

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: P574927

Luminaire Tested: **EPH-VN-07-730-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574927
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

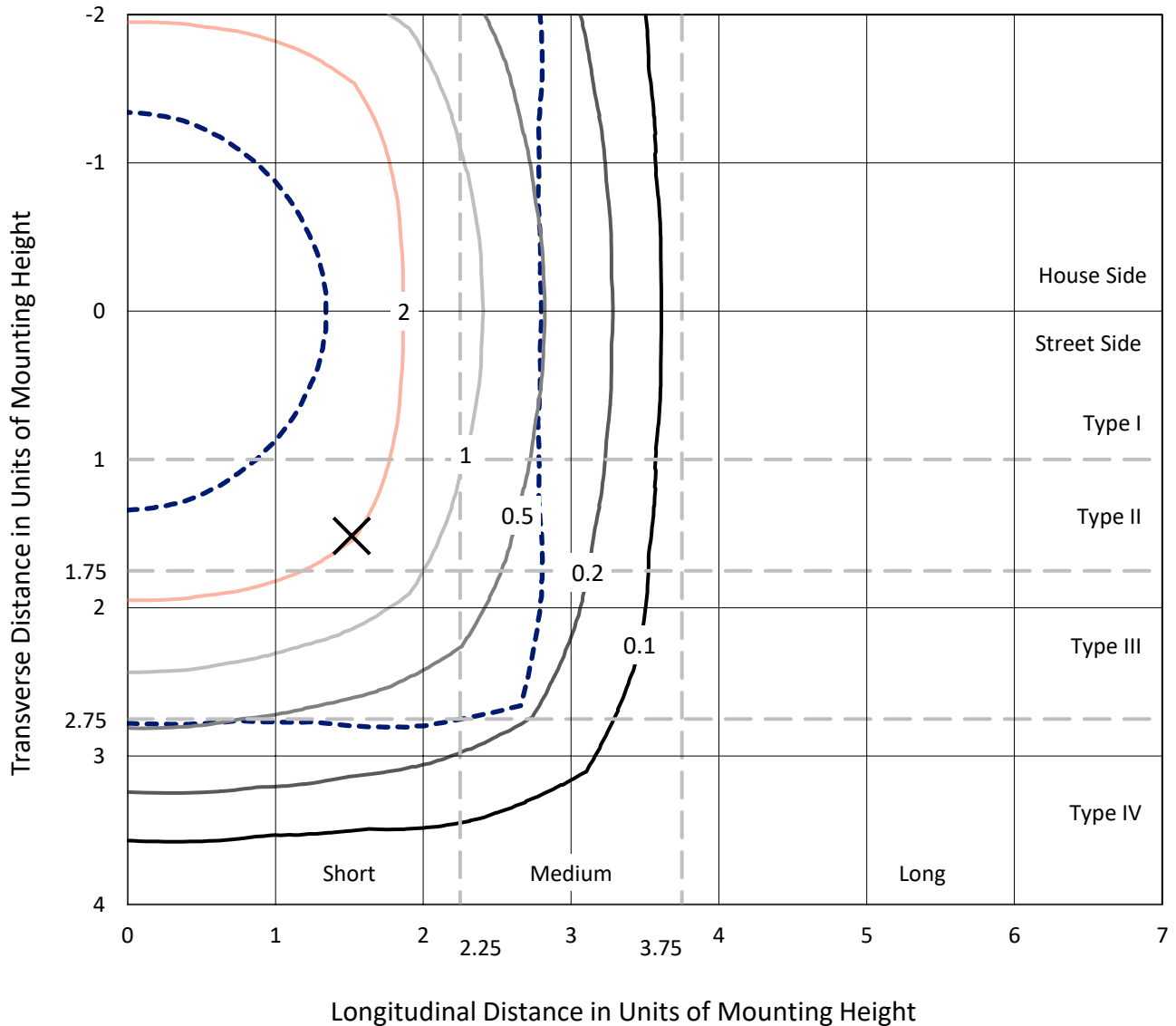
Lumens per Lamp: N/A
Luminaire Lumens: 52751 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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

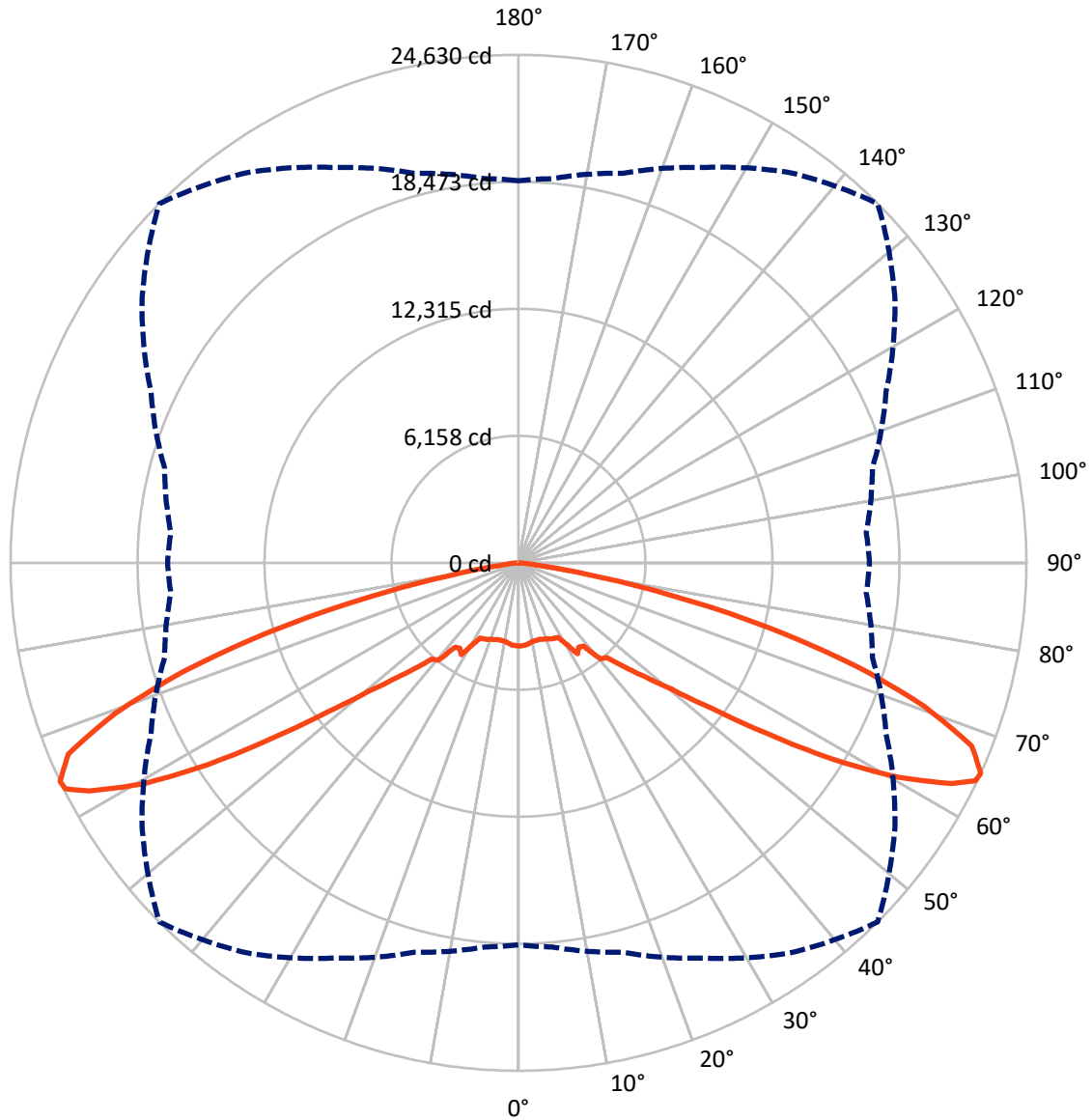
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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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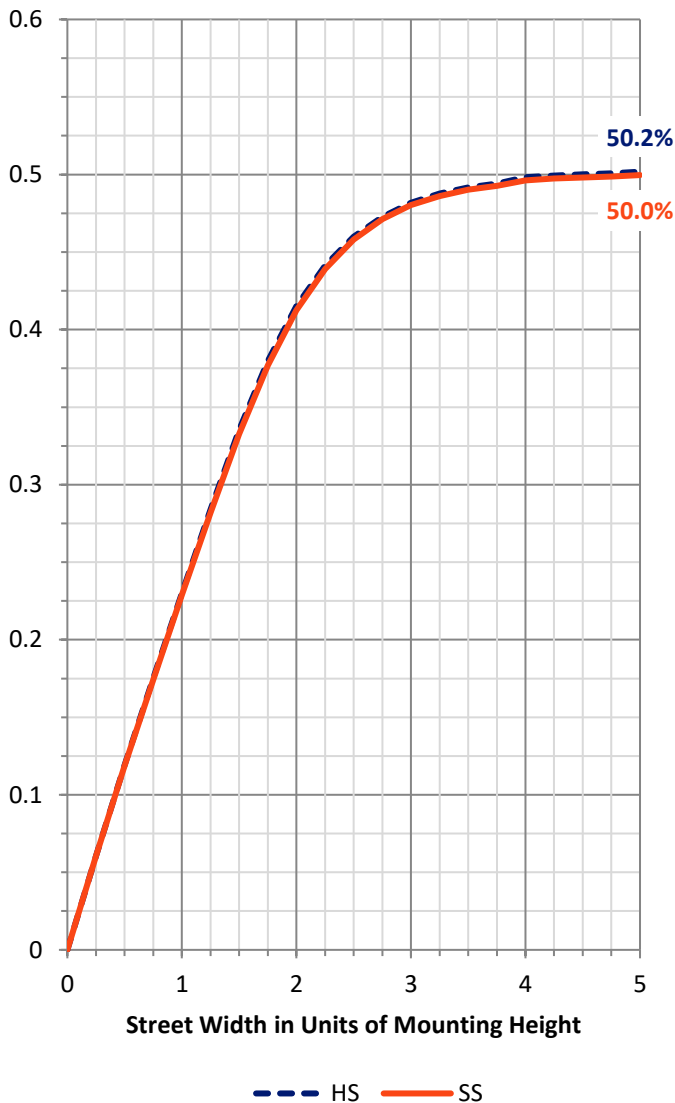
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26375.5	0.0	26375.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26375.5	0.0	26375.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52751.0	0.0	52751.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.5	0.7
10°-20°	1111.8	2.1
