

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: P529582

Luminaire Tested: **GALN-SA4D-730-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
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-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24421 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

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

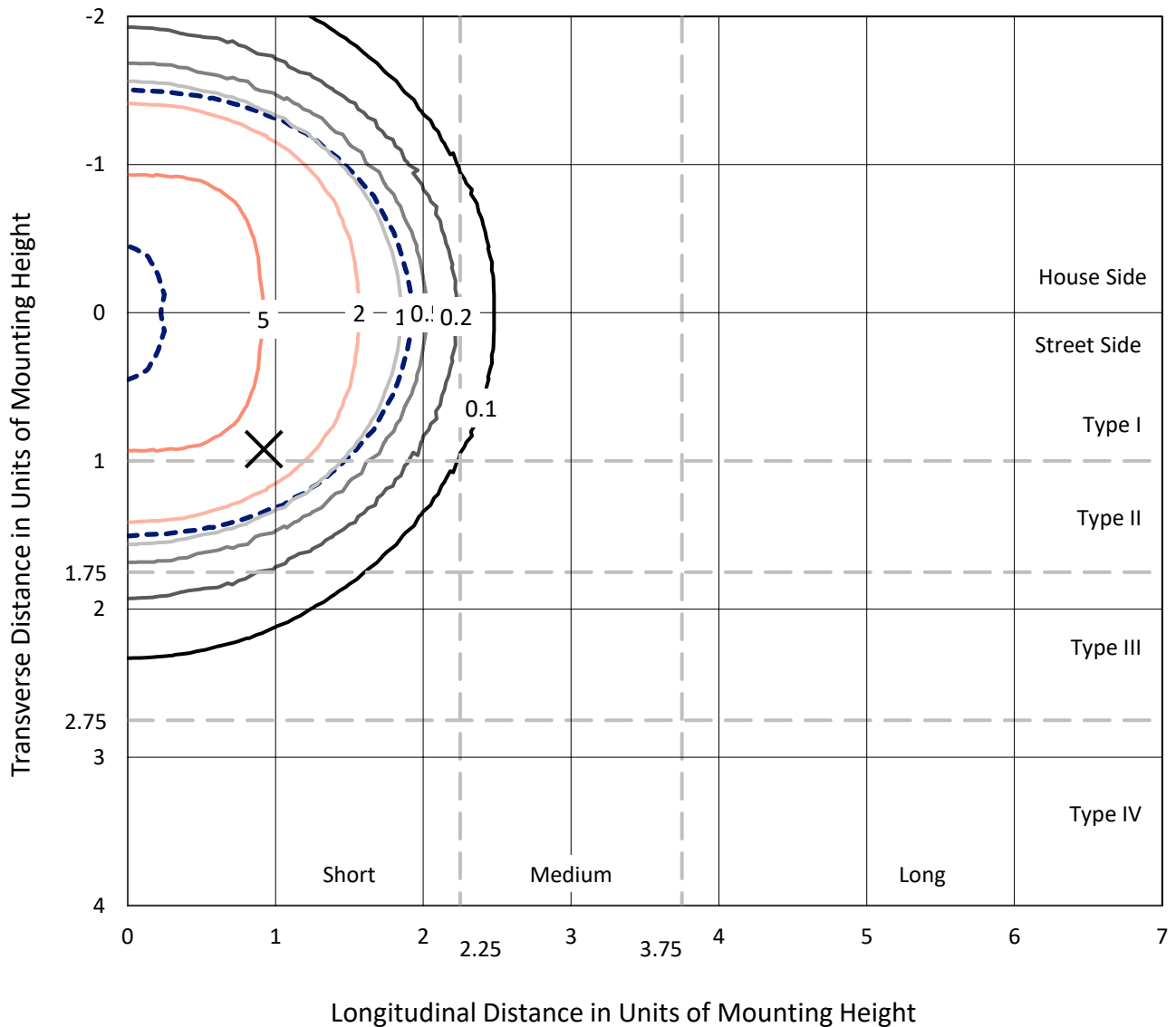




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Iso-Footcandle Lines of Horizontal Illumination

