	4504.3	4517.4
7.5°	4465.1	4452.0	4432.3	4432.3	4425.8	4412.7	4393.0	4445.4	4419.2	4438.9
10°	4471.6	4452.0	4386.5	4399.6	4340.7	4340.7	4353.8	4353.8	4412.7	4478.1
12.5°	4471.6	4432.3	4412.7	4327.6	4327.6	4334.1	4366.9	4379.9	4419.2	4445.4
15°	4471.6	4452.0	4419.2	4307.9	4334.1	4321.0	4353.8	4353.8	4438.9	4484.7
17.5°	4497.8	4510.9	4452.0	4347.2	4353.8	4379.9	4360.3	4379.9	4484.7	4517.4
20°	4504.3	4452.0	4432.3	4366.9	4425.8	4412.7	4406.1	4445.4	4478.1	4537.1
22.5°	4491.2	4510.9	4432.3	4425.8	4478.1	4504.3	4517.4	4471.6	4510.9	4550.2
25°	4602.5	4530.5	4510.9	4497.8	4524.0	4550.2	4537.1	4576.4	4576.4	4622.2
27.5°	4903.7	4910.3	4871.0	4713.8	4661.5	4602.5	4628.7	4733.5	4857.9	4956.1
30°	5041.2	5067.4	5172.1	5145.9	5126.3	5145.9	5139.4	5165.6	5178.7	5185.2
32.5°	5165.6	5152.5	5106.7	5224.5	5610.8	5905.4	5623.9	5237.6	5152.5	5126.3
35°	5617.3	5617.3	5519.1	5368.5	5571.5	5643.5	5512.6	5329.3	5434.0	5650.1
37.5°	6200.0	6114.9	6154.2	6134.5	5911.9	5754.8	5984.0	6101.8	6121.4	6114.9
40°	6547.0	6488.1	6429.2	6533.9	6736.9	6880.9	6677.9	6396.4	6468.4	6612.5
42.5°	7339.2	7188.6	7201.7	7097.0	7090.4	7044.6	6998.7	7018.4	7123.1	7286.8
45°	8151.0	8223.0	8177.2	7980.8	8072.5	8072.5	7941.5	8039.7	8092.1	8282.0
47.5°	9421.1	9388.4	9408.0	9231.3	9224.7	9270.6	9224.7	9231.3	9394.9	9381.9
50°	10907.3	10999.0	11025.2	10940.0	10835.3	10815.6	10743.6	10835.3	10933.5	10940.0
52.5°	12963.1	13061.3	13061.3	13087.5	13218.4	13152.9	13139.8	13146.4	12956.5	12825.6
55°	15555.7	15588.4	15699.7	15928.9	16328.2	16380.6	16131.8	16020.5	15673.5	15464.0
57.5°	18115.6	18246.5	18554.2	19150.0	19641.0	20177.9	19457.7	18724.4	18043.5	17709.6
60°	20243.3	20433.2	21022.4	21853.9	23215.7	23706.7	22489.0	21231.9	19850.5	18829.2
62.5°	21245.0	21539.6	22037.2	23719.8	25762.5	26469.5	24682.2	22397.3	20302.3	19320.2
64°	21251.6	21297.4	22292.5	24106.1	26207.7	27576.0	25212.5	22397.3	20413.6	19202.4
65°	20812.9	21002.8	21965.2	23752.5	25926.1	27667.6	25029.2	22089.6	19955.3	19012.5
67.5°	18822.6	18816.1	19706.5	21480.7	24498.9	26626.7	23471.0	20367.7	18822.6	17801.3
70°	14279.0	14508.2	15359.3	17539.4	21199.2	23477.6	20524.9	17310.3	15385.5	14567.1
72.5°	8543.8	8845.0	9931.8	12589.9	16465.7	19235.1	16288.9	12805.9	10488.3	9192.0
75°	3895.5	4118.1	4864.4	7031.5	10972.8	14063.0	11038.2	7404.7	5309.6	4484.7
77.5°	1093.3	1230.8	1643.3	3227.7	6023.2	8432.5	6193.5	3568.1	2317.6	1924.8
80°	491.0	517.2	582.7	785.6	1911.7	3718.7	2559.9	1309.4	870.8	720.2
82.5°	268.4	288.1	379.7	405.9	543.4	988.6	844.6	615.4	523.8	419.0
85°	150.6	157.1	216.1	216.1	261.9	288.1	307.7	327.4	320.8	235.7
87.5°	45.8	52.4	65.5	65.5	65.5	65.5	104.8	144.0	157.1	111.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
4530.5
4563.3
4537.1
4471.6
4497.8
4510.9
4517.4
4563.3
4589.4
4596.0
4681.1
4975.7
5165.6
5152.5
5663.2
6180.4
6553.5
7313.0
8308.1
9309.8
10881.1
12891.0
15627.7
17768.6
19241.6
19300.6
19425.0
19117.2
17925.7
14521.3
9224.7
4366.9
1885.5
687.4
405.9
229.1
111.3
0.0

OF REPORT)