

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: P574928

Luminaire Tested: **EPH-VN-08-730-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574928
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

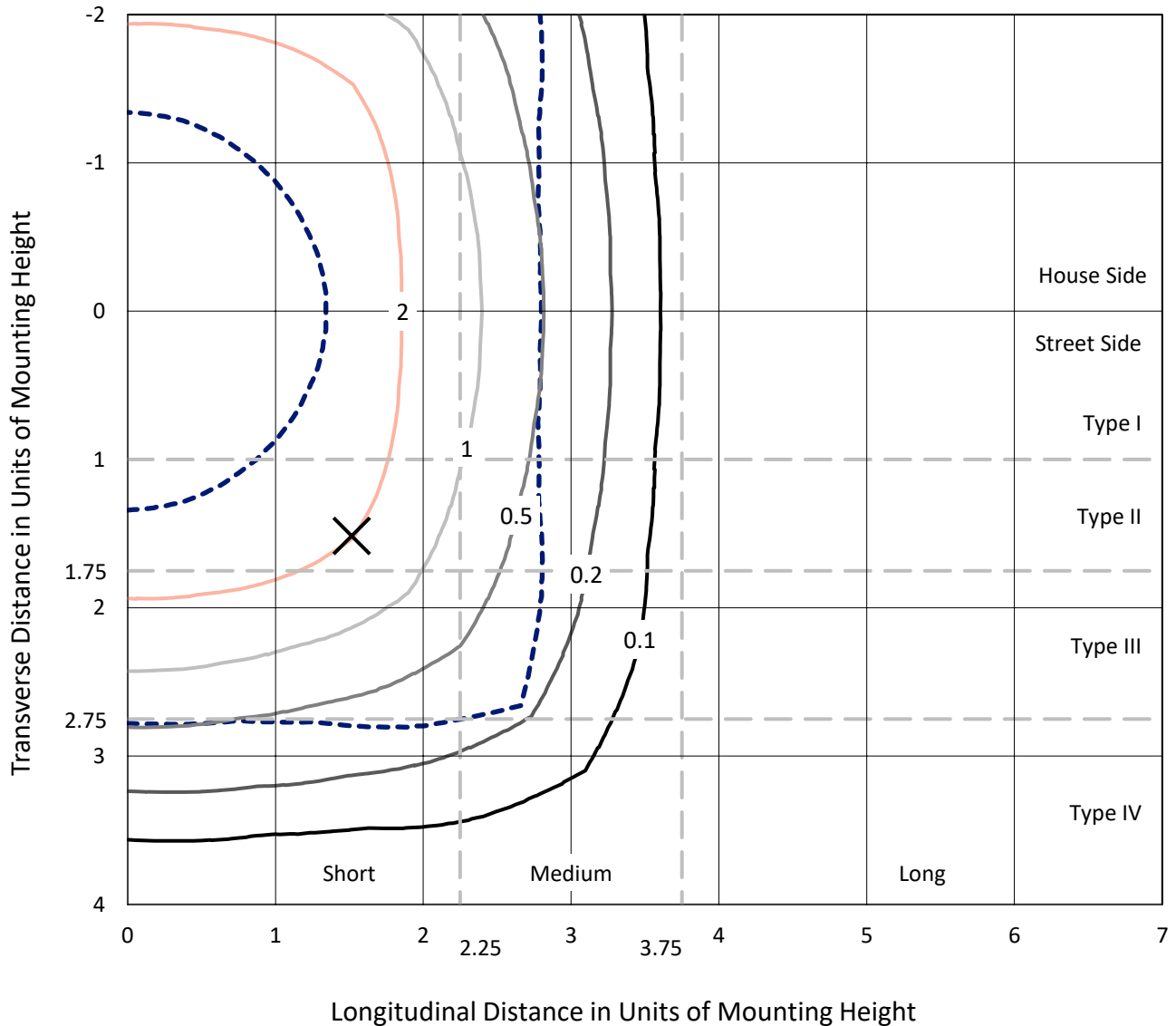
Lumens per Lamp: N/A
Luminaire Lumens: 52093.4 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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

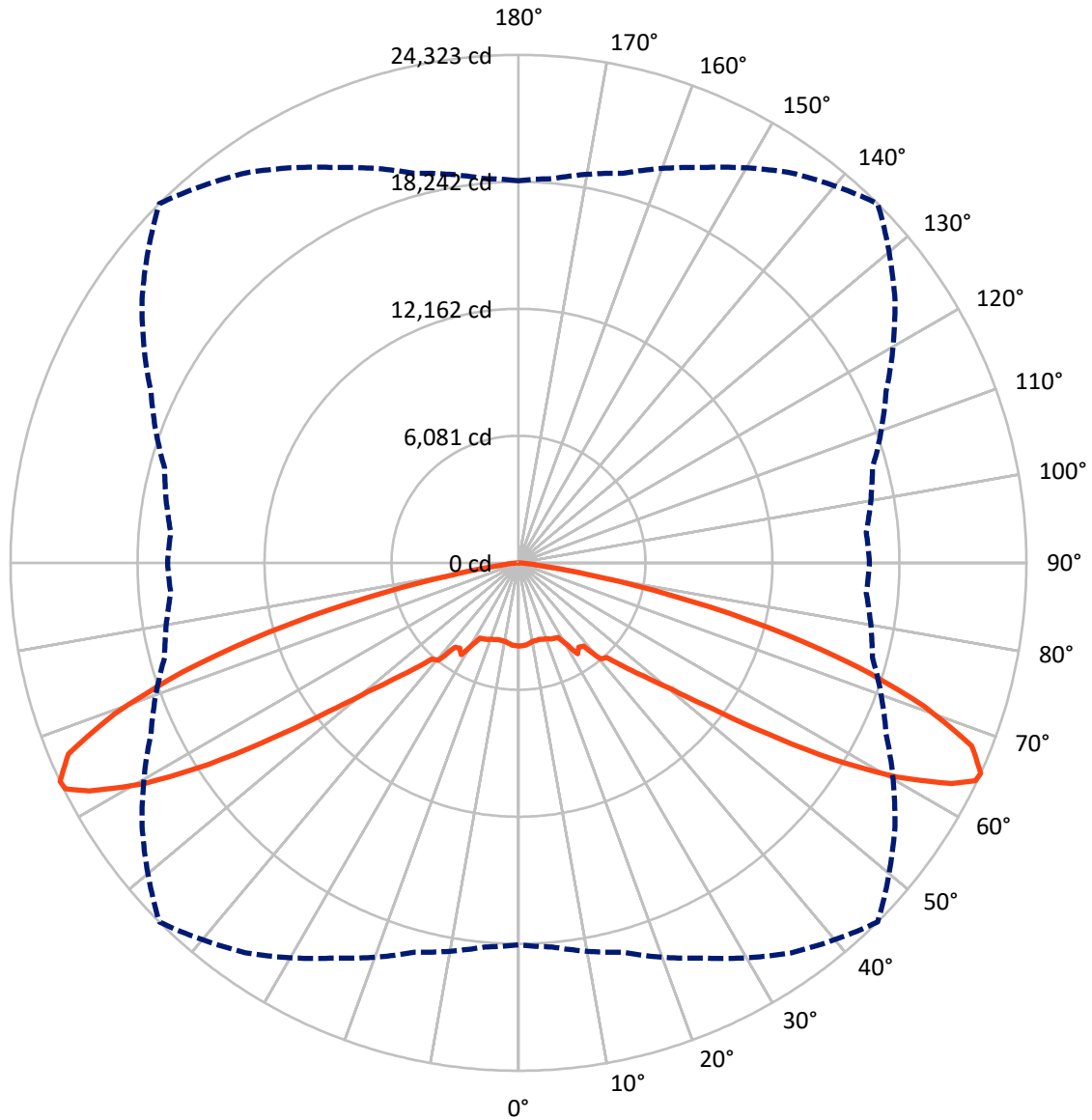
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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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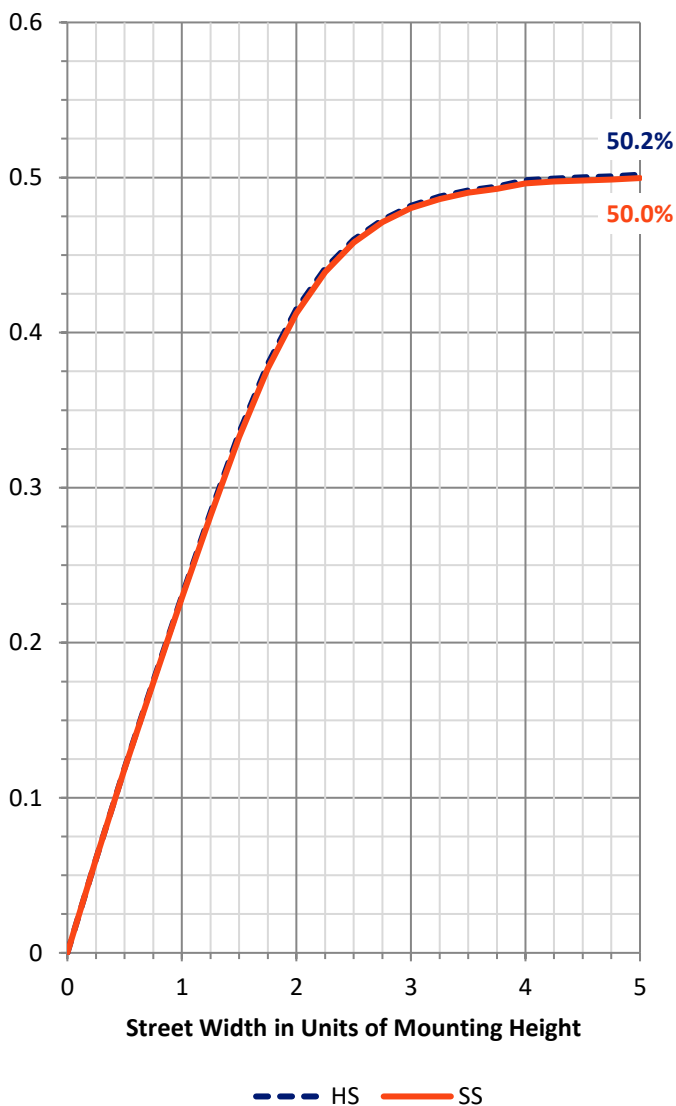
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26046.7	0.0	26046.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26046.7	0.0	26046.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	52093.4	0.0	52093.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	0.7
10°-20°	1097.9	2.1