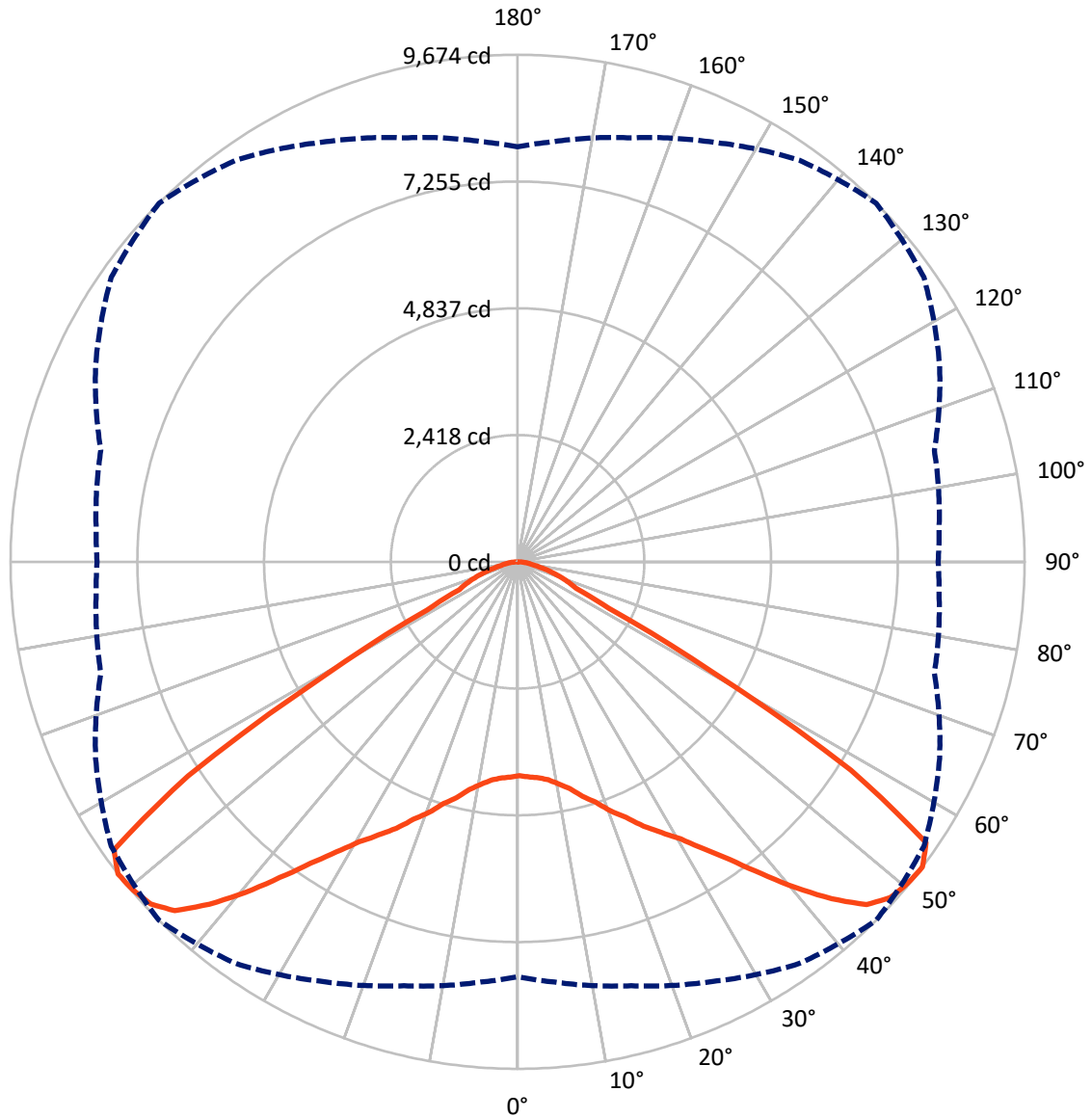
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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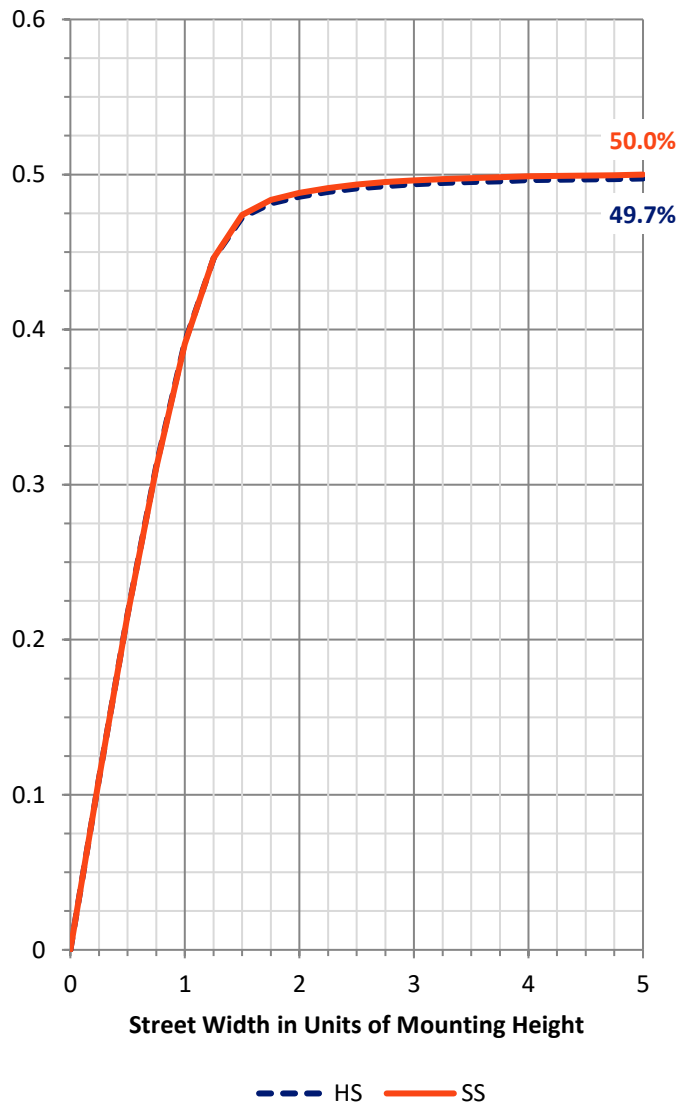
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12210.5	0.0	12210.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12210.5	0.0	12210.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24421.0	0.0	24421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.1	1.6
10°-20°	1317.9	5.4
20°-30°	2509.1	10.3
30°-40°	4308.3	17.6
40°-50°	6622.0	27.1
50°-60°	6724.5	27.5
60°-70°	1874.0	7.7
70°-80°	552.8	2.3
80°-90°	111.4	0.5
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°	24421.0	100.0
0°-180°	24421.0	100.0

