

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: McGRAW-EDISON

Report Number: P529578

Luminaire Tested: **GALN-SA4D-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23644 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

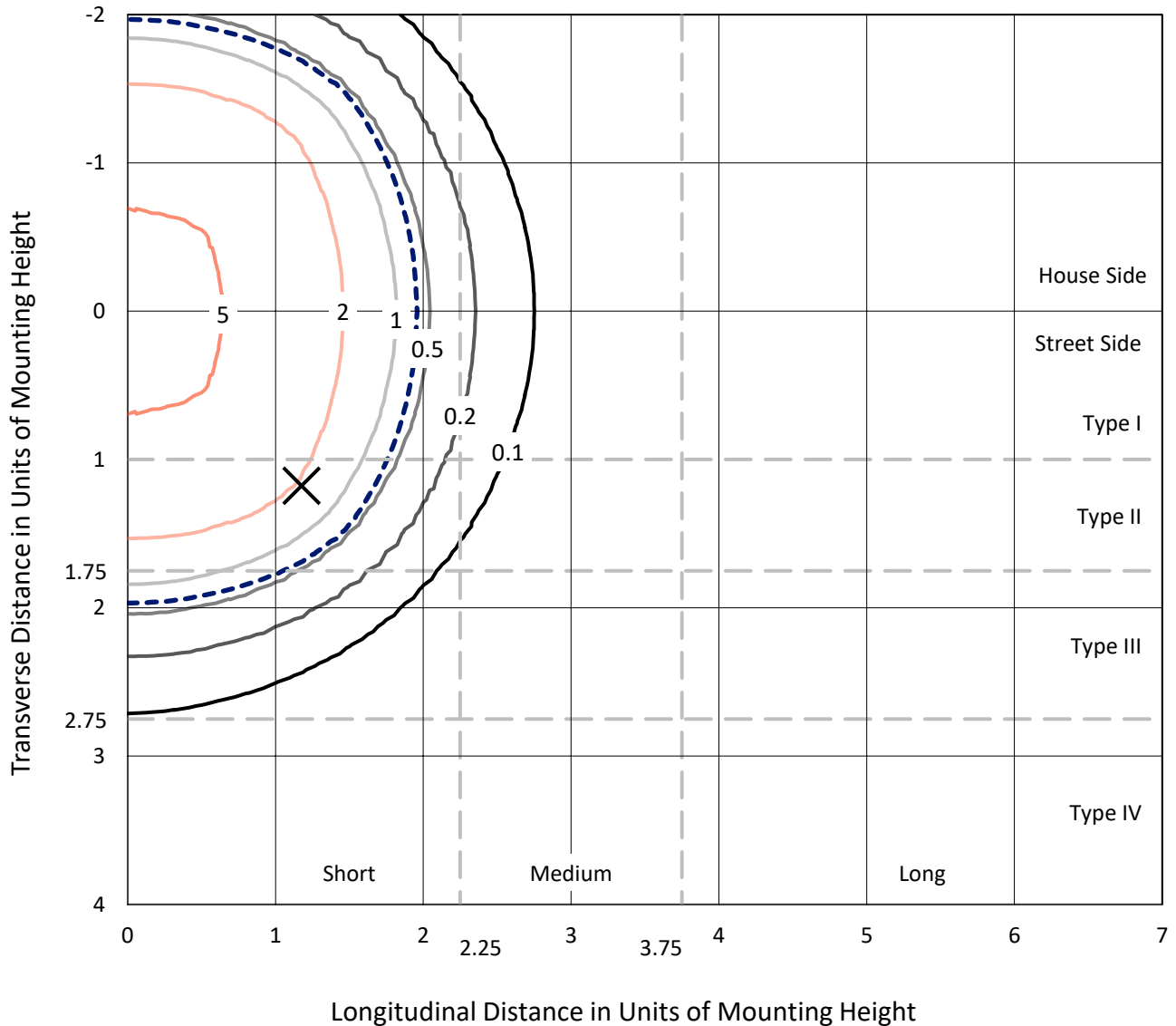
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

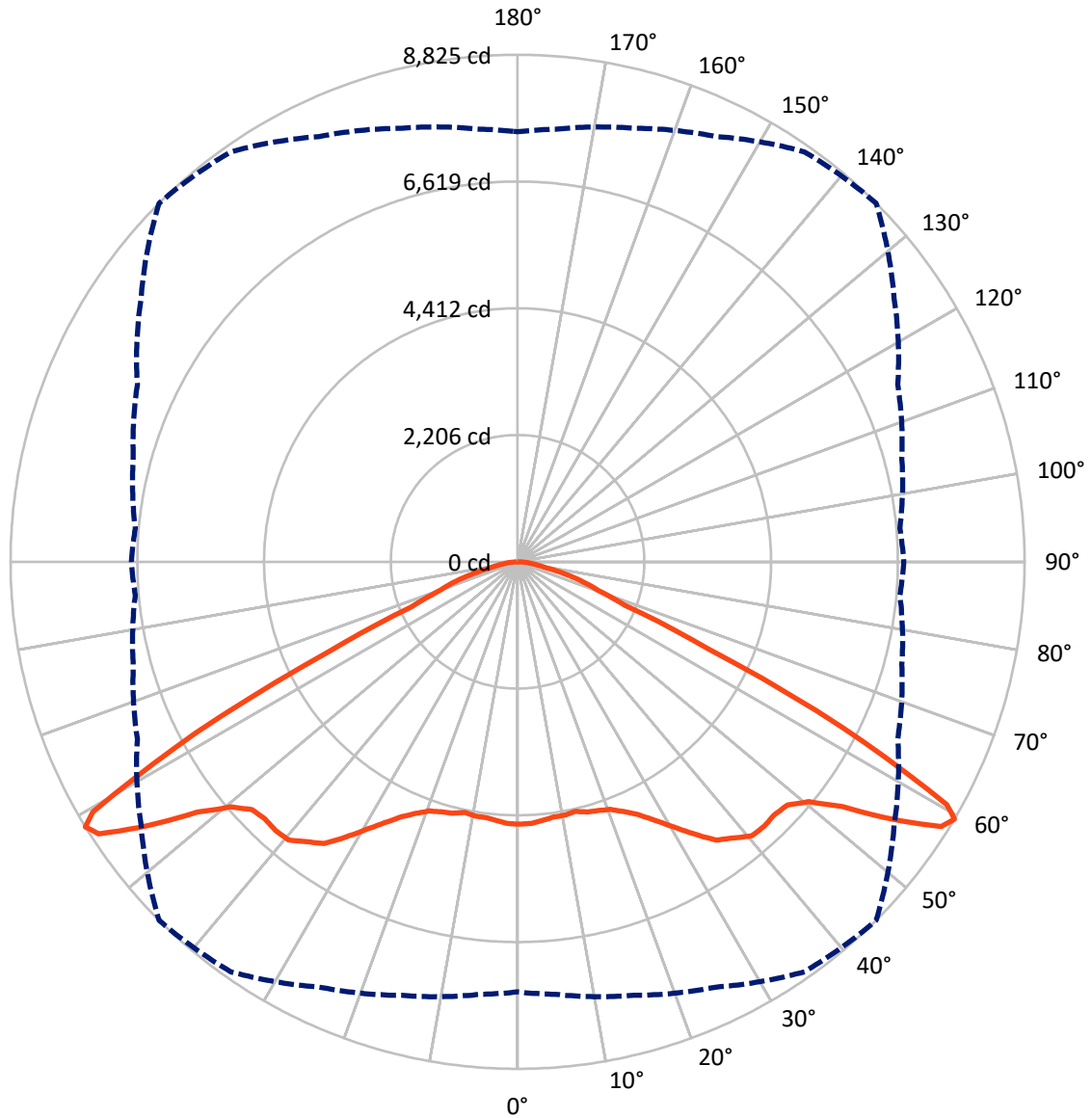
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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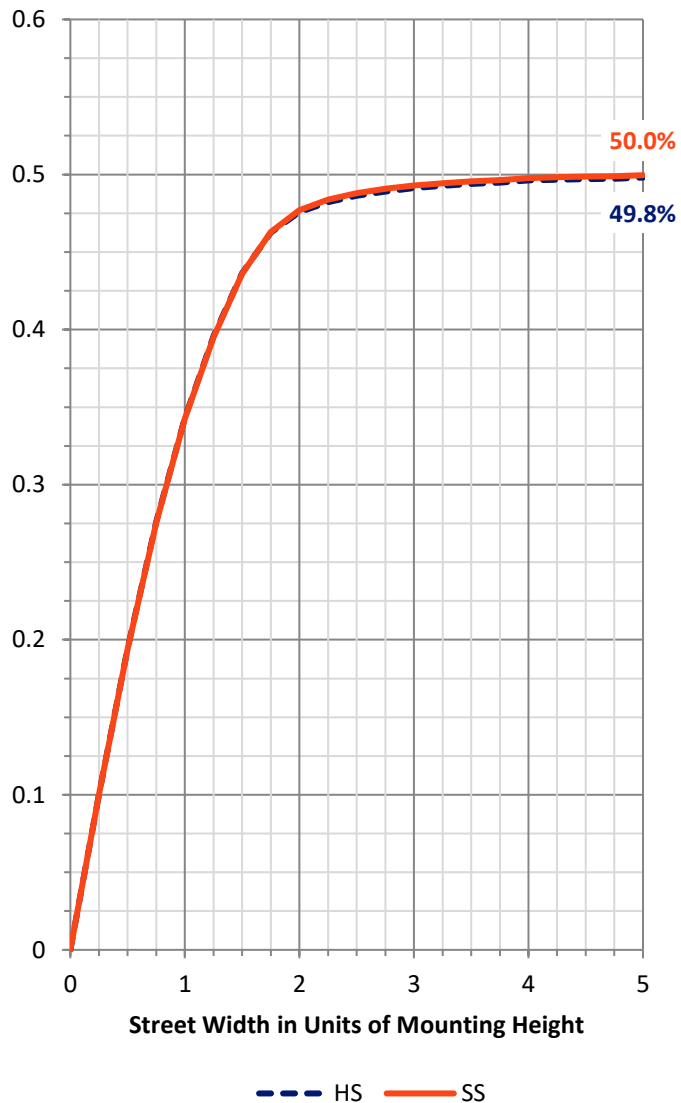
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11822.0	0.0	11822.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11822.0	0.0	11822.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23644.0	0.0	23644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.5	1.8
10°-20°	1280.3	5.4
20°-30°	2235.5	9.5
30°-40°	3570.4	15.1
40°-50°	4863.6	20.6
