

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: P574946

Luminaire Tested: **EPH-VN-08-750-U-5WQ**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P574946
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-750-U-5WQ
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

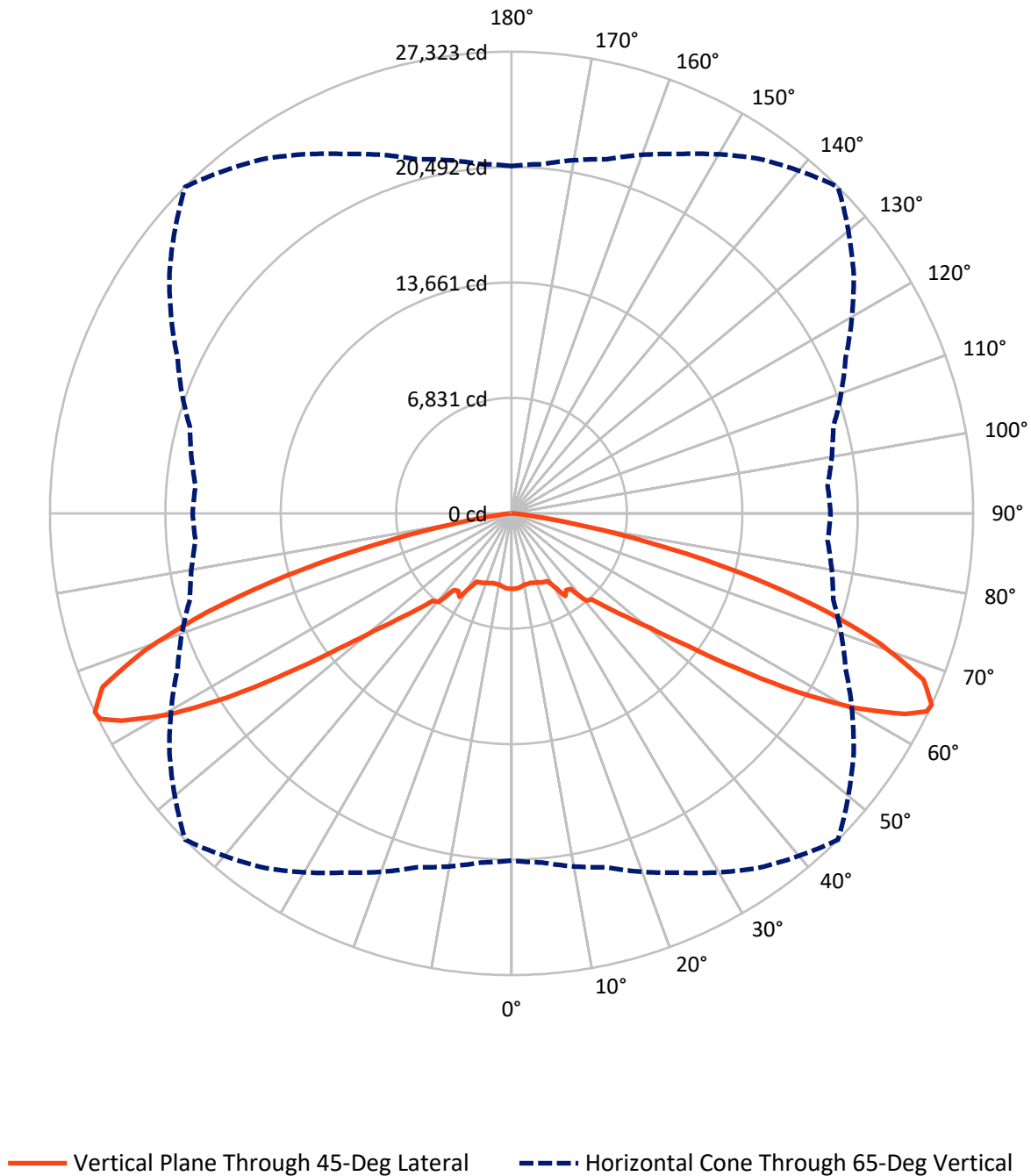
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58517.8 lumens
Efficiency: N/A
Efficacy: 119.8 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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Luminous Intensity Polar Plot



