

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: P532204

Luminaire Tested: **GALN-SA7C-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532204
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-SA7C-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 41543 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

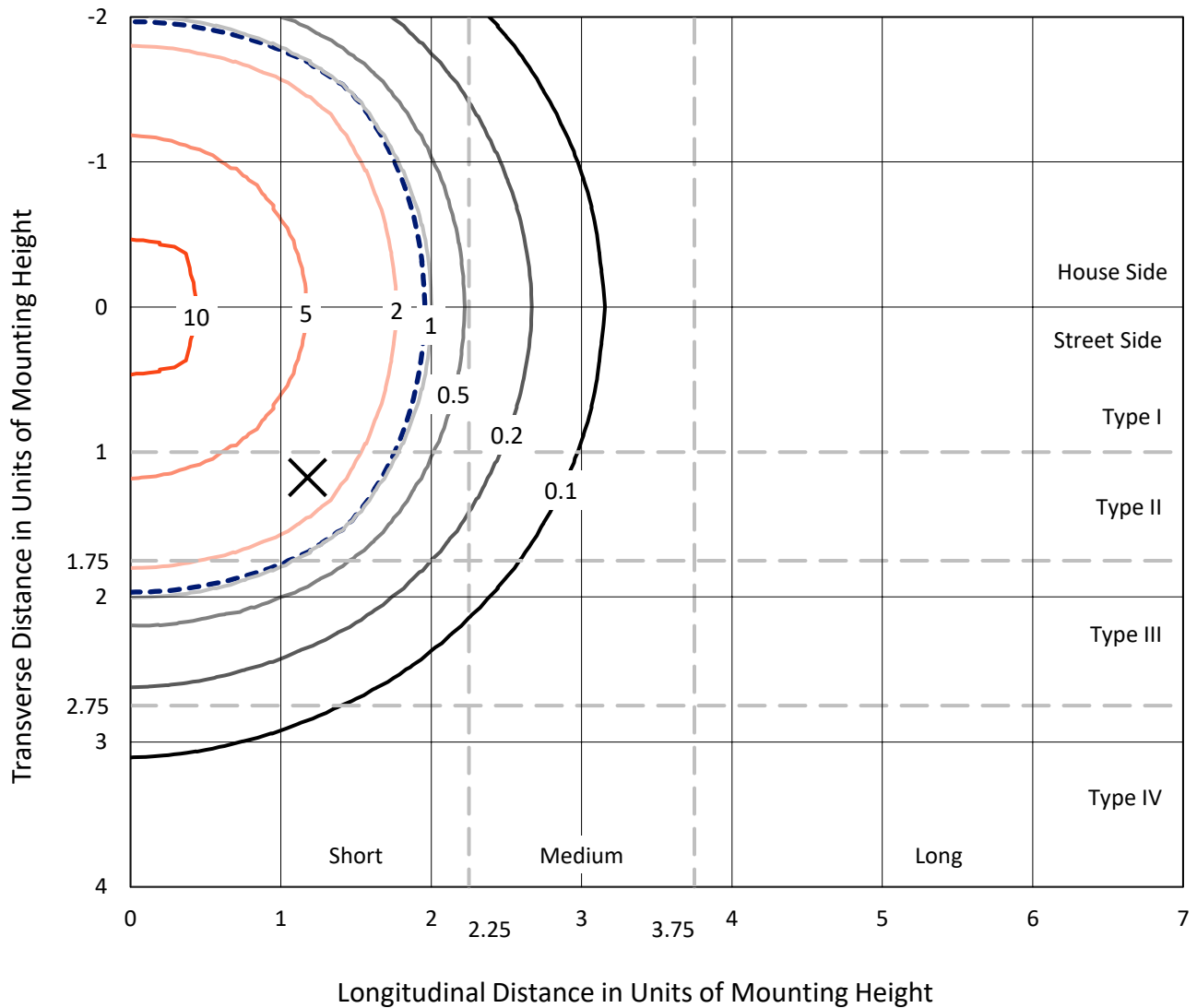
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

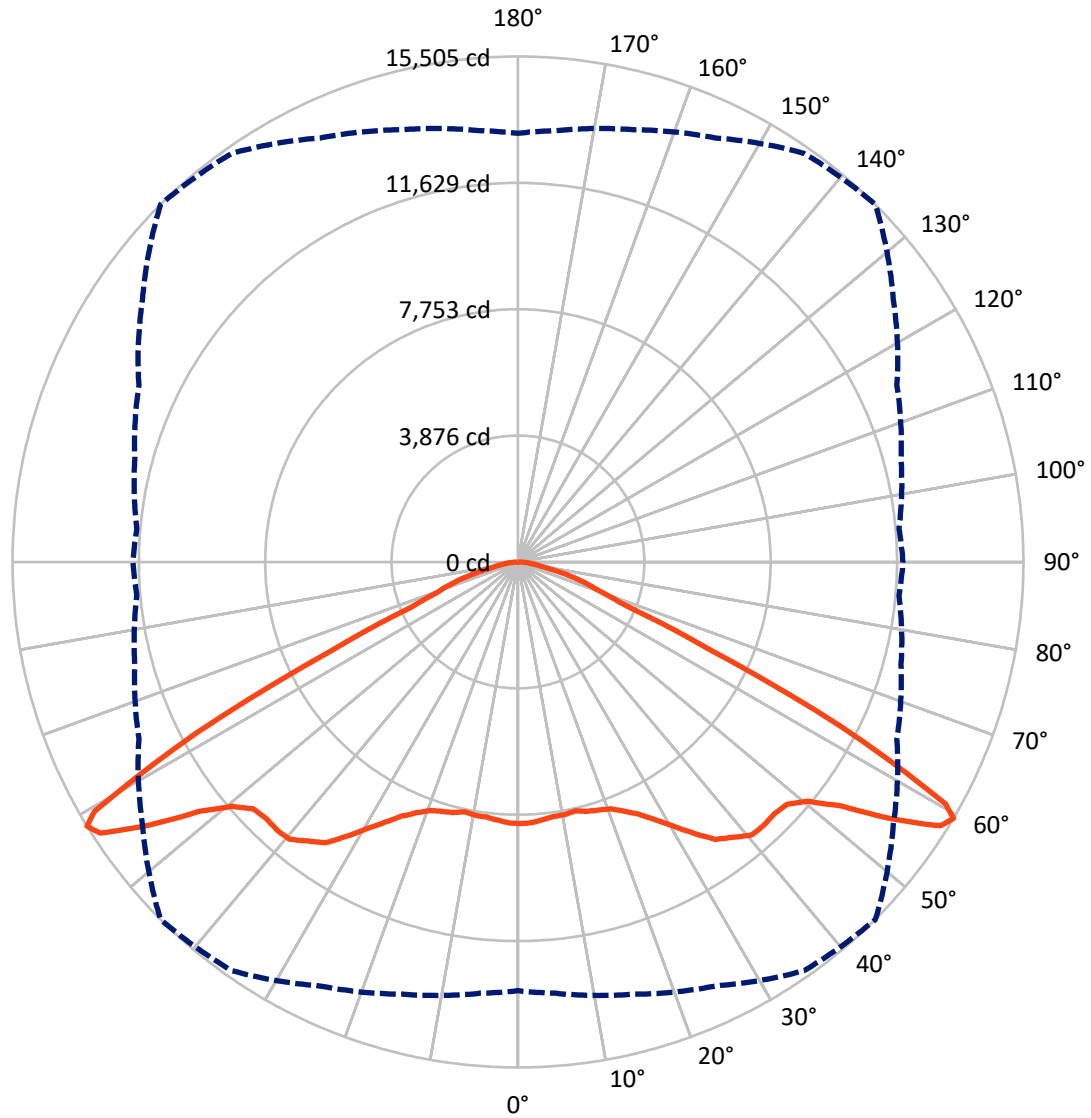
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	20771.5	0.0	20771.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20771.5	0.0	20771.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41543.0	0.0	41543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.4	1.8
10°-20°	2249.5	5.4
20°-30°	3927.8	9.5
30°-40°	6273.2	15.1
40°-50°	8545.4	20.6
50°-60°	11555.7	27.8
60°-70°	6337.2	15.3
70°-80°	1621.2	3.9
80°-90°	276.5	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°	41543.0	100.0
0°-180°	41543.0	100.0

Coefficient of Utilization



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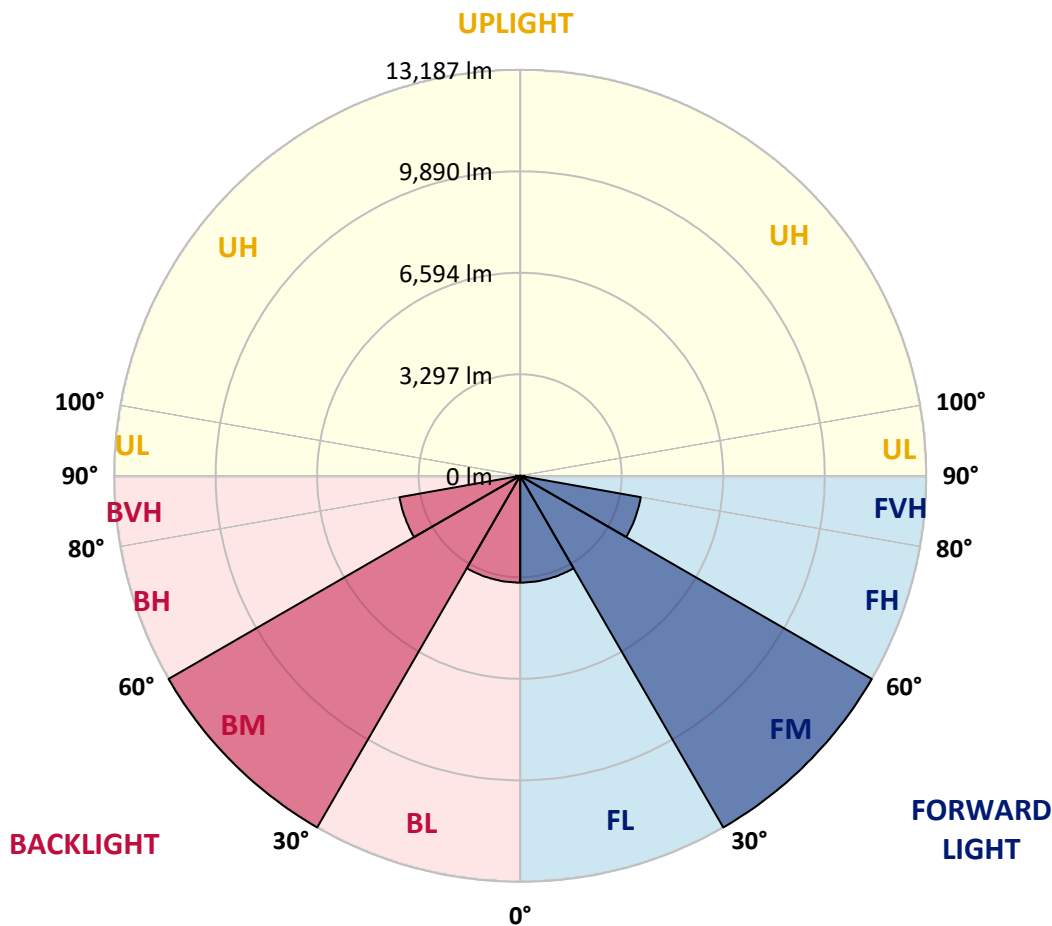
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3466.8	8.3			