50°-60°	6576.9	27.8
60°-70°	3606.8	15.3
70°-80°	922.7	3.9
80°-90°	157.4	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°	23644.0	100.0
0°-180°	23644.0	100.0

Coefficient of Utilization



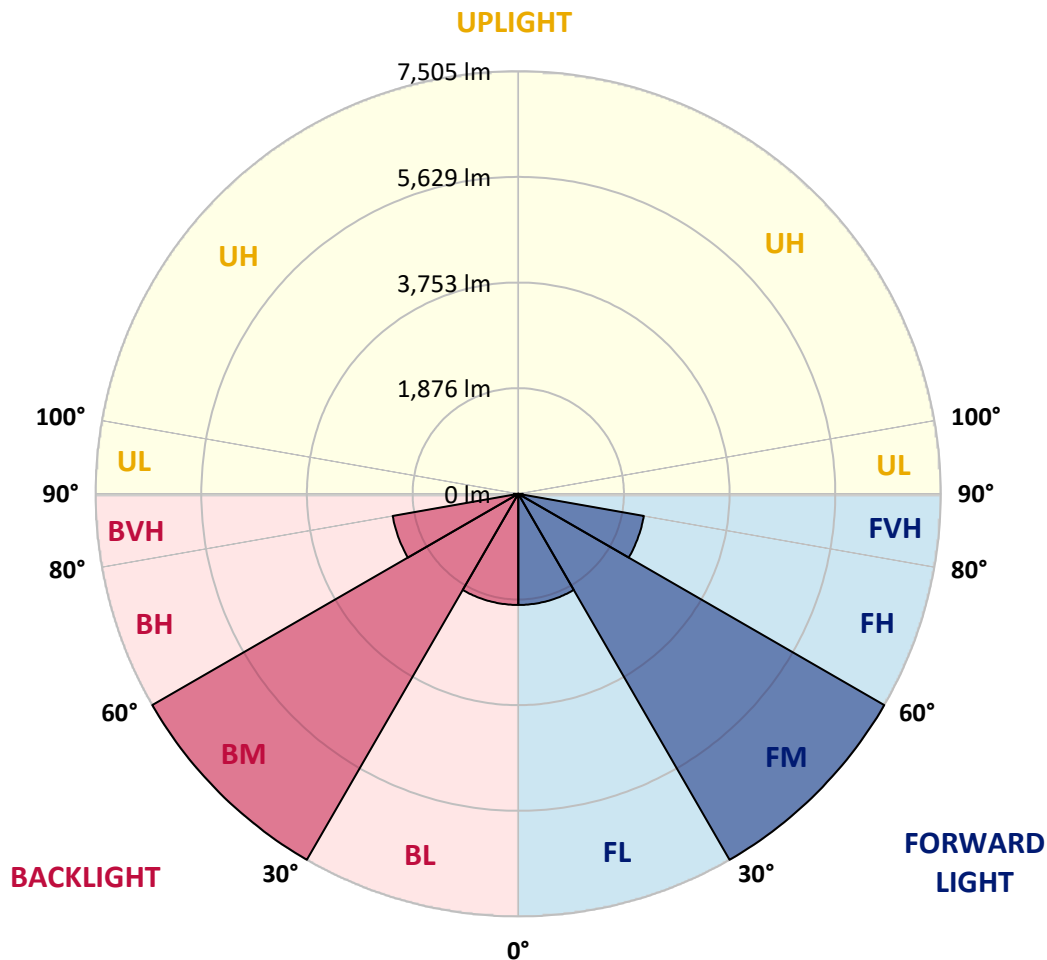
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.1	8.3			
FM (30°-60°)	7505.4	31.7			
FH (60°-80°)	2264.7	9.6			G2/5000
FVH (80°-90°)	78.7	0.3			G1/100
BL (0°-30°)	1973.1	8.3	B3/2500		
BM (30°-60°)	7505.4	31.7	B4/8500		
BH (60°-80°)	2264.7	9.6	B3/2500		G2/5000
BVH (80°-90°)	78.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9
2.5°	4539.6	4573.0	4548.7	4569.9	4566.9	4557.8	4542.6	4533.6	4521.4	4539.6	4509.3
5°	4521.4	4548.7	4576.0	4539.6	4539.6	4521.4	4512.3	4494.2	4494.2	4491.1	4488.1
7.5°	4551.7	4524.5	4512.3	4518.4	4524.5	4485.1	4512.3	4476.0	4445.7	4466.9	4491.1
10°	4524.5	4536.6	4491.1	4512.3	4479.0	4485.1	4466.9	4491.1	4457.8	4457.8	4457.8
