

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: P574926

Luminaire Tested: **EPH-VN-06-730-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574926
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-730-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

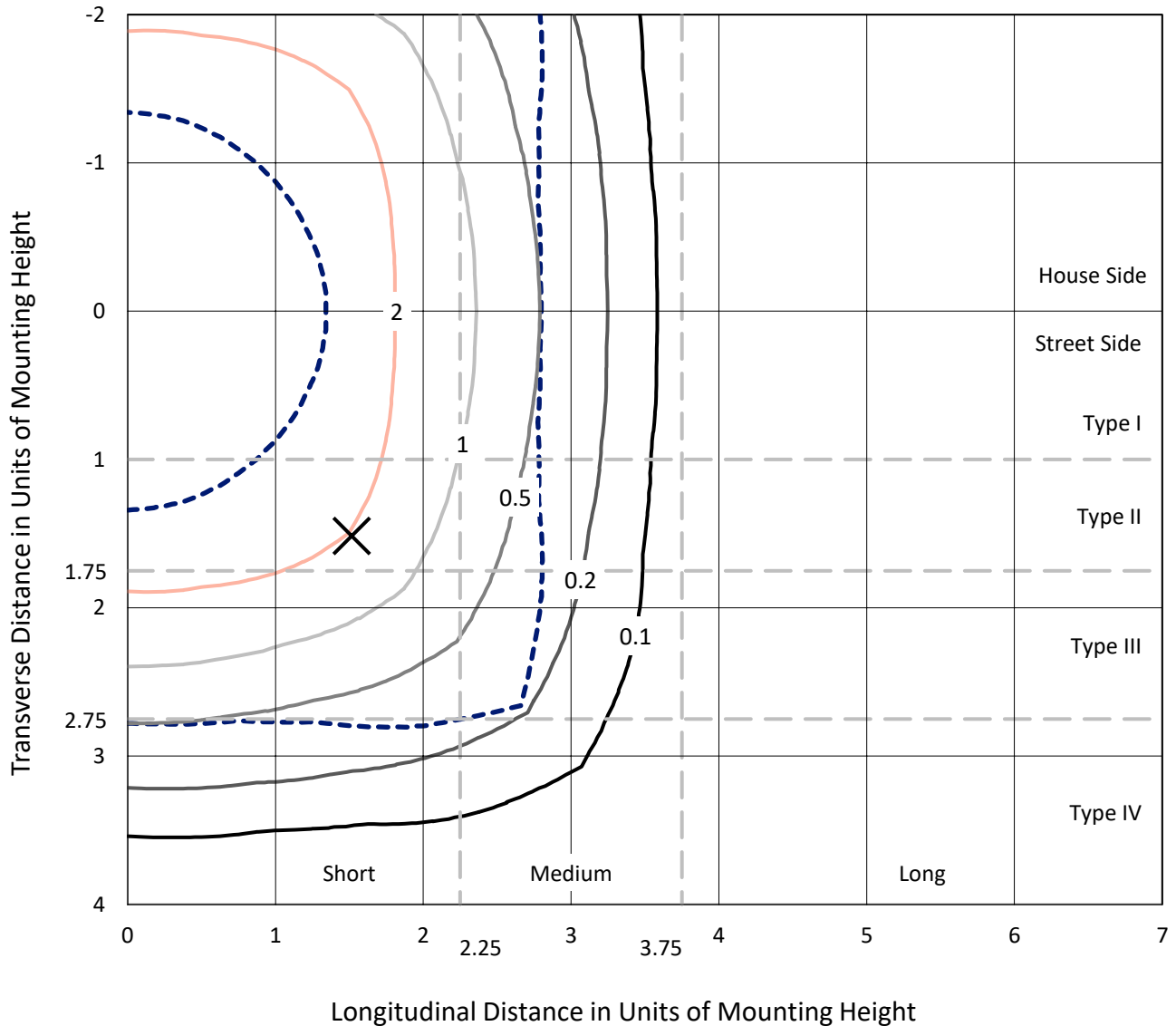
Lumens per Lamp: N/A
Luminaire Lumens: 49444.5 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 464.2
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

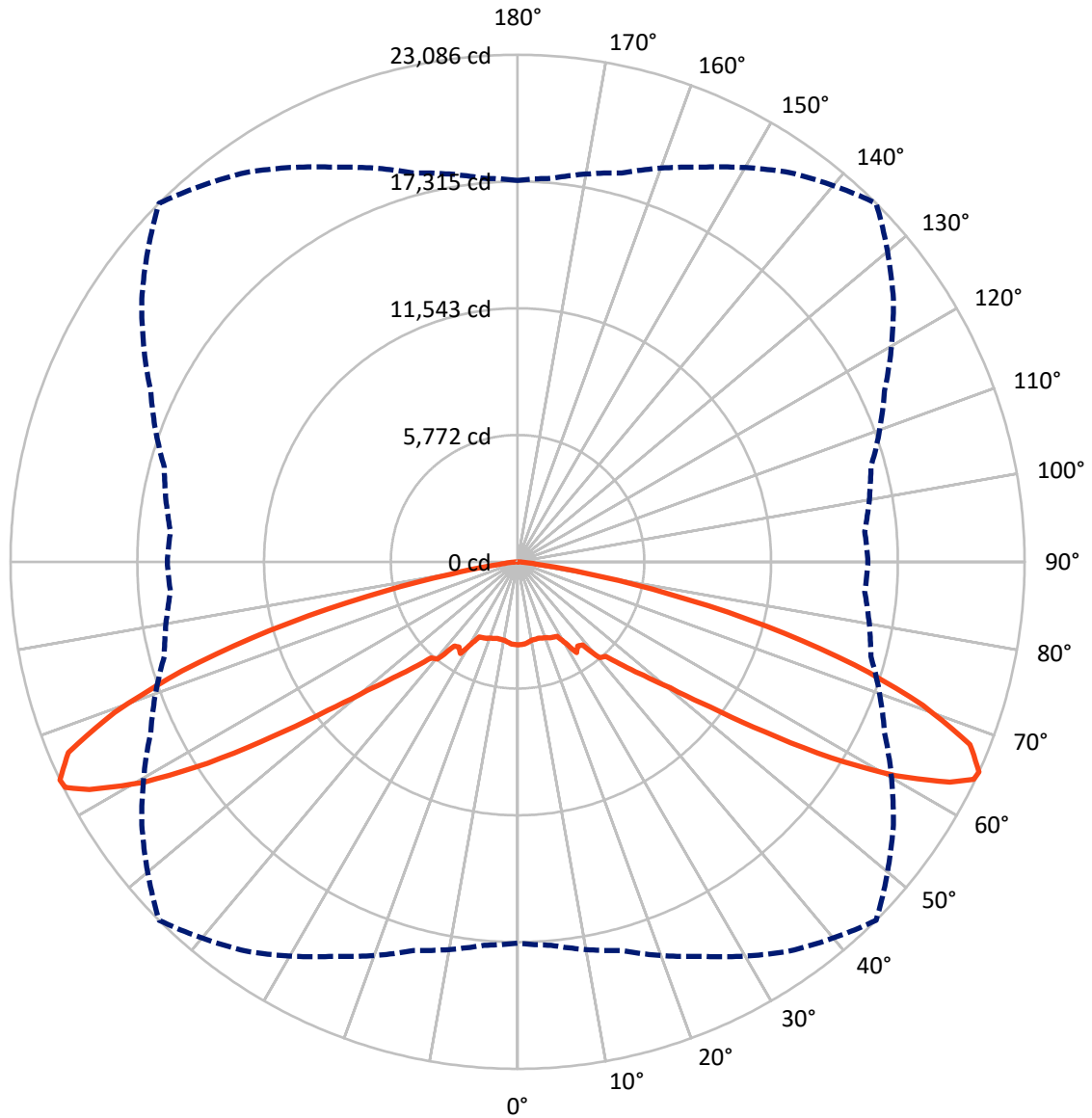
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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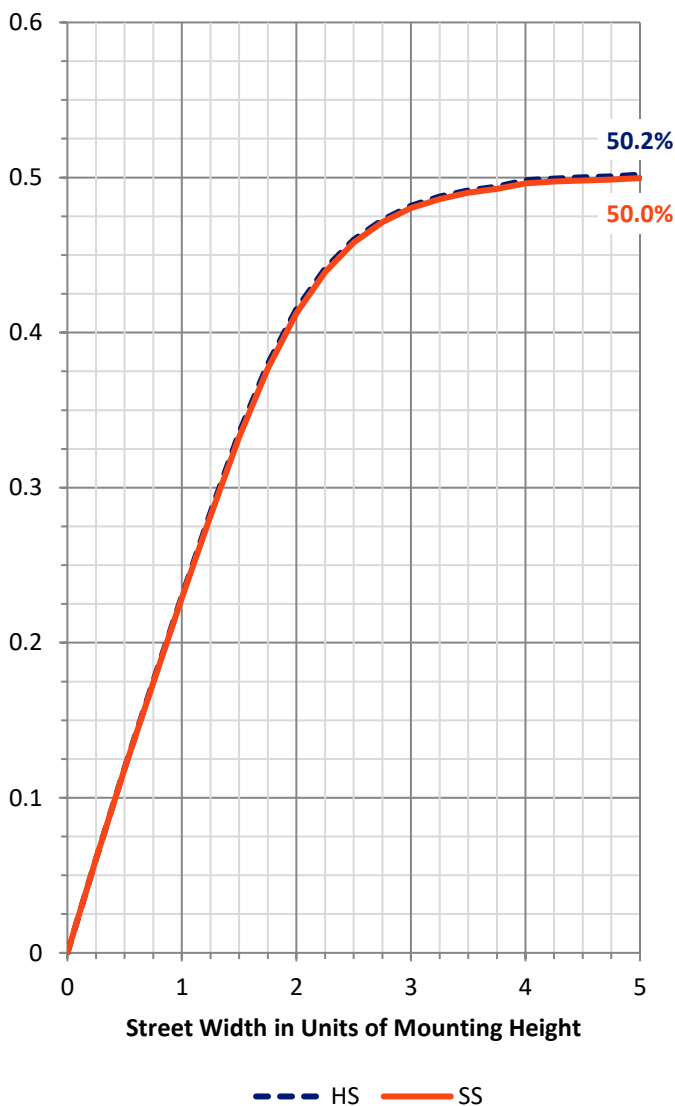
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24722.2	0.0	24722.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24722.2	0.0	24722.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	49444.5	0.0	49444.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.8	0.7