20°-30°	1924.4	3.6
30°-40°	3199.9	6.1
40°-50°	5773.1	10.9
50°-60°	12860.6	24.4
60°-70°	19166.5	36.3
70°-80°	7942.8	15.1
80°-90°	393.4	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°	52751.0	100.0
0°-180°	52751.0	100.0

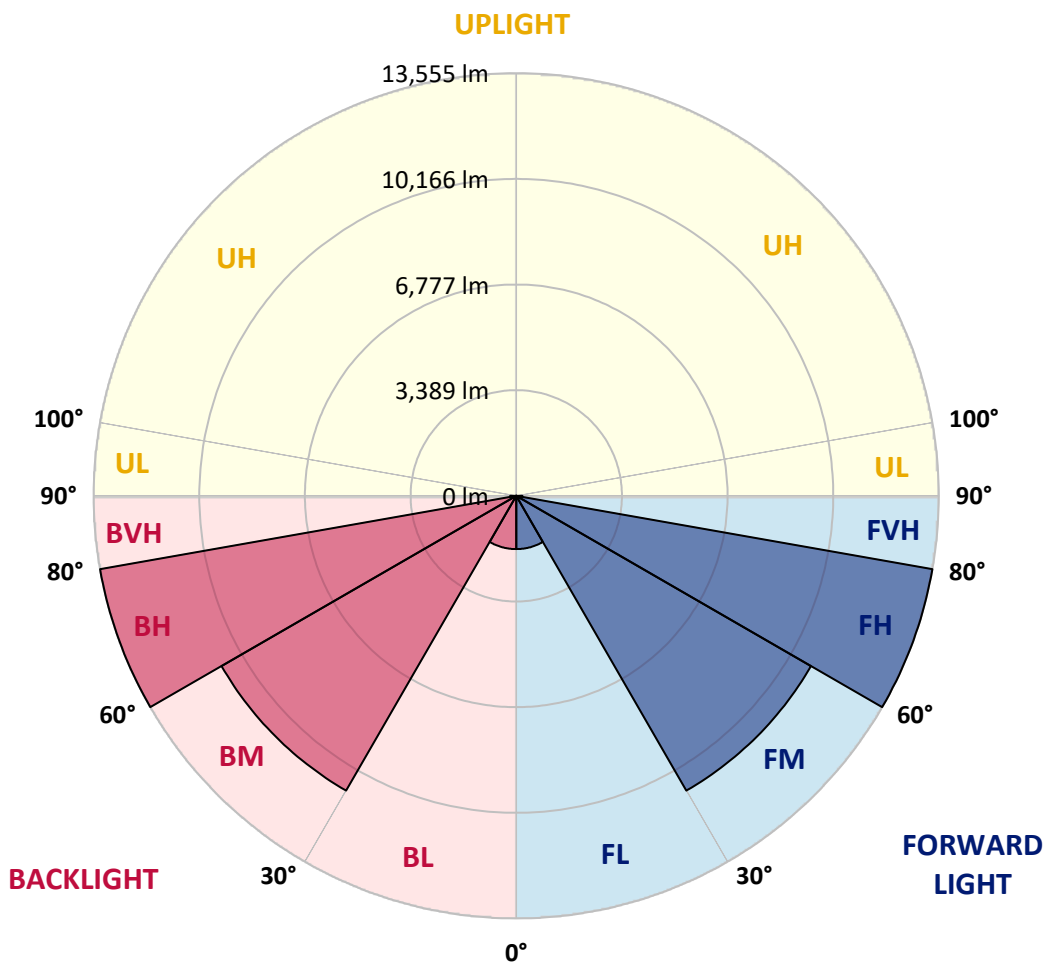


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.3	3.2			
FM (30°-60°)	10916.8	20.7			
FH (60°-80°)	13554.6	25.7			G5
FVH (80°-90°)	196.7	0.4			G2/225
BL (0°-30°)	1707.3	3.2	B3/2500		
BM (30°-60°)	10916.8	20.7	B5		
BH (60°-80°)	13554.6	25.7	B5		G5
BVH (80°-90°)	196.7	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°	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1
2.5°	3986.5	3998.2	3992.3	3992.3	4009.8	4021.5	4027.3	4085.6	4062.3	4079.8
5°	3998.2	3998.2	4009.8	3998.2	4009.8	3998.2	4009.8	3992.3	4009.8	4021.5
7.5°	3974.9	3963.2	3945.7	3945.7	3939.9	3928.2	3910.7	3957.4	3934.1	3951.5
10°	3980.7	3963.2	3904.9	3916.6	3864.1	3864.1	3875.8	3875.8	3928.2	3986.5
