

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: P534176

Luminaire Tested: **GALN-SA9C-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534176
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-SA9C-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 44704 lumens
Efficiency: N/A
Efficacy: 92.9 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): 481
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

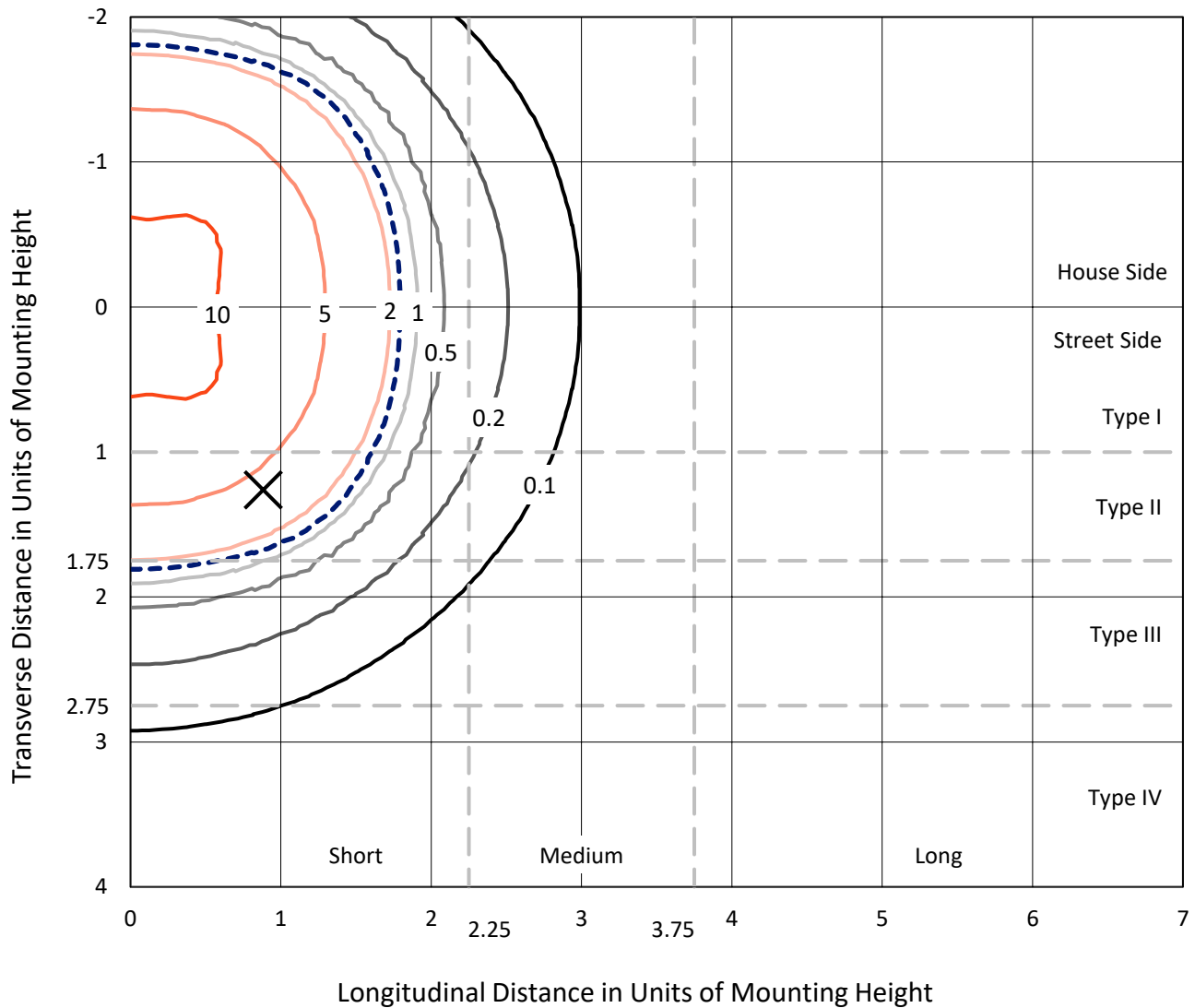


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

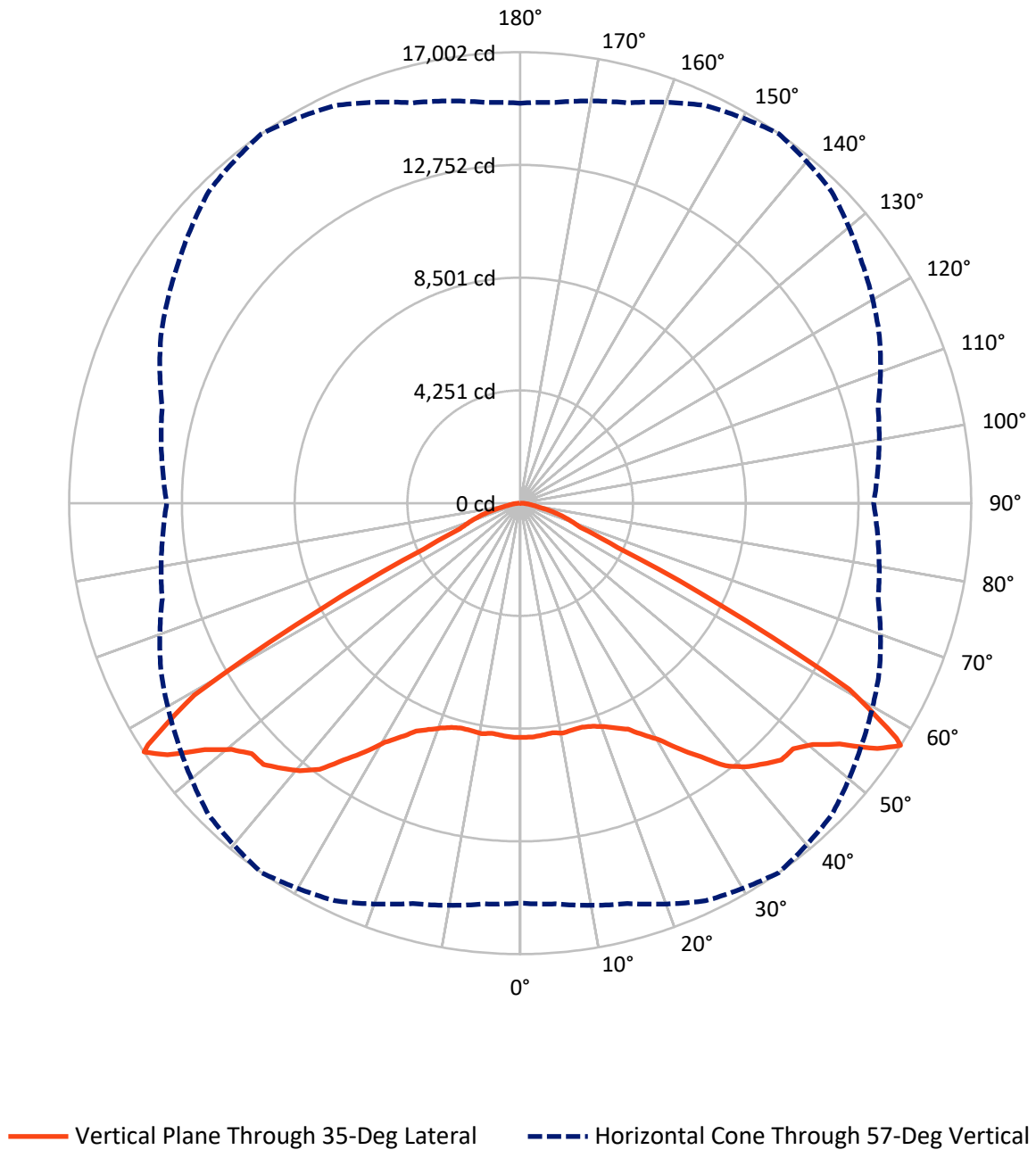


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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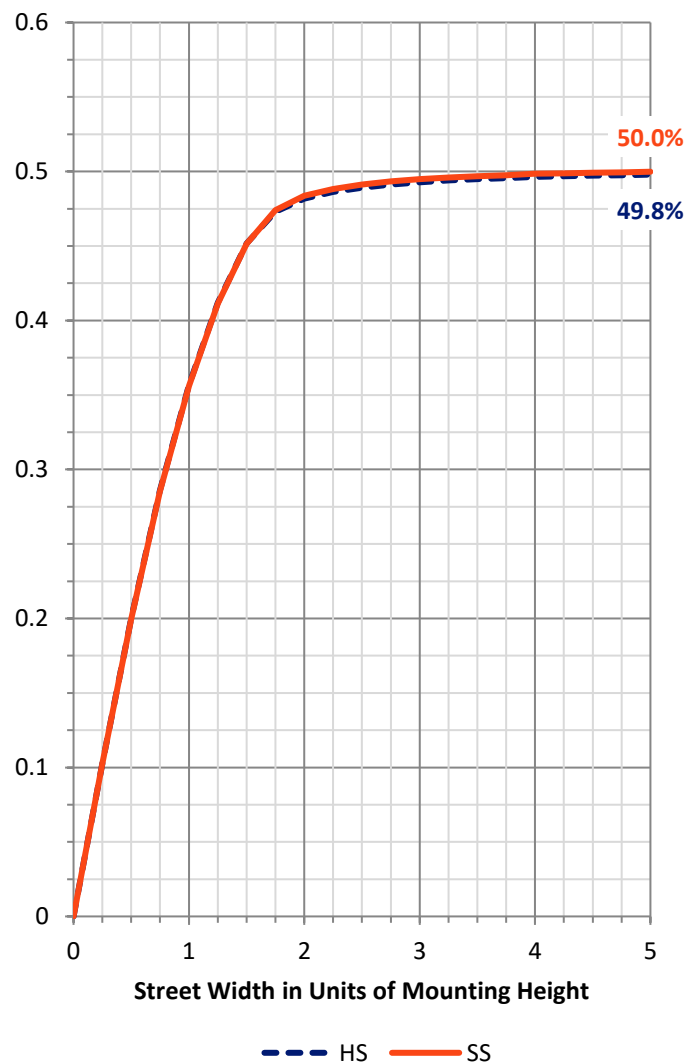
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22352.0	0.0	22352.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22352.0	0.0	22352.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44704.0	0.0	44704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.0	1.9
10°-20°	2478.9	5.5
20°-30°	4329.4	9.7
30°-40°	7093.9	15.9
40°-50°	10401.4	23.3
50°-60°	13101.3	29.3
60°-70°	4927.3	11.0
70°-80°	1310.1	2.9
80°-90°	224.6	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°	44704.0	100.0
0°-180°	44704.0	100.0