10°-20°	1042.1	2.1
20°-30°	1803.8	3.6
30°-40°	2999.3	6.1
40°-50°	5411.3	10.9
50°-60°	12054.5	24.4
60°-70°	17965.1	36.3
70°-80°	7444.9	15.1
80°-90°	368.7	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°	49444.5	100.0
0°-180°	49444.5	100.0

Coefficient of Utilization



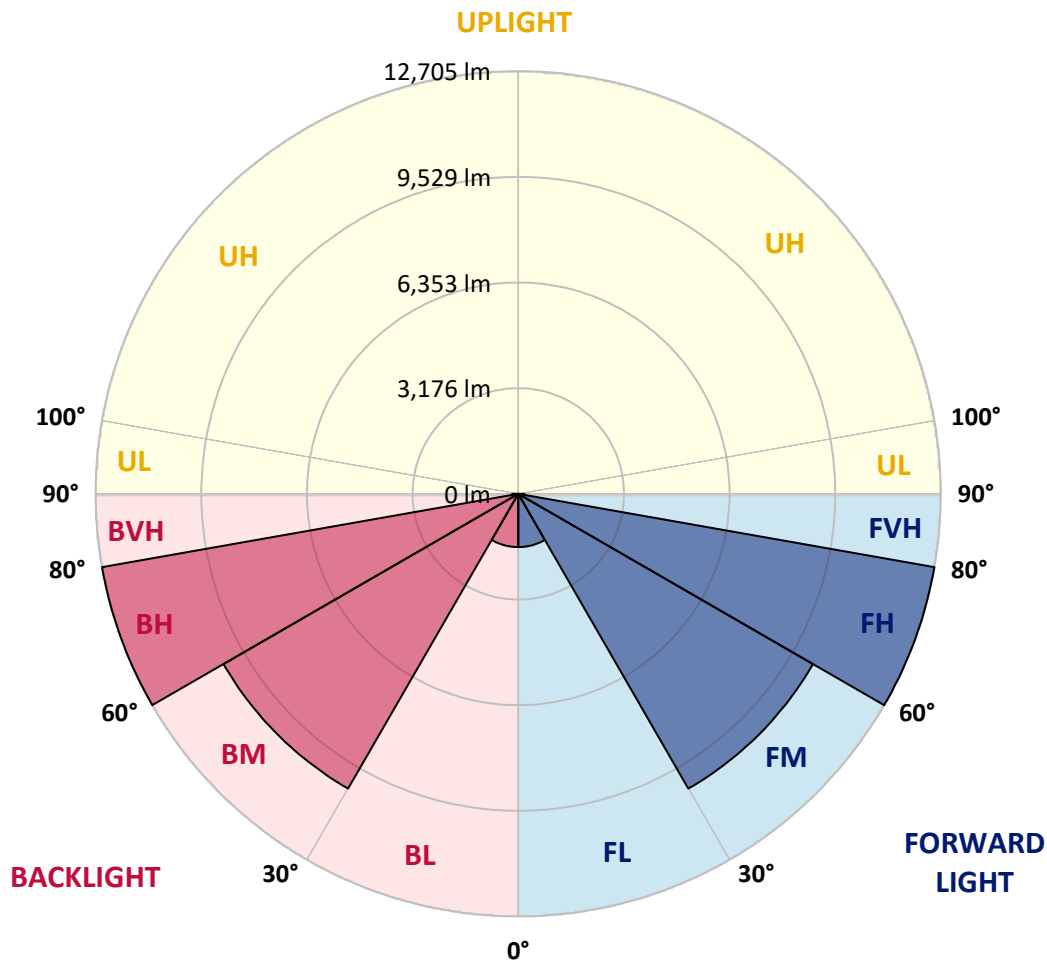
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.3	3.2			
FM (30°-60°)	10232.5	20.7			
FH (60°-80°)	12705.0	25.7			G5
FVH (80°-90°)	184.4	0.4			G2/225
BL (0°-30°)	1600.3	3.2	B3/2500		
BM (30°-60°)	10232.5	20.7	B5		
BH (60°-80°)	12705.0	25.7	B5		G5
BVH (80°-90°)	184.4	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°	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3
2.5°	3736.6	3747.6	3742.1	3742.1	3758.5	3769.4	3774.9	3829.5	3807.6	3824.0
5°	3747.6	3747.6	3758.5	3747.6	3758.5	3747.6	3758.5	3742.1	3758.5	3769.4
7.5°	3725.7	3714.8	3698.4	3698.4	3692.9	3682.0	3665.6	3709.3	3687.5	3703.9
