

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: P574936

Luminaire Tested: **EPH-VN-04-740-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574936
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

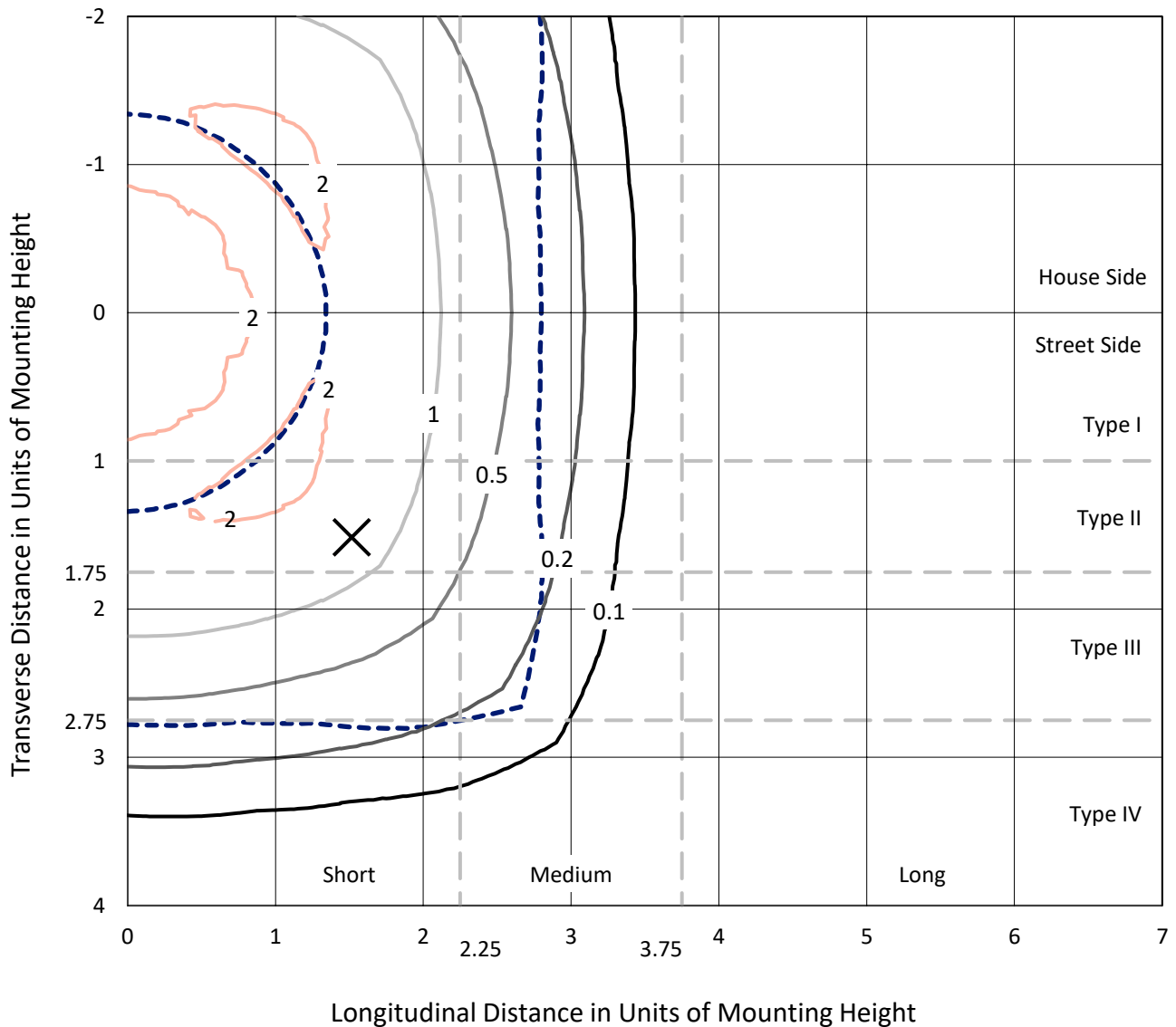
Lumens per Lamp: N/A
Luminaire Lumens: 35890.7 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 303.8
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