FM (30°-60°)	13187.2	31.7			
FH (60°-80°)	3979.2	9.6			G2/5000
FVH (80°-90°)	138.3	0.3			G2/225
BL (0°-30°)	3466.8	8.3	B4/5000		
BM (30°-60°)	13187.2	31.7	B5		
BH (60°-80°)	3979.2	9.6	B4/5000		G2/5000
BVH (80°-90°)	138.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8024.1	8024.1	8024.1	8024.1	8024.1	8024.1	8024.1	8024.1	8024.1	8024.1	8024.1
2.5°	7976.2	8034.8	7992.2	8029.4	8024.1	8008.1	7981.5	7965.6	7944.3	7976.2	7923.0
5°	7944.3	7992.2	8040.1	7976.2	7976.2	7944.3	7928.3	7896.3	7896.3	7891.0	7885.7
7.5°	7997.5	7949.6	7928.3	7938.9	7949.6	7880.4	7928.3	7864.4	7811.1	7848.4	7891.0
10°	7949.6	7970.9	7891.0	7928.3	7869.7	7880.4	7848.4	7891.0	7832.4	7832.4	7832.4
12.5°	7997.5	7938.9	7965.6	7938.9	7923.0	7832.4	7875.0	7827.1	7821.8	7875.0	7827.1
15°	8093.3	7997.5	7976.2	7923.0	7938.9	7938.9	7896.3	7901.7	7843.1	7875.0	7885.7
17.5°	8061.4	8008.1	7992.2	7928.3	7981.5	7997.5	7917.6	7864.4	7901.7	7896.3	7891.0
20°	8088.0	8109.3	8093.3	8104.0	8125.3	8082.7	8008.1	7933.6	7885.7	7954.9	7949.6
22.5°	8258.4	8237.1	8226.5	8215.8	8253.1	8295.7	8194.5	8077.4	8077.4	8125.3	8146.6