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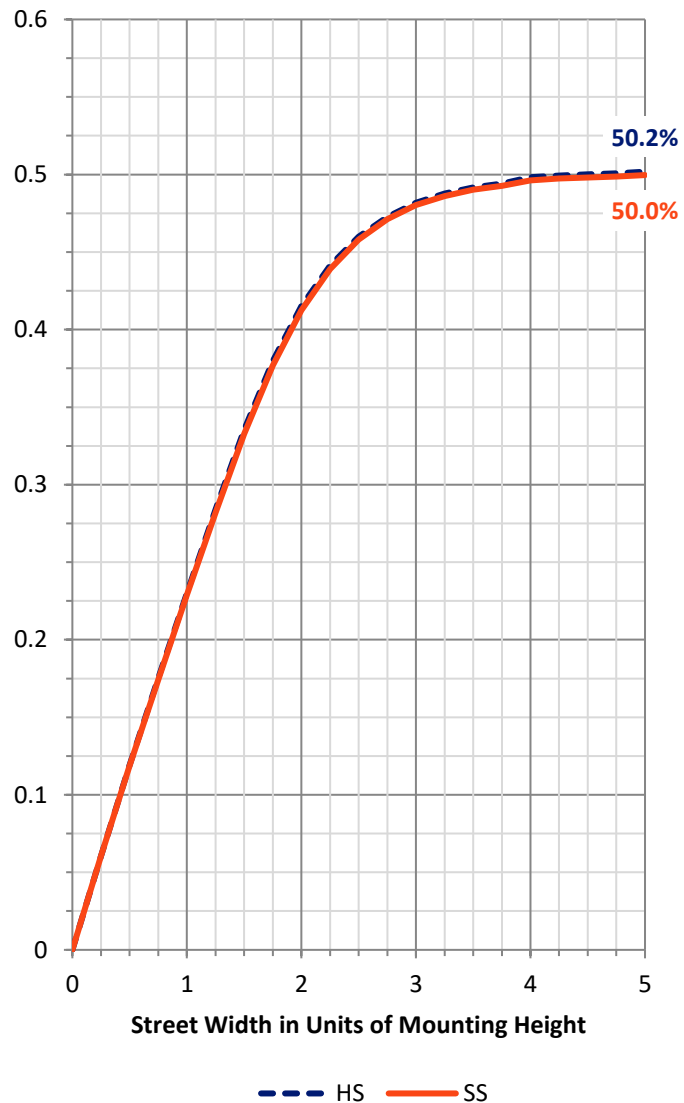
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29258.9	0.0	29258.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29258.9	0.0	29258.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	58517.8	0.0	58517.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	0.7
10°-20°	1233.3	2.1
20°-30°	2134.8	3.6
30°-40°	3549.7	6.1
40°-50°	6404.3	10.9
50°-60°	14266.5	24.4
60°-70°	21261.8	36.3
70°-80°	8811.1	15.1
80°-90°	436.4	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°	58517.8	100.0
0°-180°	58517.8	100.0

