

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: P574939

Luminaire Tested: **EPH-VN-07-740-U-5WQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574939  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-740-U-5WQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

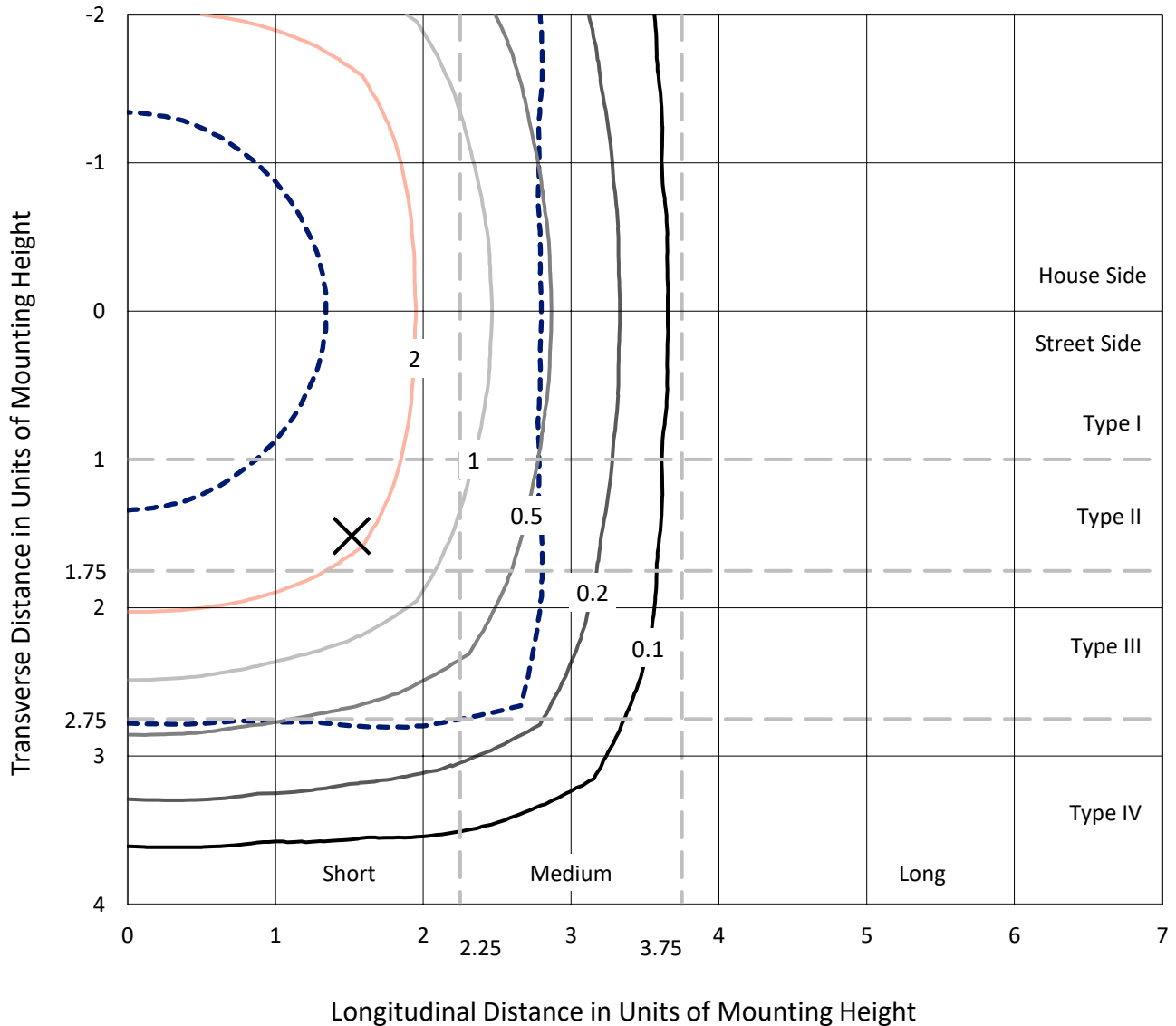
Lumens per Lamp: N/A  
Luminaire Lumens: 57929.9 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

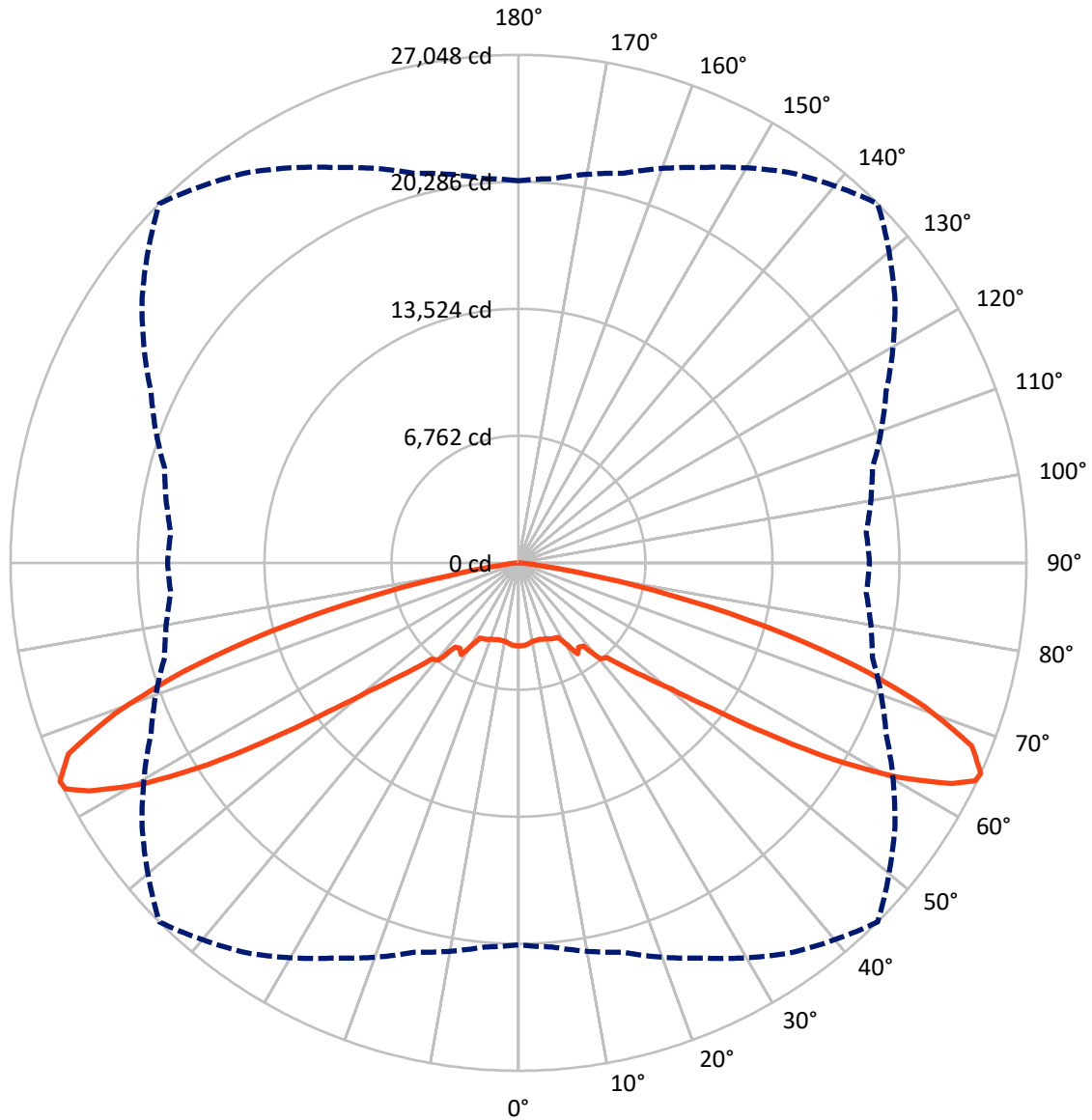
× Max cd  
 - - - 1/2 Max cd



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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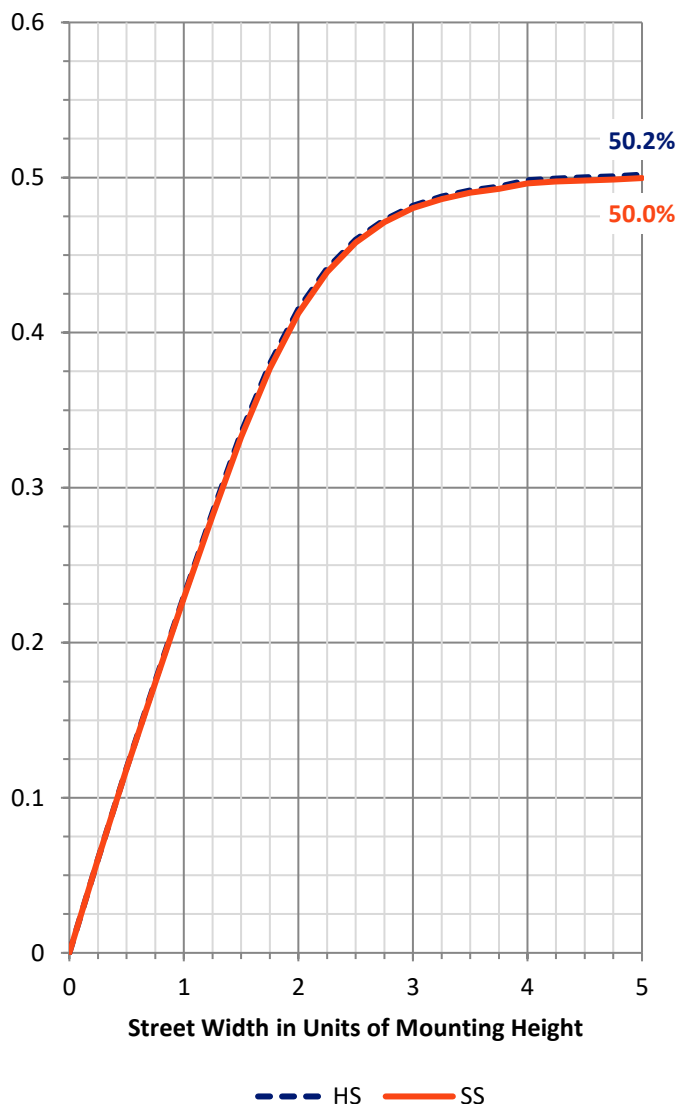
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28965.0	0.0	28965.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28965.0	0.0	28965.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	57929.9	0.0	57929.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.6	0.7
10°-20°	1220.9	2.1
20°-30°	2113.3	3.6