12.5°	4551.7	4518.4	4533.6	4518.4	4509.3	4457.8	4482.0	4454.8	4451.7	4482.0	4454.8
15°	4606.3	4551.7	4539.6	4509.3	4518.4	4518.4	4494.2	4497.2	4463.9	4482.0	4488.1
17.5°	4588.1	4557.8	4548.7	4512.3	4542.6	4551.7	4506.3	4476.0	4497.2	4494.2	4491.1
20°	4603.3	4615.4	4606.3	4612.3	4624.5	4600.2	4557.8	4515.4	4488.1	4527.5	4524.5
22.5°	4700.2	4688.1	4682.0	4676.0	4697.2	4721.4	4663.9	4597.2	4597.2	4624.5	4636.6
25°	4779.0	4776.0	4773.0	4800.2	4873.0	4873.0	4800.2	4715.4	4694.2	4712.4	4697.2
27.5°	4894.2	4927.5	4915.4	4963.9	5069.9	5094.2	4997.2	4897.2	4839.6	4818.4	4845.7
30°	5157.8	5118.4	5127.5	5179.0	5273.0	5351.8	5203.3	5097.2	5018.4	5015.4	5027.5
32.5°	5333.6	5363.9	5391.2	5439.7	5588.2	5648.8	5470.0	5297.2	5248.7	5221.5	5230.6
35°	5685.1	5657.9	5651.8	5700.3	5848.8	5948.8	5724.5	5573.0	5509.4	5570.0	5570.0