20°-30°	1900.4	3.6
30°-40°	3160.0	6.1
40°-50°	5701.2	10.9
50°-60°	12700.3	24.4
60°-70°	18927.5	36.3
70°-80°	7843.8	15.1
80°-90°	388.5	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°	52093.4	100.0
0°-180°	52093.4	100.0

Coefficient of Utilization



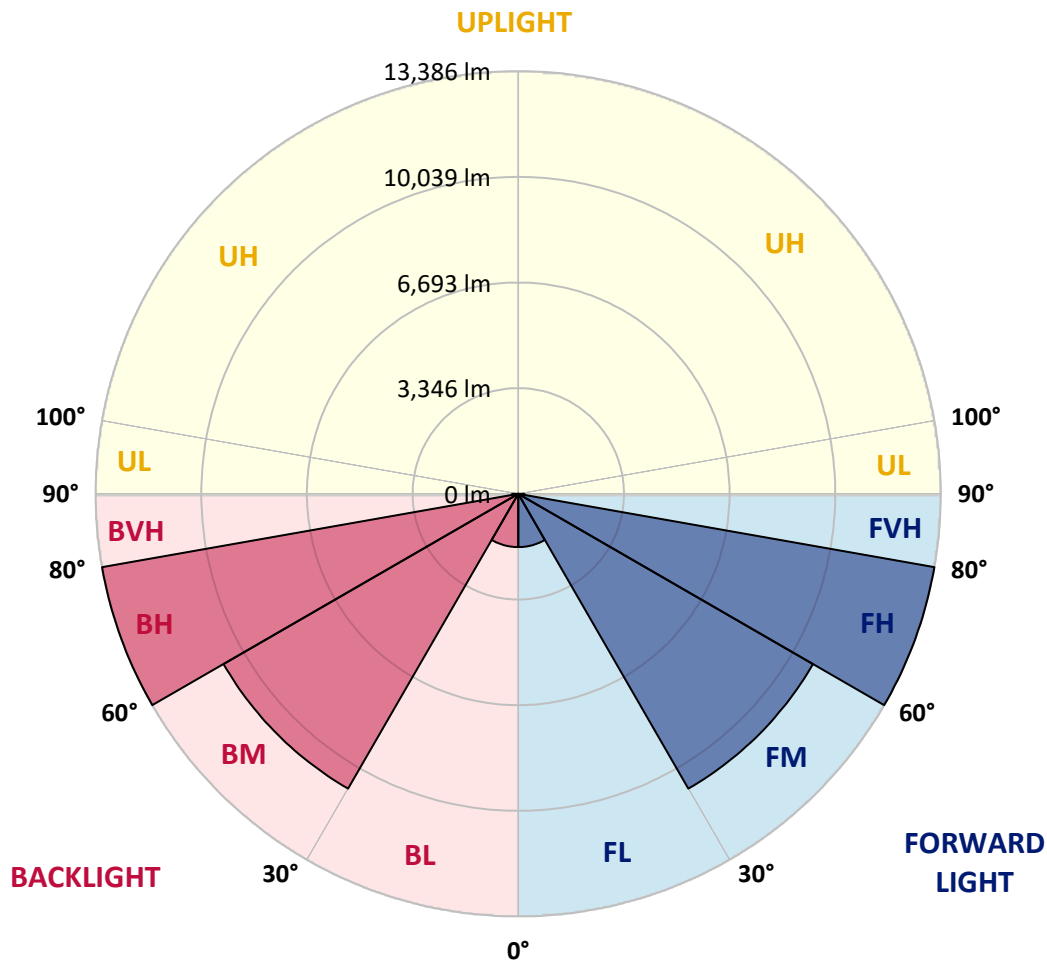
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.1	3.2			
FM (30°-60°)	10780.7	20.7			
FH (60°-80°)	13385.7	25.7			G5
FVH (80°-90°)	194.2	0.4			G2/225
BL (0°-30°)	1686.1	3.2	B3/2500		
BM (30°-60°)	10780.7	20.7	B5		
BH (60°-80°)	13385.7	25.7	B5		G5
BVH (80°-90°)	194.2	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°	3982.9	3982.9	3982.9	3982.9	3982.9	3982.9	3982.9	3982.9	3982.9	3982.9
2.5°	3936.8	3948.3	3942.6	3942.6	3959.8	3971.3	3977.1	4034.7	4011.6	4028.9
5°	3948.3	3948.3	3959.8	3948.3	3959.8	3948.3	3959.8	3942.6	3959.8	3971.3
7.5°	3925.3	3913.8	3896.5	3896.5	3890.8	3879.3	3862.0	3908.0	3885.0	3902.3