30°-40°	3514.1	6.1
40°-50°	6339.9	10.9
50°-60°	14123.2	24.4
60°-70°	21048.2	36.3
70°-80°	8722.6	15.1
80°-90°	432.0	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°	57929.9	100.0
0°-180°	57929.9	100.0

**Coefficient of Utilization**



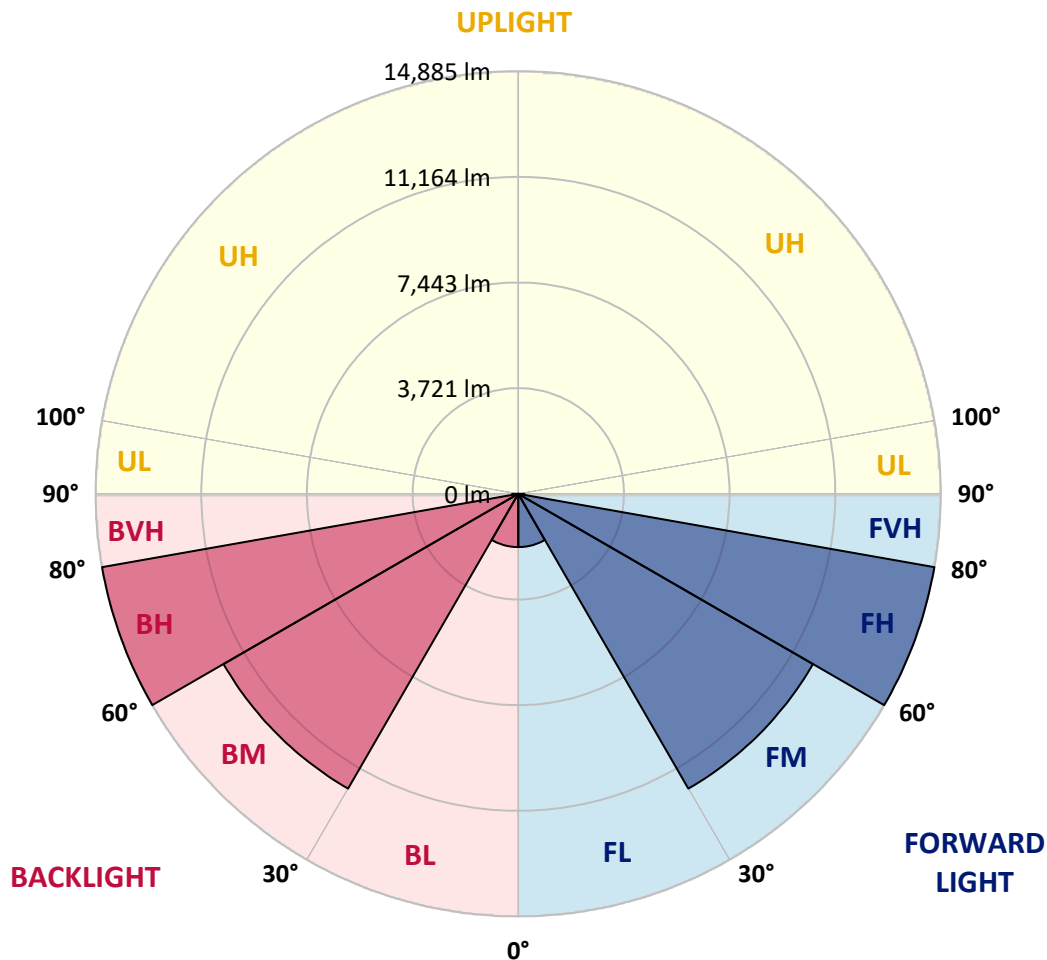
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1875.0	3.2			
FM (30°-60°)	11988.6	20.7			
FH (60°-80°)	14885.4	25.7			G5
FVH (80°-90°)	216.0	0.4			G2/225
BL (0°-30°)	1875.0	3.2	B3/2500		
BM (30°-60°)	11988.6	20.7	B5		
BH (60°-80°)	14885.4	25.7	B5		G5
BVH (80°-90°)	216.0	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°	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1
2.5°	4377.9	4390.7	4384.3	4384.3	4403.5	4416.3	4422.7	4486.7	4461.1	4480.3
5°	4390.7	4390.7	4403.5	4390.7	4403.5	4390.7	4403.5	4384.3	4403.5	4416.3
7.5°	4365.1	4352.3	4333.1	4333.1	4326.7	4313.9	4294.7	4345.9	4320.3	4339.5
10°	4371.5	4352.3	4288.3	4301.1	4243.5	4243.5	4256.3	4256.3	4313.9	4377.9