37.5°	6018.5	5942.7	5885.1	5948.8	6085.1	6097.3	5906.3	5824.5	5791.2	5860.9	5857.9
40°	6176.1	6170.0	6036.7	6073.0	6254.9	6273.0	6094.2	5997.3	5991.2	6082.1	6173.0
42.5°	6339.7	6282.1	6148.8	6173.0	6285.2	6291.2	6121.5	6094.2	6160.9	6248.8	6254.9
45°	6367.0	6318.5	6233.6	6173.0	6254.9	6273.0	6173.0	6191.2	6197.3	6303.3	6303.3
47.5°	6421.5	6415.5	6367.0	6321.5	6336.7	6321.5	6257.9	6285.2	6376.1	6427.6	6403.3
50°	6573.0	6509.4	6557.9	6518.5	6521.5	6564.0	6506.4	6533.7	6515.5	6470.0	6439.7
52.5°	6906.4	6876.1	6918.5	6945.8	6976.1	7073.1	7006.4	6860.9	6724.6	6603.4	6600.3
55°	7394.3	7415.5	7497.3	7636.7	7754.9	7909.5	7588.3	7239.7	7021.6	6830.6	6842.8
57.5°	7854.9	7839.8	7951.9	8270.1	8615.6	8694.4	8064.0	7567.0	7212.5	7091.3	7039.7
59°	7485.2	7557.9	7812.5	8167.1	8709.5	8824.7	8000.4	7300.4	6924.6	6679.1	6721.5
60°	6903.4	6930.6	7157.9	7651.9	8385.3	8582.2	7573.1	6888.2	6388.2	6245.8	6309.4