REPORT NUMBER: P574936
 CATALOG NUMBER: EPH-VN-04-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

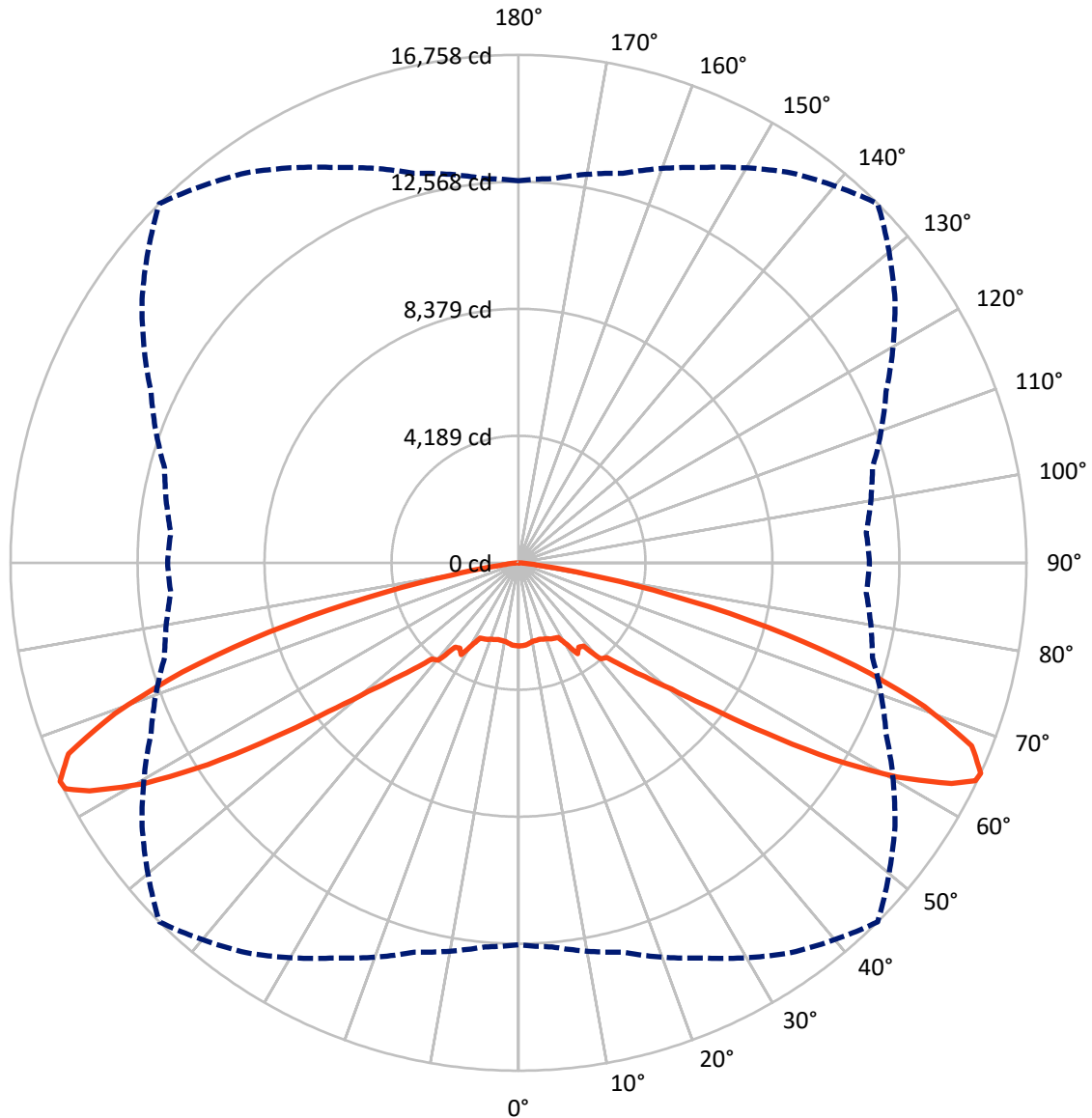
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

REPORT NUMBER: P574936
CATALOG NUMBER: EPH-VN-04-740-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P574936