25°	8396.8	8391.5	8386.2	8434.1	8561.9	8561.9	8434.1	8285.0	8247.8	8279.7	8253.1
27.5°	8599.2	8657.7	8636.4	8721.6	8908.0	8950.6	8780.2	8604.5	8503.3	8466.1	8514.0
30°	9062.4	8993.2	9009.2	9099.7	9264.7	9403.2	9142.3	8955.9	8817.5	8812.2	8833.5
32.5°	9371.2	9424.5	9472.4	9557.6	9818.5	9925.0	9610.8	9307.3	9222.1	9174.2	9190.2
35°	9988.9	9941.0	9930.3	10015.5	10276.4	10452.1	10058.1	9791.9	9680.1	9786.6	9786.6
37.5°	10574.6	10441.5	10340.3	10452.1	10691.7	10713.0	10377.6	10233.8	10175.2	10297.7	10292.4
40°	10851.5	10840.8	10606.5	10670.4	10989.9	11021.9	10707.7	10537.3	10526.7	10686.4	10846.1
42.5°	11139.0	11037.8	10803.5	10846.1	11043.1	11053.8	10755.6	10707.7	10824.8	10979.3	10989.9
45°	11186.9	11101.7	10952.6	10846.1	10989.9	11021.9	10846.1	10878.1	10888.7	11075.1	11075.1
47.5°	11282.8	11272.1	11186.9	11107.0	11133.7	11107.0	10995.2	11043.1	11202.9	11293.4	11250.8
50°	11549.0	11437.2	11522.4	11453.1	11458.5	11533.0	11431.8	11479.8	11447.8	11367.9	11314.7
52.5°	12134.7	12081.4	12156.0	12203.9	12257.2	12427.5	12310.4	12054.8	11815.2	11602.2	11596.9
55°	12991.9	13029.2	13173.0	13417.9	13625.6	13897.1	13332.7	12720.4	12337.0	12001.6	12022.9
