

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: P530328

Luminaire Tested: **GALN-SA5C-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31076 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

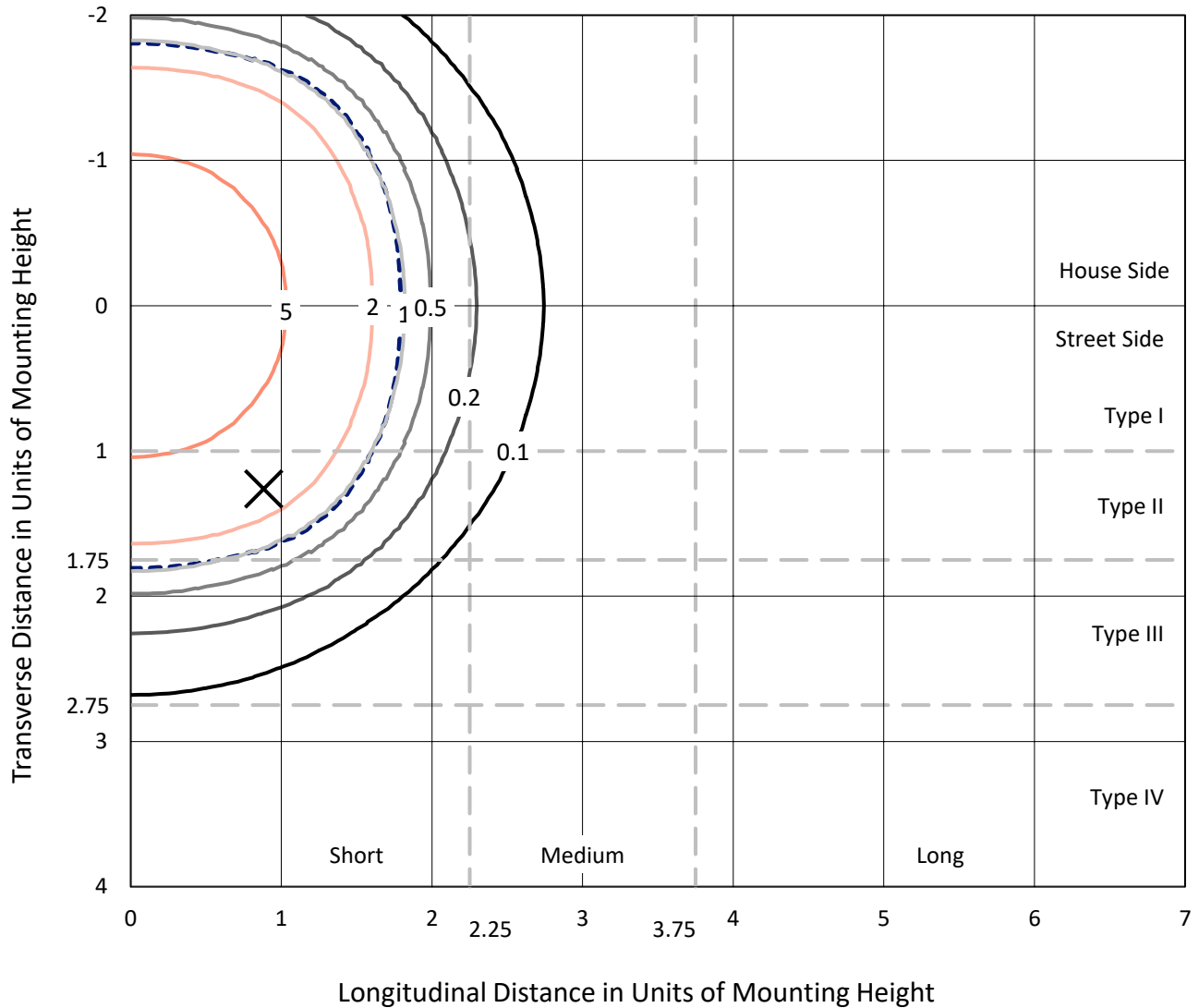
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

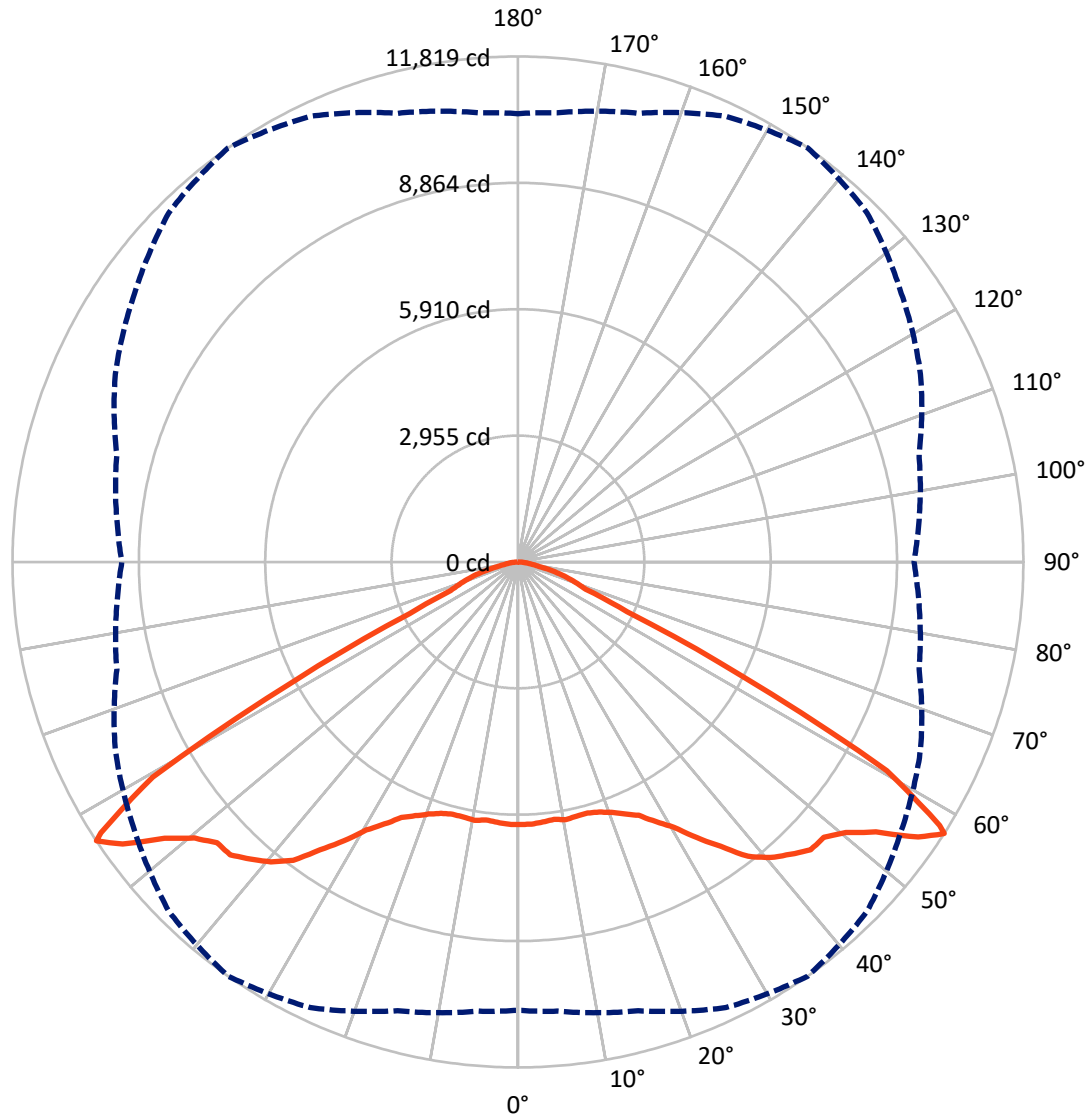
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15538.0	0.0	15538.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15538.0	0.0	15538.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31076.0	0.0	31076.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.8	1.9
10°-20°	1723.2	5.5
20°-30°	3009.6	9.7
30°-40°	4931.3	15.9
40°-50°	7230.5	23.3
50°-60°	9107.4	29.3
60°-70°	3425.2	11.0
70°-80°	910.7	2.9
80°-90°	156.2	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°	31076.0	100.0
0°-180°	31076.0	100.0

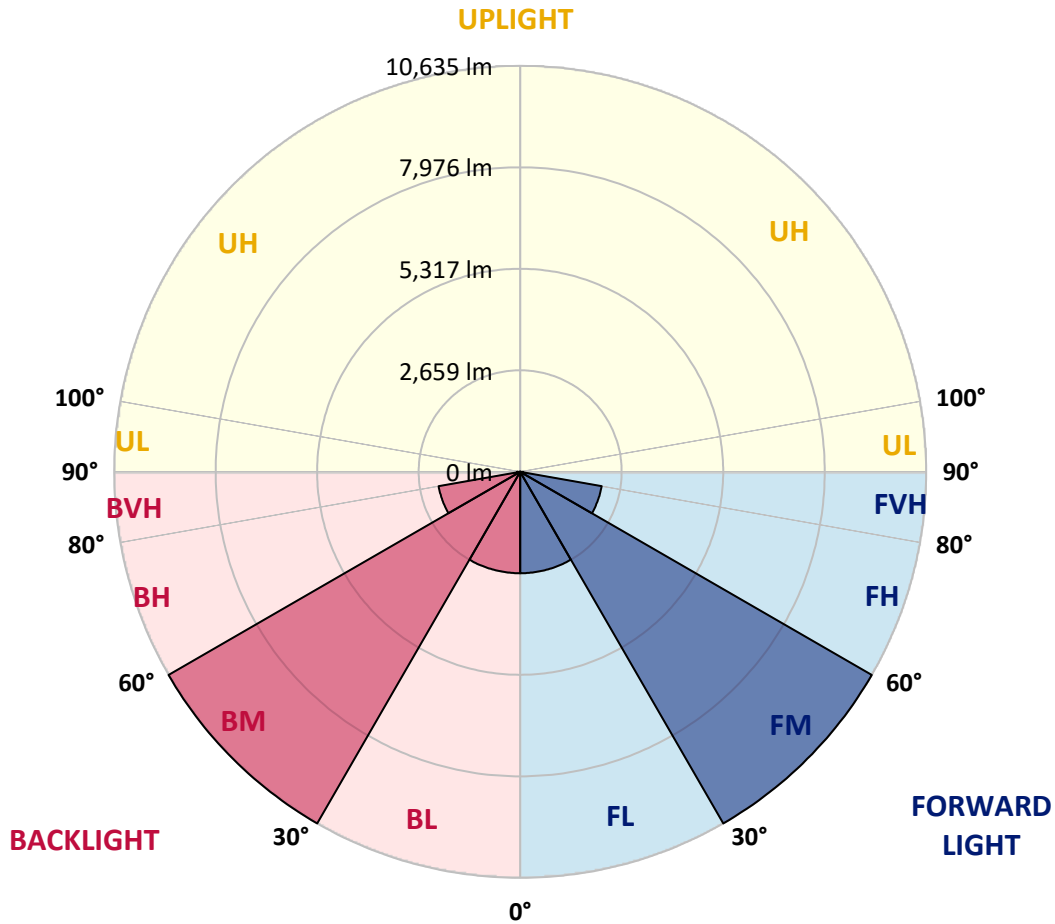


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2657.3	8.6			
FM (30°-60°)	10634.6	34.2			
FH (60°-80°)	2168.0	7.0			G2/5000
FVH (80°-90°)	78.1	0.3			G1/100