CATALOG NUMBER: EPH-VN-04-740-U-5WQ

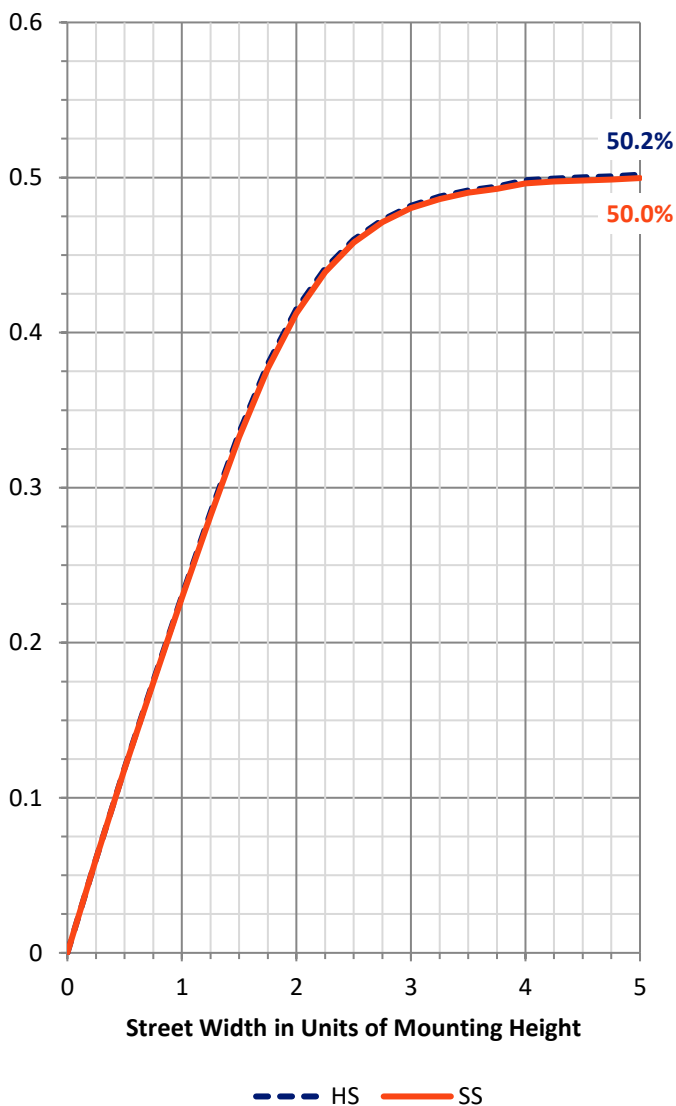
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17945.3	0.0	17945.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17945.3	0.0	17945.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	35890.7	0.0	35890.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	0.7
10°-20°	756.4	2.1
20°-30°	1309.3	3.6
30°-40°	2177.2	6.1
40°-50°	3927.9	10.9
50°-60°	8750.1	24.4
60°-70°	13040.5	36.3
70°-80°	5404.1	15.1
80°-90°	267.7	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°	35890.7	100.0
0°-180°	35890.7	100.0