Coefficient of Utilization

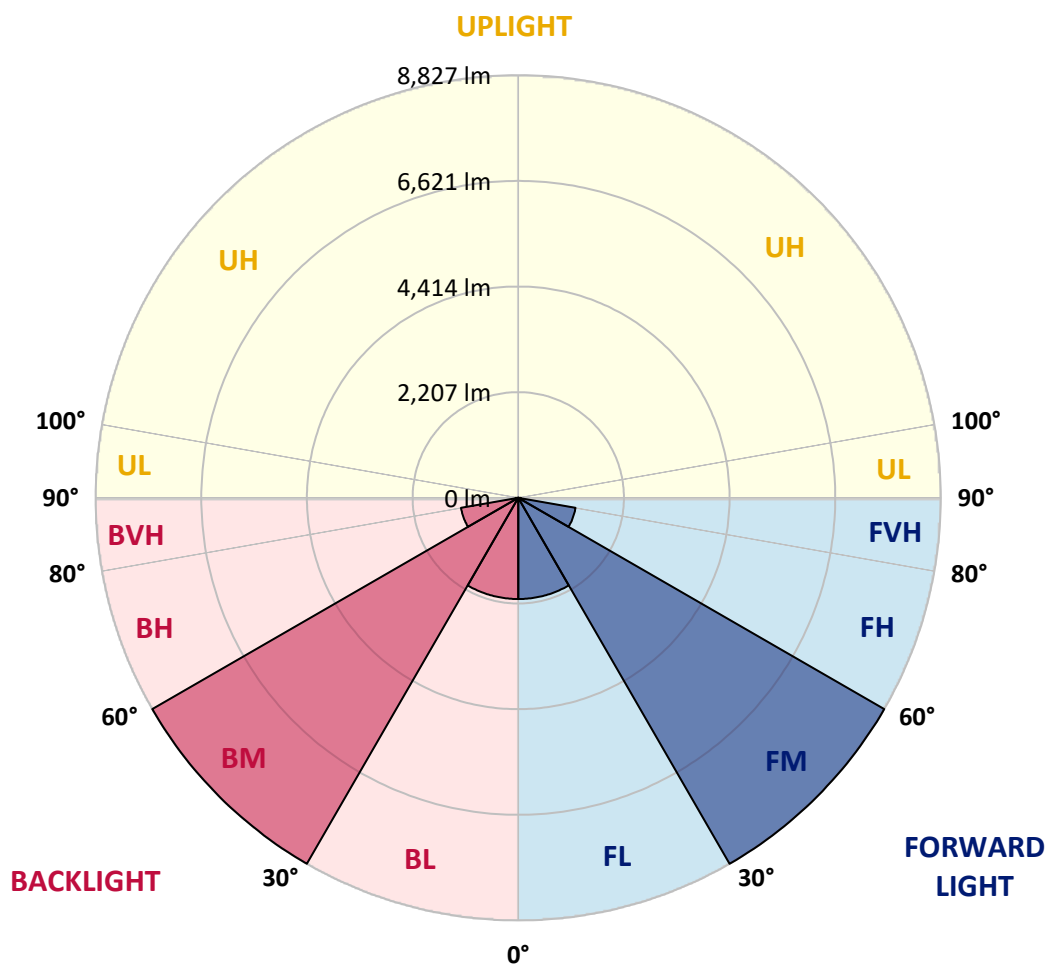


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.0	8.7			
FM (30°-60°)	8827.4	36.1			
FH (60°-80°)	1213.4	5.0			G1/1800
FVH (80°-90°)	55.7	0.2			G1/100
BL (0°-30°)	2114.0	8.7	B3/2500		
BM (30°-60°)	8827.4	36.1	B5		
BH (60°-80°)	1213.4	5.0	B3/2500		G1/1800
BVH (80°-90°)	55.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4082.3	4082.3	4082.3	4082.3	4082.3	4082.3	4082.3	4082.3	4082.3	4082.3	4082.3
2.5°	4091.4	4049.0	4064.1	4073.2	4112.6	4109.6	4100.5	4112.6	4124.7	4127.8	4121.7
5°	4088.4	4058.0	4070.2	4079.3	4118.7	4139.9	4133.8	4185.3	4221.7	4212.6	4258.1
7.5°	4064.1	4082.3	4067.1	4112.6	4145.9	4197.5	4252.0	4300.5	4346.0	4397.5	4406.6
10°	4118.7	4118.7	4145.9	4182.3	4270.2	4309.6	4388.4	4458.1	4546.0	4606.6	4582.4
12.5°	4176.2	4185.3	4185.3	4279.3	4352.0	4439.9	4512.6	4606.6	4730.9	4803.6	4840.0
15°	4233.8	4239.9	4270.2	4397.5	4506.6	4646.0	4712.7	4797.5	4867.2	5003.6	5006.6
17.5°	4285.3	4318.7	4409.6	4552.0	4688.4	4821.8	4927.8	5015.7	5076.3	5130.9	5118.8
20°	4479.3	4503.6	4597.5	4739.9	4943.0	5073.3	5109.7	5124.8	5164.2	5273.3	5240.0
22.5°	4667.2	4676.3	4764.2	4982.4	5124.8	5297.6	5337.0	5327.9	5343.0	5370.3	5418.8
25°	4861.2	4876.3	4997.5	5182.4	5382.4	5588.5	5621.9	5552.2	5530.9	5561.3	5564.3
27.5°	5109.7	5112.7	5267.3	5427.9	5655.2	5849.2	5900.7	5846.1	5746.1	5770.4	5809.8
30°	5424.9	5403.7	5558.2	5788.6	6028.0	6137.1	6225.0	6197.7	6088.6	6067.4	6034.0
32.5°	5788.6	5794.6	5934.0	6185.6	6343.2	6525.0	6619.0	6573.5	6503.8	6467.4	6488.6
35°	6300.7	6328.0	6422.0	6631.1	6885.6	6976.6	7125.1	7028.1	6846.2	6891.7	6931.1