12.5°	4371.5	4333.1	4313.9	4230.7	4230.7	4237.1	4269.1	4281.9	4320.3	4345.9
15°	4371.5	4352.3	4320.3	4211.5	4237.1	4224.3	4256.3	4256.3	4339.5	4384.3
17.5°	4397.1	4409.9	4352.3	4249.9	4256.3	4281.9	4262.7	4281.9	4384.3	4416.3
20°	4403.5	4352.3	4333.1	4269.1	4326.7	4313.9	4307.5	4345.9	4377.9	4435.5
22.5°	4390.7	4409.9	4333.1	4326.7	4377.9	4403.5	4416.3	4371.5	4409.9	4448.3
25°	4499.5	4429.1	4409.9	4397.1	4422.7	4448.3	4435.5	4473.9	4473.9	4518.7
27.5°	4793.9	4800.3	4761.9	4608.3	4557.1	4499.5	4525.1	4627.5	4749.1	4845.1
30°	4928.3	4953.9	5056.3	5030.7	5011.5	5030.7	5024.3	5049.9	5062.7	5069.1
32.5°	5049.9	5037.1	4992.3	5107.5	5485.2	5773.2	5498.0	5120.3	5037.1	5011.5
35°	5491.6	5491.6	5395.6	5248.4	5446.8	5517.2	5389.2	5210.0	5312.4	5523.6
37.5°	6061.2	5978.0	6016.4	5997.2	5779.6	5626.0	5850.0	5965.2	5984.4	5978.0
40°	6400.4	6342.8	6285.2	6387.6	6586.0	6726.9	6528.4	6253.2	6323.6	6464.4
42.5°	7174.9	7027.7	7040.5	6938.1	6931.7	6886.9	6842.1	6861.3	6963.7	7123.7