Coefficient of Utilization



REPORT NUMBER: P574936

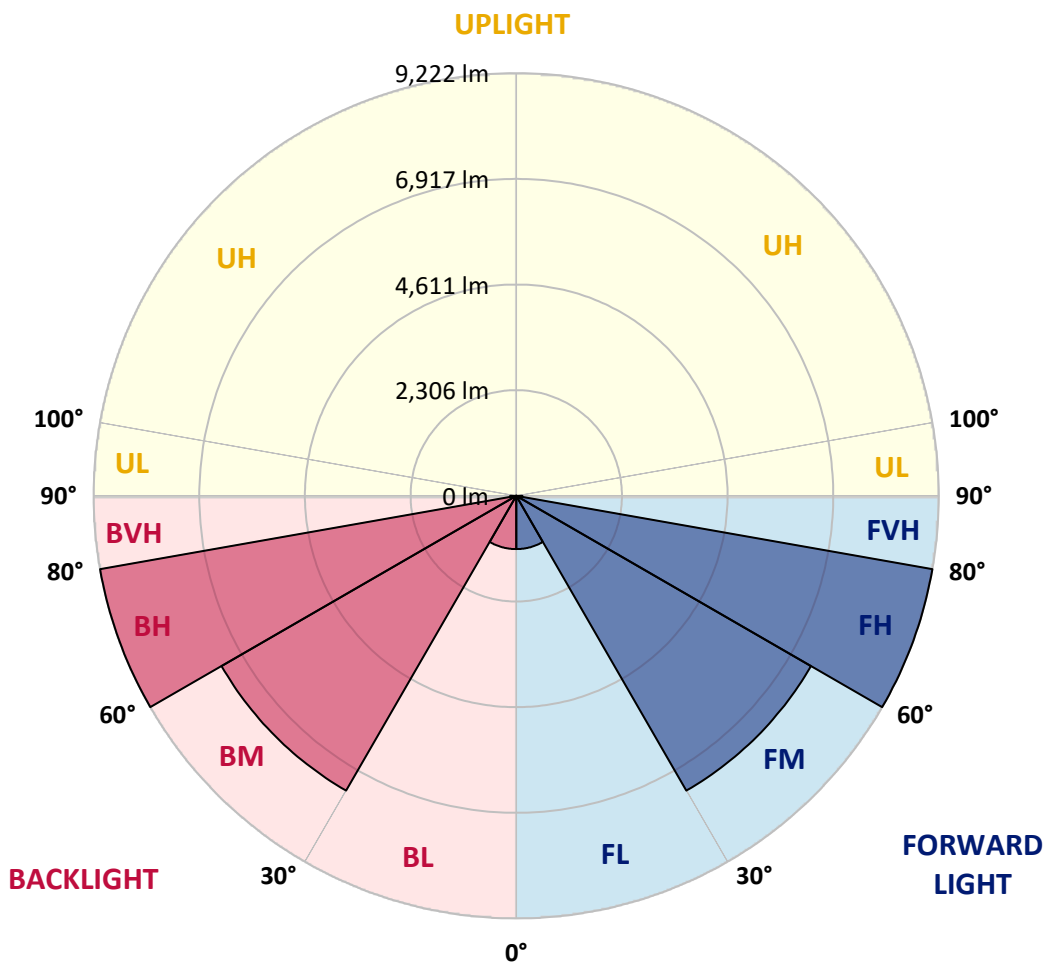
CATALOG NUMBER: EPH-VN-04-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.6	3.2			
FM (30°-60°)	7427.6	20.7			
FH (60°-80°)	9222.3	25.7			G4/12000
FVH (80°-90°)	133.8	0.4			G2/225
BL (0°-30°)	1161.6	3.2	B3/2500		
BM (30°-60°)	7427.6	20.7	B4/8500		
BH (60°-80°)	9222.3	25.7	B5		G4/12000
BVH (80°-90°)	133.8	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-G4