12.5°	3980.7	3945.7	3928.2	3852.5	3852.5	3858.3	3887.4	3899.1	3934.1	3957.4
15°	3980.7	3963.2	3934.1	3835.0	3858.3	3846.6	3875.8	3875.8	3951.5	3992.3
17.5°	4004.0	4015.7	3963.2	3869.9	3875.8	3899.1	3881.6	3899.1	3992.3	4021.5
20°	4009.8	3963.2	3945.7	3887.4	3939.9	3928.2	3922.4	3957.4	3986.5	4039.0
22.5°	3998.2	4015.7	3945.7	3939.9	3986.5	4009.8	4021.5	3980.7	4015.7	4050.6
25°	4097.2	4033.1	4015.7	4004.0	4027.3	4050.6	4039.0	4073.9	4073.9	4114.7
27.5°	4365.3	4371.2	4336.2	4196.3	4149.7	4097.2	4120.6	4213.8	4324.5	4412.0
30°	4487.7	4511.1	4604.3	4581.0	4563.5	4581.0	4575.2	4598.5	4610.1	4616.0
32.5°	4598.5	4586.8	4546.0	4650.9	4994.8	5257.1	5006.5	4662.6	4586.8	4563.5
35°	5000.6	5000.6	4913.2	4779.2	4959.8	5023.9	4907.4	4744.2	4837.4	5029.8
37.5°	5519.3	5443.6	5478.5	5461.1	5262.9	5123.0	5327.0	5431.9	5449.4	5443.6
40°	5828.2	5775.8	5723.3	5816.6	5997.3	6125.5	5944.8	5694.2	5758.3	5886.5