57.5°	13801.3	13774.7	13971.7	14530.7	15137.7	15276.2	14168.7	13295.4	12672.5	12459.5	12369.0
59°	13151.7	13279.5	13726.7	14349.7	15302.8	15505.1	14056.9	12826.9	12166.6	11735.3	11809.9
60°	12129.4	12177.3	12576.6	13444.5	14733.1	15079.2	13306.1	12102.7	11224.2	10973.9	11085.7
62.5°	8572.6	8535.3	8822.8	9531.0	10686.4	11155.0	9893.0	9046.4	8492.7	8215.8	8279.7
65°	4557.8	4728.2	4845.4	5287.3	5899.6	6394.8	5873.0	5505.6	5196.8	4967.8	4962.5
67.5°	3077.6	3056.3	3082.9	3184.1	3391.7	3530.2	3519.5	3333.2	3306.6	3264.0	3311.9
70°	2593.1	2582.4	2534.5	2534.5	2577.1	2609.0	2646.3	2667.6	2710.2	2763.4	2758.1
72.5°	2103.2	2076.6	2044.6	2028.7	2081.9	2097.9	2145.8	2167.1	2204.4	2199.0	2247.0
75°	1389.7	1389.7	1427.0	1469.6	1485.6	1517.5	1522.8	1586.7	1586.7	1597.4	1554.8
77.5°	777.4	756.1	782.7	825.3	862.6	921.1	979.7	1027.6	1054.3	1043.6	1043.6
80°	452.6	452.6	479.2	527.1	575.1	628.3	670.9	708.2	734.8	724.1	702.8
82.5°	282.2	282.2	308.8	356.7	394.0	426.0	484.5	532.5	564.4	553.8	527.1
85°	143.8	143.8	175.7	207.7	255.6	276.9	271.6	250.3	244.9	218.3	218.3
87.5°	37.3	37.3	53.2	58.6	47.9	53.2	53.2	53.2	53.2	53.2	58.6
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)