10°	3931.1	3913.8	3856.2	3867.7	3815.9	3815.9	3827.5	3827.5	3879.3	3936.8
12.5°	3931.1	3896.5	3879.3	3804.4	3804.4	3810.2	3839.0	3850.5	3885.0	3908.0
15°	3931.1	3913.8	3885.0	3787.2	3810.2	3798.7	3827.5	3827.5	3902.3	3942.6
17.5°	3954.1	3965.6	3913.8	3821.7	3827.5	3850.5	3833.2	3850.5	3942.6	3971.3
20°	3959.8	3913.8	3896.5	3839.0	3890.8	3879.3	3873.5	3908.0	3936.8	3988.6
22.5°	3948.3	3965.6	3896.5	3890.8	3936.8	3959.8	3971.3	3931.1	3965.6	4000.1
25°	4046.2	3982.9	3965.6	3954.1	3977.1	4000.1	3988.6	4023.1	4023.1	4063.4
27.5°	4310.9	4316.7	4282.1	4144.0	4098.0	4046.2	4069.2	4161.3	4270.6	4357.0
30°	4431.8	4454.8	4546.9	4523.9	4506.6	4523.9	4518.1	4541.1	4552.7	4558.4
32.5°	4541.1	4529.6	4489.3	4592.9	4932.5	5191.5	4944.0	4604.5	4529.6	4506.6
35°	4938.3	4938.3	4851.9	4719.6	4898.0	4961.3	4846.2	4685.0	4777.1	4967.1
37.5°	5450.5	5375.7	5410.2	5393.0	5197.3	5059.1	5260.6	5364.2	5381.5	5375.7
40°	5755.6	5703.8	5652.0	5744.1	5922.5	6049.1	5870.7	5623.2	5686.5	5813.1