Coefficient of Utilization



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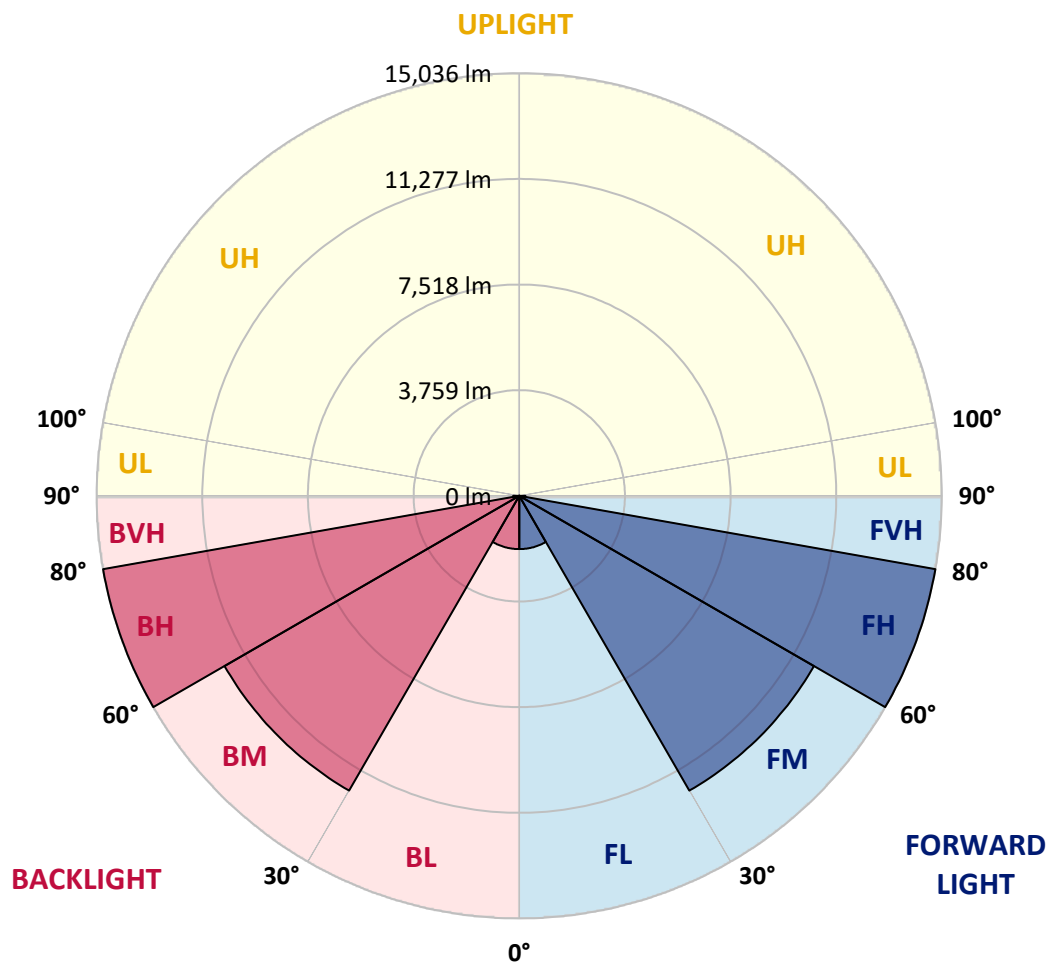
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1894.0	3.2			
FM	(30°-60°)	12110.3	20.7			
FH	(60°-80°)	15036.4	25.7			G5
FVH	(80°-90°)	218.2	0.4			G2/225
BL	(0°-30°)	1894.0	3.2	B3/2500		
BM	(30°-60°)	12110.3	20.7	B5		
BH	(60°-80°)	15036.4	25.7	B5		G5
BVH	(80°-90°)	218.2	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°	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0
2.5°	4422.3	4435.3	4428.8	4428.8	4448.2	4461.1	4467.6	4532.2	4506.4	4525.8
5°	4435.3	4435.3	4448.2	4435.3	4448.2	4435.3	4448.2	4428.8	4448.2	4461.1
7.5°	4409.4	4396.5	4377.1	4377.1	4370.6	4357.7	4338.3	4390.0	4364.1	4383.5
10°	4415.9	4396.5	4331.8	4344.7	4286.5	4286.5	4299.5	4299.5	4357.7	4422.3
12.5°	4415.9	4377.1	4357.7	4273.6	4273.6	4280.1	4312.4	4325.3	4364.1	4390.0
15°	4415.9	4396.5	4364.1	4254.2	4280.1	4267.2	4299.5	4299.5	4383.5	4428.8
17.5°	4441.7	4454.6	4396.5	4293.0	4299.5	4325.3	4305.9	4325.3	4428.8	4461.1
20°	4448.2	4396.5	4377.1	4312.4	4370.6	4357.7	4351.2	4390.0	4422.3	4480.5
22.5°	4435.3	4454.6	4377.1	4370.6	4422.3	4448.2	4461.1	4415.9	4454.6	4493.4
25°	4545.2	4474.0	4454.6	4441.7	4467.6	4493.4	4480.5	4519.3	4519.3	4564.6
27.5°	4842.6	4849.0	4810.2	4655.1	4603.4	4545.2	4571.0	4674.5	4797.3	4894.3
30°	4978.3	5004.2	5107.7	5081.8	5062.4	5081.8	5075.3	5101.2	5114.1	5120.6
32.5°	5101.2	5088.3	5043.0	5159.4	5540.8	5831.8	5553.8	5172.3	5088.3	5062.4
35°	5547.3	5547.3	5450.3	5301.6	5502.0	5573.2	5443.8	5262.8	5366.3	5579.6
37.5°	6122.7	6038.7	6077.5	6058.1	5838.2	5683.1	5909.4	6025.7	6045.1	6038.7
40°	6465.4	6407.2	6349.0	6452.4	6652.9	6795.1	6594.7	6316.7	6387.8	6530.0
42.5°	7247.7	7099.0	7111.9	7008.5	7002.0	6956.7	6911.5	6930.9	7034.3	7196.0
45°	8049.4	8120.5	8075.3	7881.3	7971.8	7971.8	7842.5	7939.5	7991.2	8178.7