42.5°	6533.5	6399.4	6411.1	6317.8	6312.0	6271.2	6230.4	6247.9	6341.1	6486.8
45°	7256.2	7320.3	7279.5	7104.6	7186.2	7186.2	7069.6	7157.1	7203.7	7372.7
47.5°	8386.8	8357.7	8375.2	8217.8	8212.0	8252.8	8212.0	8217.8	8363.5	8351.9
50°	9709.8	9791.4	9814.7	9739.0	9645.7	9628.2	9564.1	9645.7	9733.2	9739.0
52.5°	11539.9	11627.3	11627.3	11650.6	11767.2	11708.9	11697.3	11703.1	11534.1	11417.5
55°	13847.9	13877.0	13976.1	14180.1	14535.6	14582.2	14360.8	14261.7	13952.8	13766.3
57.5°	16126.7	16243.3	16517.2	17047.6	17484.7	17962.6	17321.5	16668.7	16062.6	15765.4
60°	18020.9	18189.9	18714.5	19454.6	20666.9	21104.0	20020.0	18901.0	17671.2	16762.0
62.5°	18912.6	19174.9	19617.8	21115.7	22934.1	23563.5	21972.4	19938.4	18073.4	17199.1
64°	18918.4	18959.2	19845.1	21459.6	23330.4	24548.5	22444.5	19938.4	18172.4	17094.2
65°	18528.0	18697.0	19553.7	21144.8	23079.8	24630.1	22281.3	19664.5	17764.5	16925.2
67.5°	16756.2	16750.3	17543.0	19122.4	21809.3	23703.4	20894.2	18131.6	16756.2	15847.0