BL (0°-30°)	2657.3	8.6	B4/5000		
BM (30°-60°)	10634.6	34.2	B5		
BH (60°-80°)	2168.0	7.0	B3/2500		G2/5000
BVH (80°-90°)	78.1	0.3			G1/100
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°	6137.3	6137.3	6137.3	6137.3	6137.3	6137.3	6137.3	6137.3	6137.3	6137.3	6137.3
2.5°	6106.7	6167.9	6141.1	6125.8	6137.3	6118.1	6087.5	6122.0	6114.3	6083.7	6072.2
5°	6091.3	6137.3	6106.7	6137.3	6106.7	6160.3	6144.9	6087.5	6156.4	6091.3	6114.3
7.5°	6079.9	6095.2	6102.8	6087.5	6076.0	6141.1	6106.7	6079.9	6041.6	6030.1	6049.2
10°	6053.1	6091.3	6033.9	6110.5	6125.8	6079.9	6079.9	6030.1	5999.5	5980.3	6045.4
12.5°	6122.0	6056.9	6049.2	6087.5	6099.0	6118.1	6064.5	6037.7	5980.3	5988.0	5976.5
15°	6041.6	6068.4	6072.2	6079.9	6091.3	6137.3	6087.5	6030.1	6007.1	5926.7	5934.4
17.5°	6072.2	6045.4	6072.2	6160.3	6144.9	6179.4	6125.8	6037.7	5984.1	5938.2	5999.5
20°	6125.8	6114.3	6125.8	6233.0	6252.1	6282.8	6236.8	6156.4	6053.1	5999.5	6030.1
22.5°	6183.2	6175.6	6183.2	6286.6	6397.6	6435.9	6390.0	6202.4	6148.8	6049.2	6014.8
25°	6286.6	6294.3	6374.7	6489.5	6562.3	6635.0	6550.8	6416.8	6244.5	6183.2	6110.5
