

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: P574933

Luminaire Tested: **EPH-VN-07-735-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574933
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

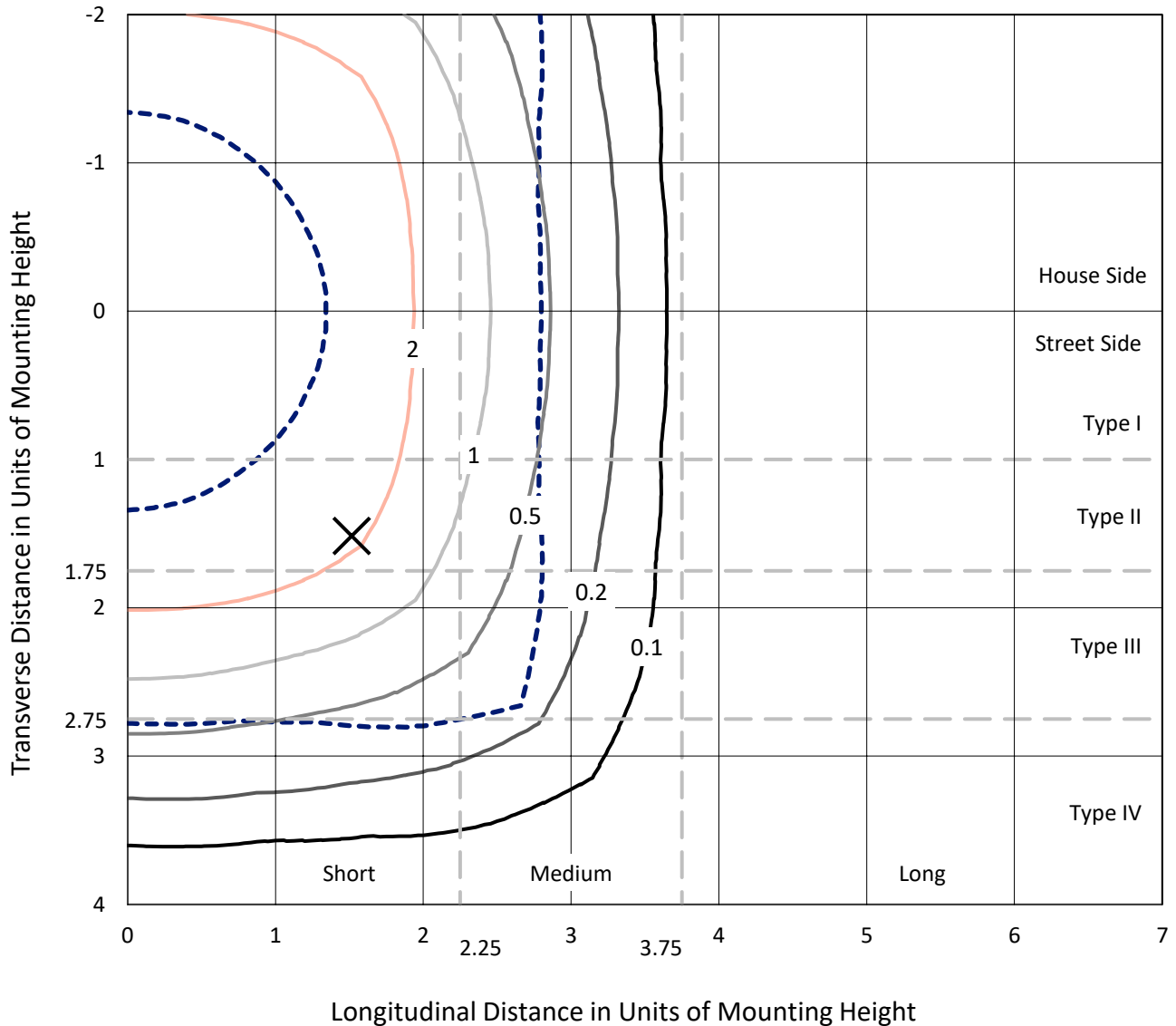
Lumens per Lamp: N/A
Luminaire Lumens: 57136.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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