10°	3731.2	3714.8	3660.2	3671.1	3621.9	3621.9	3632.8	3632.8	3682.0	3736.6
12.5°	3731.2	3698.4	3682.0	3611.0	3611.0	3616.4	3643.8	3654.7	3687.5	3709.3
15°	3731.2	3714.8	3687.5	3594.6	3616.4	3605.5	3632.8	3632.8	3703.9	3742.1
17.5°	3753.0	3763.9	3714.8	3627.4	3632.8	3654.7	3638.3	3654.7	3742.1	3769.4
20°	3758.5	3714.8	3698.4	3643.8	3692.9	3682.0	3676.5	3709.3	3736.6	3785.8
22.5°	3747.6	3763.9	3698.4	3692.9	3736.6	3758.5	3769.4	3731.2	3763.9	3796.7
25°	3840.4	3780.3	3763.9	3753.0	3774.9	3796.7	3785.8	3818.6	3818.6	3856.8
27.5°	4091.7	4097.2	4064.4	3933.3	3889.6	3840.4	3862.3	3949.7	4053.5	4135.4
30°	4206.4	4228.3	4315.7	4293.8	4277.5	4293.8	4288.4	4310.2	4321.2	4326.6
32.5°	4310.2	4299.3	4261.1	4359.4	4681.7	4927.5	4692.6	4370.3	4299.3	4277.5
35°	4687.2	4687.2	4605.2	4479.6	4648.9	4709.0	4599.8	4446.8	4534.2	4714.5
37.5°	5173.4	5102.4	5135.1	5118.7	4933.0	4801.9	4993.1	5091.4	5107.8	5102.4
40°	5462.9	5413.7	5364.6	5452.0	5621.3	5741.5	5572.2	5337.3	5397.4	5517.5