62.5°	4879.0	4857.8	5021.5	5424.5	6082.1	6348.8	5630.6	5148.7	4833.6	4676.0	4712.4
65°	2594.1	2691.0	2757.7	3009.2	3357.7	3639.6	3342.6	3133.5	2957.7	2827.4	2824.4
67.5°	1751.6	1739.5	1754.6	1812.2	1930.4	2009.2	2003.1	1897.1	1881.9	1857.7	1884.9
70°	1475.8	1469.8	1442.5	1442.5	1466.7	1484.9	1506.1	1518.3	1542.5	1572.8	1569.8
72.5°	1197.0	1181.9	1163.7	1154.6	1184.9	1194.0	1221.3	1233.4	1254.6	1251.6	1278.9
75°	790.9	790.9	812.2	836.4	845.5	863.7	866.7	903.1	903.1	909.1	884.9
77.5°	442.4	430.3	445.5	469.7	490.9	524.3	557.6	584.9	600.0	594.0	594.0
80°	257.6	257.6	272.7	300.0	327.3	357.6	381.8	403.1	418.2	412.1	400.0
82.5°	160.6	160.6	175.8	203.0	224.3	242.4	275.8	303.0	321.2	315.2	300.0
85°	81.8	81.8	100.0	118.2	145.5	157.6	154.6	142.4	139.4	124.2	124.2
87.5°	21.2	21.2	30.3	33.3	27.3	30.3	30.3	30.3	30.3	30.3	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)