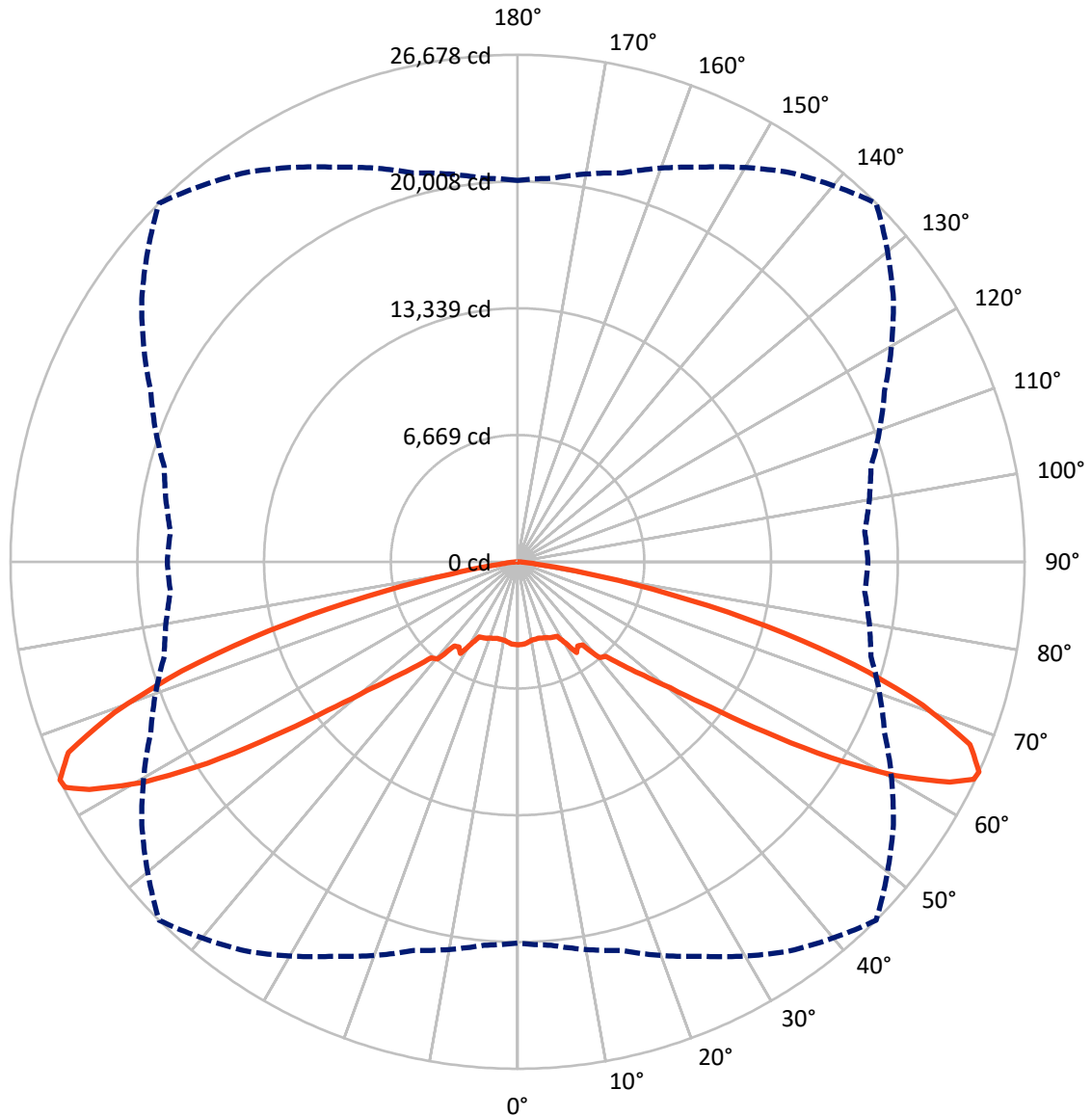
✕ Max cd
 - - - 1/2 Max cd



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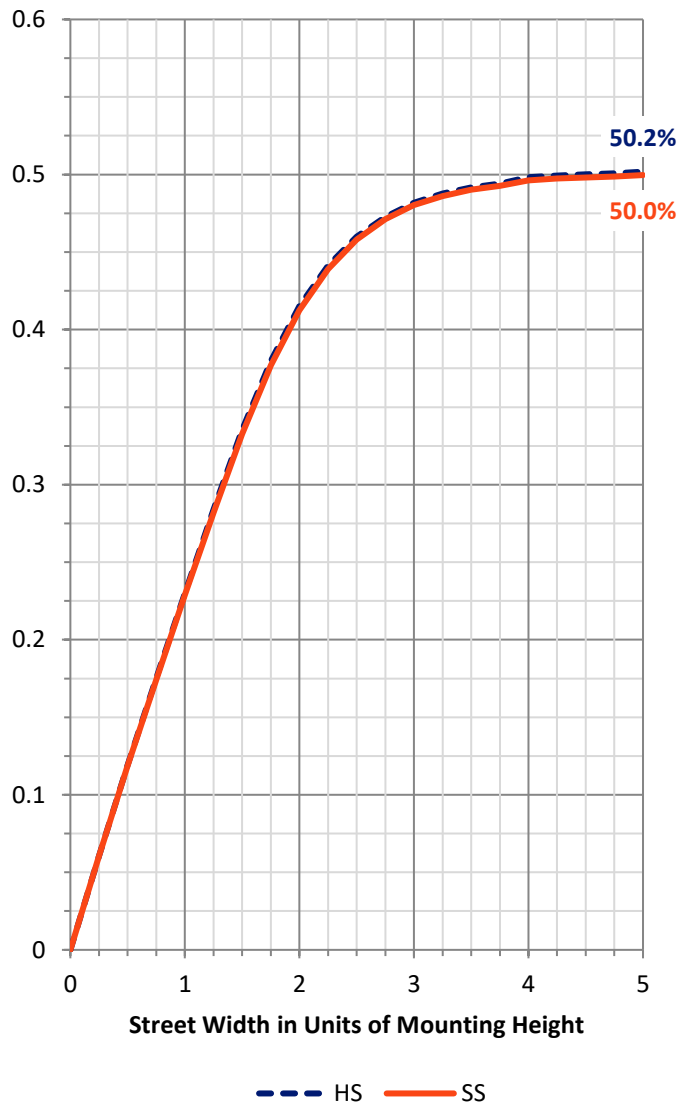
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28568.1	0.0	28568.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28568.1	0.0	28568.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	57136.3	0.0	57136.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	0.7
10°-20°	1204.2	2.1
20°-30°	2084.4	3.6
30°-40°	3465.9	6.1
40°-50°	6253.1	10.9
50°-60°	13929.7	24.4
60°-70°	20759.8	36.3
70°-80°	8603.1	15.1
80°-90°	426.1	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°	57136.3	100.0
0°-180°	57136.3	100.0