42.5°	6123.9	5998.3	6009.2	5921.8	5916.3	5878.1	5839.9	5856.2	5943.6	6080.2
45°	6801.3	6861.4	6823.2	6659.3	6735.8	6735.8	6626.5	6708.5	6752.2	6910.6
47.5°	7861.1	7833.8	7850.2	7702.7	7697.2	7735.5	7697.2	7702.7	7839.3	7828.4
50°	9101.2	9177.7	9199.5	9128.5	9041.1	9024.7	8964.6	9041.1	9123.1	9128.5
52.5°	10816.6	10898.5	10898.5	10920.4	11029.6	10975.0	10964.1	10969.5	10811.1	10701.8
55°	12979.9	13007.2	13100.1	13291.3	13624.5	13668.2	13460.6	13367.7	13078.2	12903.4
57.5°	15115.9	15225.1	15481.9	15979.0	16388.7	16836.7	16235.8	15623.9	15055.8	14777.2
60°	16891.3	17049.7	17541.4	18235.2	19371.5	19781.2	18765.1	17716.2	16563.5	15711.3
62.5°	17727.1	17973.0	18388.2	19792.1	21496.6	22086.5	20595.2	18688.6	16940.5	16121.1
64°	17732.6	17770.8	18601.2	20114.4	21868.0	23009.8	21037.7	18688.6	17033.4	16022.7
65°	17366.6	17525.0	18328.1	19819.4	21633.1	23086.3	20884.7	18431.9	16651.0	15864.3
67.5°	15705.9	15700.4	16443.4	17923.8	20442.2	22217.7	19584.5	16995.1	15705.9	14853.7