70°	12711.4	12915.4	13673.0	15613.8	18871.8	20900.0	18271.5	15409.9	13696.3	12967.8
72.5°	7605.8	7873.9	8841.4	11207.7	14658.0	17123.4	14500.6	11400.0	9336.8	8182.8
75°	3467.8	3666.0	4330.4	6259.5	9768.1	12519.0	9826.4	6591.7	4726.7	3992.3
77.5°	973.3	1095.7	1462.9	2873.3	5362.0	7506.8	5513.5	3176.4	2063.2	1713.5
80°	437.1	460.4	518.7	699.4	1701.8	3310.4	2278.8	1165.6	775.2	641.1
82.5°	239.0	256.4	338.0	361.4	483.7	880.1	751.8	547.9	466.3	373.0
85°	134.0	139.9	192.3	192.3	233.1	256.4	273.9	291.4	285.6	209.8
87.5°	40.8	46.6	58.3	58.3	58.3	58.3	93.3	128.2	139.9	99.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
4033.1
4062.3
4039.0
3980.7
4004.0
4015.7
4021.5
4062.3
4085.6
4091.4
4167.2
4429.5
4598.5
4586.8
5041.4
5501.9
5834.1
6510.1
7396.0
8287.7
9686.5
11475.8
13912.0
15817.8
17129.2
17181.6
17292.4
17018.4
15957.7
12927.0
8212.0
3887.4
1678.5
612.0
361.4
204.0
99.1
0.0

OF REPORT)