45°	7968.5	8038.9	7994.1	7802.1	7891.7	7891.7	7763.7	7859.7	7910.9	8096.5
47.5°	9210.2	9178.2	9197.4	9024.6	9018.2	9063.0	9018.2	9024.6	9184.6	9171.8
50°	10663.1	10752.7	10778.3	10695.1	10592.7	10573.5	10503.1	10592.7	10688.7	10695.1
52.5°	12672.9	12768.9	12768.9	12794.5	12922.5	12858.5	12845.7	12852.1	12666.5	12538.4
55°	15207.4	15239.4	15348.2	15572.3	15962.7	16013.9	15770.7	15661.9	15322.6	15117.8
57.5°	17710.0	17838.0	18138.8	18721.3	19201.3	19726.1	19022.1	18305.2	17639.6	17313.2
60°	19790.1	19975.7	20551.8	21364.6	22695.9	23176.0	21985.5	20756.6	19406.1	18407.6
62.5°	20769.4	21057.4	21543.9	23188.8	25185.7	25876.9	24129.6	21895.9	19847.7	18887.7
64°	20775.8	20820.6	21793.5	23566.4	25620.9	26958.6	24648.1	21895.9	19956.5	18772.5
65°	20347.0	20532.6	21473.5	23220.8	25345.7	27048.2	24468.9	21595.1	19508.5	18586.9
67.5°	18401.2	18394.8	19265.3	20999.8	23950.4	26030.6	22945.6	19911.7	18401.2	17402.8
70°	13959.3	14183.4	15015.4	17146.8	20724.6	22952.0	20065.4	16922.7	15041.0	14241.0