70°	11914.6	12105.8	12816.0	14635.1	17688.9	19590.0	17126.2	14443.9	12837.8	12155.0
72.5°	7129.1	7380.4	8287.2	10505.2	13739.2	16050.0	13591.7	10685.5	8751.6	7669.9
75°	3250.4	3436.2	4058.9	5867.2	9155.8	11734.3	9210.5	6178.6	4430.4	3742.1
77.5°	912.3	1027.0	1371.2	2693.2	5025.9	7036.2	5167.9	2977.3	1933.9	1606.1
80°	409.7	431.6	486.2	655.5	1595.2	3102.9	2136.0	1092.6	726.6	600.9
82.5°	224.0	240.4	316.8	338.7	453.4	824.9	704.7	513.5	437.0	349.6
85°	125.6	131.1	180.3	180.3	218.5	240.4	256.8	273.1	267.7	196.7
87.5°	38.2	43.7	54.6	54.6	54.6	54.6	87.4	120.2	131.1	92.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
3780.3
3807.6
3785.8
3731.2
3753.0
3763.9
3769.4
3807.6
3829.5
3835.0
3906.0
4151.8
4310.2
4299.3
4725.4
5157.0
5468.4
6102.1
6932.4
7768.3
9079.4
10756.5
13040.0
14826.3
16055.5
16104.7
16208.5
15951.7
14957.5
12116.7
7697.2
3643.8
1573.3
573.6
338.7
191.2
92.9
0.0

OF REPORT)