42.5°	6452.0	6319.6	6331.1	6239.0	6233.3	6193.0	6152.7	6170.0	6262.1	6406.0
45°	7165.7	7229.0	7188.7	7016.0	7096.6	7096.6	6981.5	7067.8	7113.9	7280.8
47.5°	8282.3	8253.5	8270.8	8115.4	8109.6	8149.9	8109.6	8115.4	8259.2	8247.7
50°	9588.8	9669.4	9692.4	9617.6	9525.5	9508.2	9444.9	9525.5	9611.8	9617.6
52.5°	11396.0	11482.4	11482.4	11505.4	11620.5	11562.9	11551.4	11557.2	11390.3	11275.2
55°	13675.2	13704.0	13801.9	14003.3	14354.4	14400.4	14181.7	14083.9	13778.8	13594.7
57.5°	15925.7	16040.8	16311.3	16835.0	17266.7	17738.7	17105.6	16460.9	15862.4	15568.8
60°	17796.2	17963.1	18481.1	19212.1	20409.3	20840.9	19770.4	18665.3	17450.9	16553.0
62.5°	18676.8	18935.8	19373.3	20852.4	22648.2	23269.8	21698.5	19689.8	17848.0	16984.7
64°	18682.6	18722.9	19597.7	21192.0	23039.6	24242.5	22164.7	19689.8	17945.9	16881.1
65°	18297.0	18463.9	19309.9	20881.2	22792.1	24323.0	22003.6	19419.3	17543.0	16714.2
67.5°	16547.3	16541.5	17324.3	18884.0	21537.4	23407.9	20633.7	17905.6	16547.3	15649.4