72.5°	8352.6	8647.0	9709.5	12308.0	16097.1	18804.5	15924.3	12519.2	10253.5	8986.2
75°	3808.3	4025.9	4755.5	6874.1	10727.1	13748.1	10791.1	7238.9	5190.8	4384.3
77.5°	1068.9	1203.3	1606.5	3155.4	5888.4	8243.8	6054.8	3488.2	2265.8	1881.7
80°	480.0	505.6	569.6	768.1	1868.9	3635.4	2502.6	1280.1	851.3	704.0
82.5°	262.4	281.6	371.2	396.8	531.2	966.5	825.7	601.6	512.0	409.6
85°	147.2	153.6	211.2	211.2	256.0	281.6	300.8	320.0	313.6	230.4
87.5°	44.8	51.2	64.0	64.0	64.0	64.0	102.4	140.8	153.6	108.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°  
4429.1  
4461.1  
4435.5  
4371.5  
4397.1  
4409.9  
4416.3  
4461.1  
4486.7  
4493.1  
4576.3  
4864.3  
5049.9  
5037.1  
5536.4  
6042.0  
6406.8  
7149.3  
8122.1  
9101.4  
10637.5  
12602.5  
15277.8  
17370.8  
18810.9  
18868.5  
18990.1  
**18689.3**  
17524.4  
14196.2  
9018.2  
4269.1  
1843.3  
672.0  
396.8  
224.0  
108.8  
0.0

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