Coefficient of Utilization

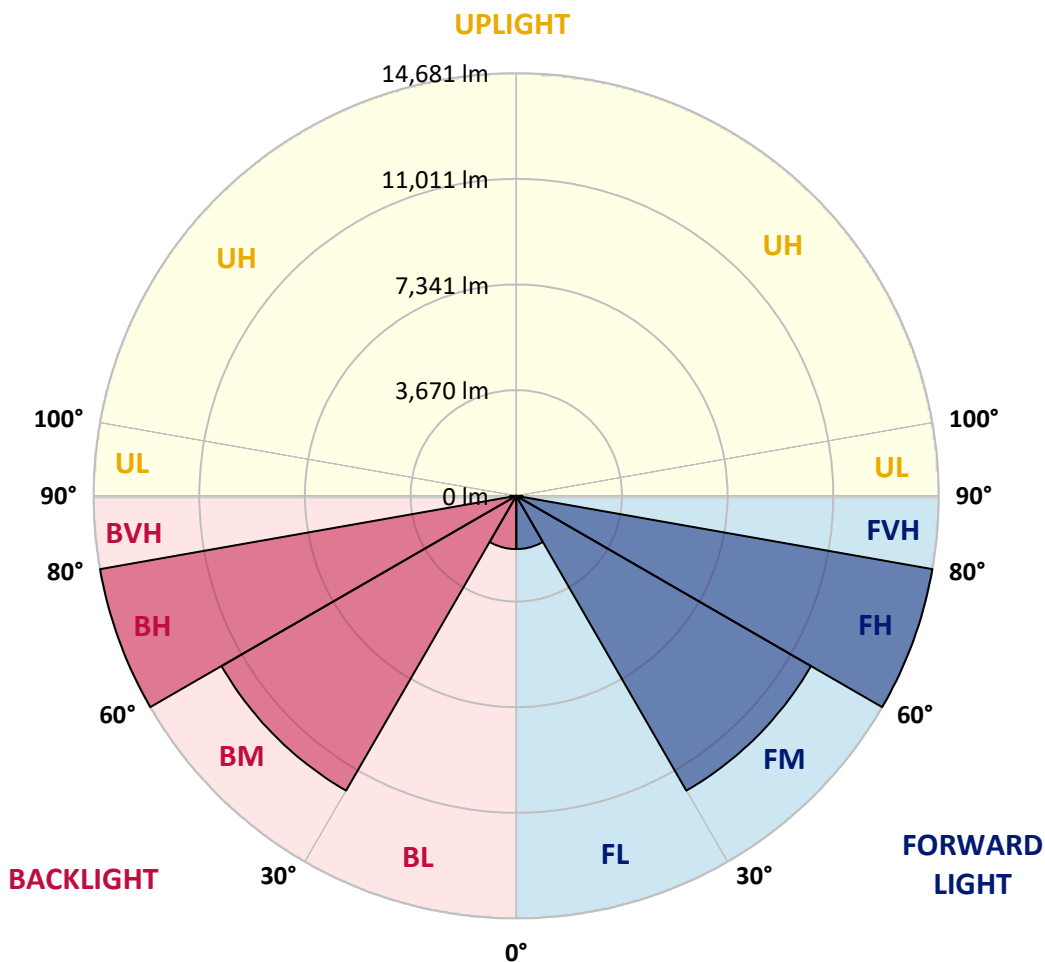


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.3	3.2			
FM (30°-60°)	11824.4	20.7			
FH (60°-80°)	14681.5	25.7			G5
FVH (80°-90°)	213.0	0.4			G2/225
BL (0°-30°)	1849.3	3.2	B3/2500		
BM (30°-60°)	11824.4	20.7	B5		
BH (60°-80°)	14681.5	25.7	B5		G5
BVH (80°-90°)	213.0	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°	4368.4	4368.4	4368.4	4368.4	4368.4	4368.4	4368.4	4368.4	4368.4	4368.4
2.5°	4317.9	4330.5	4324.2	4324.2	4343.2	4355.8	4362.1	4425.2	4400.0	4418.9
5°	4330.5	4330.5	4343.2	4330.5	4343.2	4330.5	4343.2	4324.2	4343.2	4355.8
7.5°	4305.3	4292.7	4273.7	4273.7	4267.4	4254.8	4235.9	4286.4	4261.1	4280.0
10°	4311.6	4292.7	4229.5	4242.2	4185.4	4185.4	4198.0	4198.0	4254.8	4317.9
12.5°	4311.6	4273.7	4254.8	4172.7	4172.7	4179.0	4210.6	4223.2	4261.1	4286.4
15°	4311.6	4292.7	4261.1	4153.8	4179.0	4166.4	4198.0	4198.0	4280.0	4324.2
17.5°	4336.9	4349.5	4292.7	4191.7	4198.0	4223.2	4204.3	4223.2	4324.2	4355.8
20°	4343.2	4292.7	4273.7	4210.6	4267.4	4254.8	4248.5	4286.4	4317.9	4374.7
22.5°	4330.5	4349.5	4273.7	4267.4	4317.9	4343.2	4355.8	4311.6	4349.5	4387.4
25°	4437.9	4368.4	4349.5	4336.9	4362.1	4387.4	4374.7	4412.6	4412.6	4456.8
27.5°	4728.2	4734.6	4696.7	4545.2	4494.7	4437.9	4463.1	4564.1	4684.1	4778.7
30°	4860.8	4886.1	4987.1	4961.8	4942.9	4961.8	4955.5	4980.8	4993.4	4999.7
32.5°	4980.8	4968.1	4923.9	5037.6	5410.0	5694.1	5422.6	5050.2	4968.1	4942.9
35°	5416.3	5416.3	5321.6	5176.5	5372.1	5441.6	5315.3	5138.6	5239.6	5447.9
37.5°	5978.2	5896.1	5934.0	5915.0	5700.4	5548.9	5769.9	5883.5	5902.4	5896.1
40°	6312.7	6255.9	6199.1	6300.1	6495.8	6634.7	6439.0	6167.6	6237.0	6375.9
42.5°	7076.6	6931.4	6944.0	6843.0	6836.7	6792.5	6748.3	6767.3	6868.3	7026.1
45°	7859.4	7928.8	7884.6	7695.2	7783.6	7783.6	7657.4	7752.1	7802.6	7985.6