Type V Short





REPORT NUMBER: P574936
 CATALOG NUMBER: EPH-VN-04-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1
2.5°	2712.3	2720.3	2716.3	2716.3	2728.2	2736.1	2740.1	2779.8	2763.9	2775.8
5°	2720.3	2720.3	2728.2	2720.3	2728.2	2720.3	2728.2	2716.3	2728.2	2736.1
7.5°	2704.4	2696.5	2684.6	2684.6	2680.6	2672.7	2660.8	2692.5	2676.7	2688.5
10°	2708.4	2696.5	2656.8	2664.8	2629.1	2629.1	2637.0	2637.0	2672.7	2712.3
12.5°	2708.4	2684.6	2672.7	2621.1	2621.1	2625.1	2644.9	2652.9	2676.7	2692.5
15°	2708.4	2696.5	2676.7	2609.2	2625.1	2617.2	2637.0	2637.0	2688.5	2716.3
17.5°	2724.2	2732.2	2696.5	2633.0	2637.0	2652.9	2641.0	2652.9	2716.3	2736.1
20°	2728.2	2696.5	2684.6	2644.9	2680.6	2672.7	2668.7	2692.5	2712.3	2748.0
22.5°	2720.3	2732.2	2684.6	2680.6	2712.3	2728.2	2736.1	2708.4	2732.2	2756.0
25°	2787.7	2744.1	2732.2	2724.2	2740.1	2756.0	2748.0	2771.8	2771.8	2799.6
27.5°	2970.1	2974.1	2950.3	2855.1	2823.4	2787.7	2803.5	2867.0	2942.3	3001.8
30°	3053.4	3069.2	3132.7	3116.8	3104.9	3116.8	3112.8	3128.7	3136.6	3140.6
32.5°	3128.7	3120.8	3093.0	3164.4	3398.4	3576.8	3406.3	3172.3	3120.8	3104.9
35°	3402.3	3402.3	3342.8	3251.6	3374.6	3418.2	3338.9	3227.8	3291.3	3422.1
37.5°	3755.2	3703.7	3727.5	3715.6	3580.8	3485.6	3624.4	3695.8	3707.7	3703.7
40°	3965.4	3929.7	3894.0	3957.5	4080.4	4167.6	4044.7	3874.2	3917.8	4005.1
42.5°	4445.2	4354.0	4361.9	4298.5	4294.5	4266.8	4239.0	4250.9	4314.4	4413.5
45°	4936.9	4980.6	4952.8	4833.8	4889.3	4889.3	4810.0	4869.5	4901.2	5016.2
47.5°	5706.2	5686.4	5698.3	5591.2	5587.3	5615.0	5587.3	5591.2	5690.4	5682.4
50°	6606.4	6661.9	6677.7	6626.2	6562.8	6550.9	6507.2	6562.8	6622.2	6626.2
52.5°	7851.5	7911.0	7911.0	7926.9	8006.2	7966.5	7958.6	7962.5	7847.5	7768.2
55°	9421.8	9441.6	9509.0	9647.8	9889.7	9921.5	9770.8	9703.4	9493.2	9366.3
57.5°	10972.3	11051.6	11238.0	11598.8	11896.2	12221.4	11785.2	11341.1	10928.7	10726.4
60°	12261.0	12376.0	12732.9	13236.5	14061.3	14358.7	13621.2	12859.8	12023.1	11404.5
62.5°	12867.8	13046.2	13347.6	14366.7	15603.9	16032.1	14949.6	13565.7	12296.7	11701.9
64°	12871.7	12899.5	13502.2	14600.6	15873.5	16702.3	15270.8	13565.7	12364.1	11630.5
65°	12606.0	12721.0	13303.9	14386.5	15703.0	16757.8	15159.8	13379.3	12086.6	11515.5
67.5°	11400.5	11396.6	11935.9	13010.5	14838.6	16127.3	14216.0	12336.4	11400.5	10781.9
70°	8648.6	8787.3	9302.8	10623.3	12840.0	14220.0	12431.6	10484.5	9318.7	8823.0
72.5°	5174.9	5357.3	6015.5	7625.5	9973.0	11650.4	9865.9	7756.3	6352.6	5567.4
75°	2359.4	2494.2	2946.3	4258.8	6646.0	8517.7	6685.7	4484.9	3215.9	2716.3
77.5°	662.2	745.5	995.3	1954.9	3648.2	5107.4	3751.3	2161.1	1403.8	1165.8
80°	297.4	313.3	352.9	475.8	1157.9	2252.4	1550.5	793.1	527.4	436.2
82.5°	162.6	174.5	230.0	245.9	329.1	598.8	511.5	372.7	317.2	253.8
85°	91.2	95.2	130.9	130.9	158.6	174.5	186.4	198.3	194.3	142.8
87.5°	27.8	31.7	39.7	39.7	39.7	39.7	63.4	87.2	95.2	67.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
2744.1
2763.9
2748.0
2708.4
2724.2
2732.2
2736.1
2763.9
2779.8
2783.7
2835.3
3013.7
3128.7
3120.8
3430.1
3743.3
3969.4
4429.4
5032.1
5638.8
6590.5
7807.9
9465.4
10762.1
11654.3
11690.0
11765.4
11579.0
10857.3
8795.3
5587.3
2644.9
1142.0
416.4
245.9
138.8
67.4
0.0

OF REPORT)