70°	12552.9	12754.3	13502.6	15419.2	18636.5	20639.5	18043.7	15217.7	13525.6	12806.1
72.5°	7511.0	7775.8	8731.2	11068.0	14475.3	16909.9	14319.9	11257.9	9220.4	8080.8
75°	3424.6	3620.3	4276.4	6181.5	9646.3	12363.0	9703.9	6509.6	4667.8	3942.6
77.5°	961.2	1082.0	1444.6	2837.5	5295.1	7413.2	5444.8	3136.8	2037.5	1692.1
80°	431.7	454.7	512.2	690.7	1680.6	3269.2	2250.4	1151.1	765.5	633.1
82.5°	236.0	253.2	333.8	356.8	477.7	869.1	742.5	541.0	460.4	368.4
85°	132.4	138.1	189.9	189.9	230.2	253.2	270.5	287.8	282.0	207.2
87.5°	40.3	46.0	57.6	57.6	57.6	57.6	92.1	126.6	138.1	97.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
3982.9
4011.6
3988.6
3931.1
3954.1
3965.6
3971.3
4011.6
4034.7
4040.4
4115.2
4374.2
4541.1
4529.6
4978.6
5433.3
5761.3
6429.0
7303.8
8184.4
9565.8
11332.7
13738.6
15620.6
16915.6
16967.4
17076.8
16806.3
15758.8
12765.9
8109.6
3839.0
1657.6
604.3
356.8
201.4
97.8
0.0

OF REPORT)