47.5°	9084.0	9052.5	9071.4	8901.0	8894.7	8938.8	8894.7	8901.0	9058.8	9046.2
50°	10517.0	10605.4	10630.7	10548.6	10447.6	10428.7	10359.2	10447.6	10542.3	10548.6
52.5°	12499.2	12593.9	12593.9	12619.2	12745.4	12682.3	12669.7	12676.0	12492.9	12366.7
55°	14999.1	15030.6	15138.0	15358.9	15744.0	15794.5	15554.6	15447.3	15112.7	14910.7
57.5°	17467.4	17593.6	17890.3	18464.8	18938.2	19455.9	18761.5	18054.5	17397.9	17076.0
60°	19519.0	19702.1	20270.2	21071.9	22385.0	22858.5	21684.3	20472.2	19140.2	18155.5
62.5°	20484.9	20768.9	21248.7	22871.1	24840.7	25522.4	23799.1	21595.9	19575.8	18628.9
64°	20491.2	20535.4	21494.9	23243.5	25269.9	26589.3	24310.4	21595.9	19683.1	18515.3
65°	20068.2	20251.3	21179.3	22902.6	24998.5	26677.7	24133.6	21299.2	19241.3	18332.2
67.5°	18149.1	18142.8	19001.4	20712.1	23622.3	25673.9	22631.2	19639.0	18149.1	17164.4
70°	13768.1	13989.0	14809.7	16911.8	20440.7	22637.5	19790.5	16690.9	14835.0	14045.9
72.5°	8238.1	8528.5	9576.4	12139.4	15876.6	18546.8	15706.1	12347.7	10113.0	8863.1
75°	3756.1	3970.7	4690.4	6779.9	10580.2	13559.8	10643.3	7139.7	5119.6	4324.2
77.5°	1054.2	1186.8	1584.5	3112.2	5807.7	8130.8	5971.9	3440.4	2234.7	1855.9
80°	473.5	498.7	561.8	757.5	1843.3	3585.6	2468.3	1262.5	839.6	694.4
82.5°	258.8	277.8	366.1	391.4	524.0	953.2	814.3	593.4	505.0	404.0
85°	145.2	151.5	208.3	208.3	252.5	277.8	296.7	315.6	309.3	227.3
87.5°	44.2	50.5	63.1	63.1	63.1	63.1	101.0	138.9	151.5	107.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
4368.4
4400.0
4374.7
4311.6
4336.9
4349.5
4355.8
4400.0
4425.2
4431.5
4513.6
4797.7
4980.8
4968.1
5460.5
5959.2
6319.1
7051.3
8010.9
8976.7
10491.8
12429.8
15068.5
17132.8
18553.2
18610.0
18729.9
18433.2
17284.3
14001.7
8894.7
4210.6
1818.1
662.8
391.4
220.9
107.3
0.0

OF REPORT)