27.5°	6516.3	6535.5	6581.4	6749.9	6876.2	6941.3	6822.6	6638.8	6531.6	6405.3	6386.1
30°	6799.6	6799.6	6880.0	7025.5	7197.8	7297.4	7151.9	6933.6	6803.5	6734.5	6692.4
32.5°	7174.8	7132.7	7163.4	7419.9	7687.9	7772.1	7576.8	7308.8	7102.1	7010.2	6979.6
35°	7496.4	7523.2	7592.2	7867.8	8166.5	8361.7	8055.4	7707.0	7496.4	7412.2	7396.9
37.5°	7913.8	7959.7	7994.2	8373.2	8733.1	8805.8	8511.0	8231.5	7975.0	7906.1	7867.8
40°	8503.4	8472.7	8484.2	8763.7	9089.1	9135.1	8844.1	8645.0	8434.5	8392.3	8392.3
42.5°	8989.6	8955.1	8993.4	9096.8	9345.7	9311.2	9150.4	9004.9	8916.9	8870.9	8916.9
45°	9284.4	9276.8	9345.7	9422.2	9598.4	9483.5	9357.2	9380.1	9295.9	9219.3	9215.5
47.5°	9606.0	9556.2	9640.5	9755.3	9621.3	9567.7	9560.1	9609.8	9583.0	9449.0	9406.9
50°	9763.0	9743.8	9877.8	10011.8	9939.1	9816.6	9843.4	9923.8	9579.2	9399.3	9295.9
52.5°	10184.1	10188.0	10444.5	10517.2	10486.6	10306.7	10364.1	10145.8	9740.0	9487.3	9498.8
55°	10846.5	10819.7	11106.8	11321.2	11355.7	11126.0	10850.3	10544.0	10034.8	9778.3	9701.7
57°	10482.8	10544.0	10861.8	11497.4	11819.0	11547.1	10946.0	10387.1	9709.4	9399.3	9261.4