37.5°	6722.0	6800.8	6976.6	7225.1	7376.6	7543.3	7597.9	7467.5	7334.2	7279.6	7410.0
40°	7367.5	7343.3	7537.2	7785.8	8010.0	8176.7	8107.0	7976.7	7646.3	7649.4	7685.7
42.5°	7922.1	7934.3	8082.8	8379.8	8685.9	8788.9	8567.7	8249.4	7882.7	7843.3	7922.1
45°	8388.9	8437.3	8522.2	8919.2	9219.3	9331.4	8922.2	8546.4	8055.5	7891.8	8022.1
47.5°	8555.5	8634.3	8819.2	9182.9	9479.9	9570.8	9243.5	8704.0	8216.1	7949.4	8019.1
50°	8579.8	8552.5	8855.6	9188.9	9449.6	9646.6	9358.7	8819.2	8176.7	8037.3	8016.1
52.5°	7916.1	8049.4	8373.7	8831.3	9358.7	9673.9	9461.7	8882.8	8231.3	8073.7	8022.1
55°	6406.8	6249.2	6840.2	7610.0	8579.8	9455.6	9425.3	8916.2	8264.6	8134.3	8064.6
57.5°	3576.2	3621.6	3955.0	4791.5	6043.1	7497.8	8379.8	8564.6	8249.4	8173.7	8210.0
60°	1654.7	1669.9	1812.3	2203.3	2979.1	4252.0	5412.7	6591.7	7134.2	7243.3	7243.3
62.5°	1233.5	1227.4	1263.8	1333.5	1497.1	1954.8	2609.4	3545.9	4291.4	4812.7	4949.1
65°	1115.3	1112.3	1130.4	1154.7	1166.8	1230.4	1375.9	1663.8	1906.3	2045.7	2021.4
67.5°	975.9	972.8	978.9	994.1	1015.3	1048.6	1085.0	1145.6	1230.4	1224.4	1209.2
70°	788.0	788.0	797.1	809.2	833.4	872.8	915.3	957.7	1030.4	1045.6	1042.5
72.5°	581.9	572.8	591.0	615.2	639.5	688.0	733.4	772.8	824.3	839.5	833.4
75°	369.7	375.8	387.9	415.2	457.6	491.0	539.5	572.8	606.1	618.3	621.3
77.5°	206.1	212.1	233.4	266.7	309.1	345.5	387.9	415.2	436.4	439.4	442.5
80°	124.3	127.3	148.5	178.8	215.2	254.6	287.9	315.2	333.4	324.3	321.2
82.5°	75.8	78.8	97.0	124.3	154.6	184.9	221.2	245.5	263.7	251.5	239.4
85°	39.4	42.4	57.6	75.8	100.0	115.2	115.2	103.0	100.0	94.0	90.9
87.5°	12.1	12.1	15.2	18.2	15.2	18.2	21.2	24.2	24.2	27.3	24.2
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)