47.5°	9303.7	9271.4	9290.8	9116.2	9109.7	9155.0	9109.7	9116.2	9277.8	9264.9
50°	10771.3	10861.8	10887.7	10803.6	10700.2	10680.8	10609.7	10700.2	10797.2	10803.6
52.5°	12801.5	12898.4	12898.4	12924.3	13053.6	12988.9	12976.0	12982.5	12795.0	12665.7
55°	15361.7	15394.1	15504.0	15730.3	16124.7	16176.4	15930.7	15820.8	15478.1	15271.2
57.5°	17889.7	18019.0	18322.9	18911.2	19396.1	19926.3	19215.1	18491.0	17818.6	17488.9
60°	19991.0	20178.5	20760.3	21581.4	22926.2	23411.1	22208.6	20967.2	19603.0	18594.4
62.5°	20980.2	21271.1	21762.5	23424.1	25441.3	26139.5	24374.5	22118.1	20049.1	19079.3
64°	20986.6	21031.9	22014.6	23805.5	25880.9	27232.2	24898.2	22118.1	20159.1	18963.0
65°	20553.4	20740.9	21691.3	23456.4	25602.9	27322.7	24717.1	21814.2	19706.5	18775.5
67.5°	18588.0	18581.5	19460.8	21212.9	24193.5	26294.7	23178.4	20113.8	18588.0	17579.4
70°	14101.0	14327.3	15167.8	17320.8	20934.9	23184.9	20269.0	17094.5	15193.6	14385.5
72.5°	8437.3	8734.7	9808.0	12432.9	16260.4	18995.3	16085.9	12646.3	10357.5	9077.4
75°	3846.9	4066.7	4803.8	6943.8	10836.0	13887.6	10900.6	7312.3	5243.4	4428.8
77.5°	1079.7	1215.5	1622.8	3187.4	5948.1	8327.4	6116.2	3523.6	2288.7	1900.8
80°	484.9	510.8	575.4	775.8	1887.9	3672.3	2528.0	1293.1	859.9	711.2
82.5°	265.1	284.5	375.0	400.9	536.6	976.3	834.0	607.7	517.2	413.8
85°	148.7	155.2	213.4	213.4	258.6	284.5	303.9	323.3	316.8	232.8
87.5°	45.3	51.7	64.7	64.7	64.7	64.7	103.4	142.2	155.2	109.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4474.0
4506.4
4480.5
4415.9
4441.7
4454.6
4461.1
4506.4
4532.2
4538.7
4622.7
4913.7
5101.2
5088.3
5592.6
6103.3
6471.8
7221.8
8204.6
9193.8
10745.5
12730.3
15432.9
17547.0
19001.8
19059.9
19182.8
18878.9
17702.2
14340.2
9109.7
4312.4
1862.0
678.9
400.9
226.3
109.9
0.0

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