57.5°	9996.5	10096.1	10647.4	11286.8	11623.7	11600.7	10827.3	10096.1	9491.2	9008.7	9020.2
60°	7324.2	7343.3	7841.0	8855.6	9908.5	9931.4	8989.6	8021.0	7347.1	6822.6	6895.3
62.5°	3863.1	3951.1	4150.2	4965.7	5876.9	6099.0	5528.5	5030.8	4448.9	4050.7	4089.0
65°	2044.5	2033.0	2128.7	2358.4	2806.4	2921.2	2844.7	2450.3	2247.4	2182.3	2186.1
67.5°	1661.6	1680.8	1669.3	1680.8	1711.4	1761.2	1749.7	1765.0	1776.5	1795.6	1791.8
70°	1408.9	1408.9	1416.6	1420.4	1420.4	1443.4	1470.2	1520.0	1523.8	1542.9	1550.6
72.5°	1110.3	1102.6	1114.1	1140.9	1144.8	1163.9	1202.2	1232.8	1244.3	1244.3	1221.3
75°	754.2	761.9	777.2	800.2	823.2	857.6	888.2	907.4	915.0	903.6	892.1
77.5°	425.0	432.6	444.1	478.6	505.4	536.0	570.5	589.6	608.8	612.6	589.6
80°	252.7	252.7	271.8	298.6	329.3	359.9	390.5	413.5	421.1	421.1	409.7
82.5°	153.1	157.0	172.3	199.1	225.9	245.0	271.8	291.0	306.3	302.5	294.8
85°	80.4	80.4	95.7	118.7	137.8	157.0	157.0	145.5	137.8	118.7	111.0
87.5°	26.8	23.0	30.6	30.6	26.8	30.6	30.6	34.5	34.5	34.5	34.5
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)