Coefficient of Utilization



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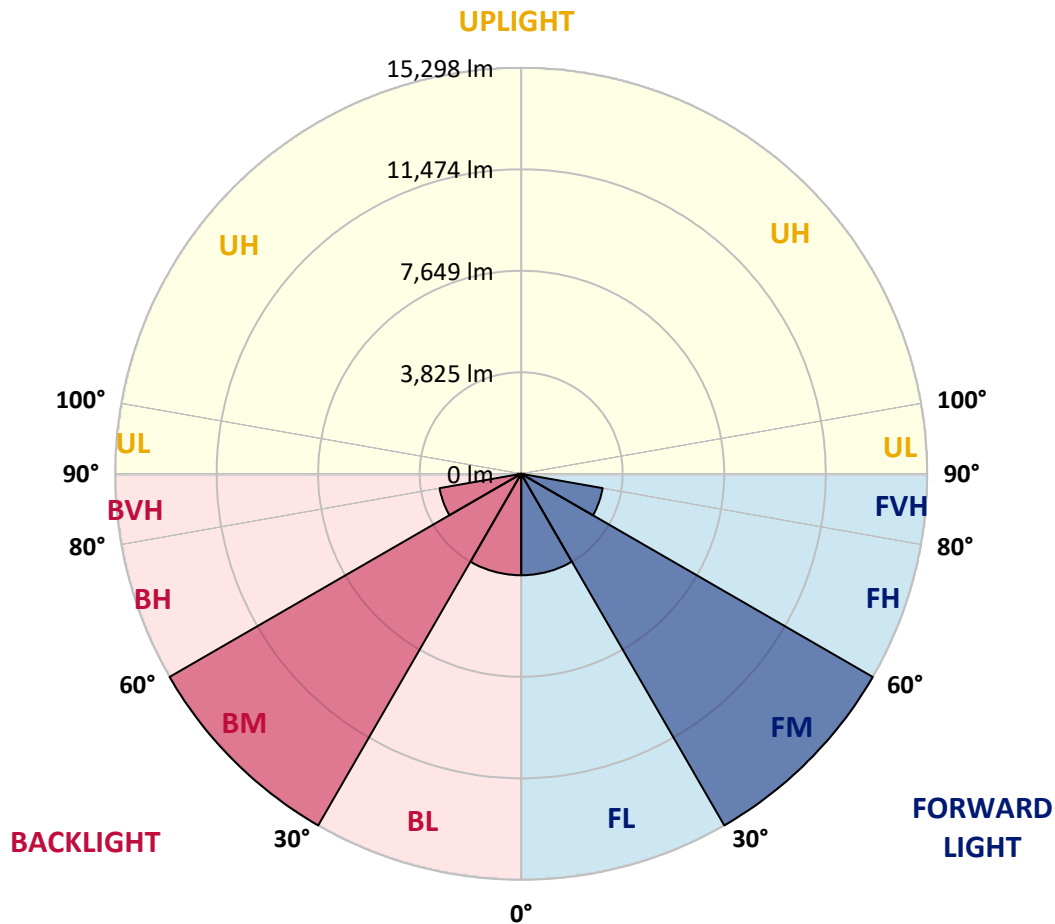
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3822.7	8.6			
FM	(30°-60°)	15298.3	34.2			
FH	(60°-80°)	3118.7	7.0			G2/5000
FVH	(80°-90°)	112.3	0.3			G2/225
BL	(0°-30°)	3822.7	8.6	B4/5000		
BM	(30°-60°)	15298.3	34.2	B5		
BH	(60°-80°)	3118.7	7.0	B4/5000		G2/5000
BVH	(80°-90°)	112.3	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°	8828.7	8828.7	8828.7	8828.7	8828.7	8828.7	8828.7	8828.7	8828.7	8828.7	8828.7
2.5°	8784.6	8872.8	8834.2	8812.2	8828.7	8801.2	8757.1	8806.7	8795.7	8751.6	8735.1
5°	8762.6	8828.7	8784.6	8828.7	8784.6	8861.8	8839.7	8757.1	8856.2	8762.6	8795.7
7.5°	8746.1	8768.1	8779.1	8757.1	8740.6	8834.2	8784.6	8746.1	8691.0	8674.5	8702.0
10°	8707.5	8762.6	8680.0	8790.2	8812.2	8746.1	8746.1	8674.5	8630.4	8602.9	8696.5
12.5°	8806.7	8713.1	8702.0	8757.1	8773.6	8801.2	8724.1	8685.5	8602.9	8613.9	8597.4
15°	8691.0	8729.6	8735.1	8746.1	8762.6	8828.7	8757.1	8674.5	8641.5	8525.8	8536.8
17.5°	8735.1	8696.5	8735.1	8861.8	8839.7	8889.3	8812.2	8685.5	8608.4	8542.3	8630.4
20°	8812.2	8795.7	8812.2	8966.4	8993.9	9038.0	8971.9	8856.2	8707.5	8630.4	8674.5
22.5°	8894.8	8883.8	8894.8	9043.5	9203.2	9258.3	9192.2	8922.3	8845.2	8702.0	8652.5
25°	9043.5	9054.5	9170.2	9335.4	9440.1	9544.7	9423.5	9230.8	8982.9	8894.8	8790.2
27.5°	9374.0	9401.5	9467.6	9709.9	9891.7	9985.3	9814.6	9550.2	9396.0	9214.2	9186.7
30°	9781.5	9781.5	9897.2	10106.5	10354.3	10497.5	10288.2	9974.3	9787.0	9687.9	9627.3
32.5°	10321.3	10260.7	10304.8	10673.8	11059.3	11180.5	10899.6	10514.0	10216.6	10084.4	10040.4
35°	10783.9	10822.5	10921.6	11318.2	11747.7	12028.6	11588.0	11086.8	10783.9	10662.7	10640.7
37.5°	11384.2	11450.3	11499.9	12045.2	12562.9	12667.5	12243.4	11841.4	11472.4	11373.2	11318.2
40°	12232.4	12188.4	12204.9	12606.9	13075.1	13141.2	12722.6	12436.2	12133.3	12072.7	12072.7
42.5°	12931.9	12882.3	12937.4	13086.1	13444.1	13394.5	13163.2	12953.9	12827.2	12761.1	12827.2
45°	13356.0	13345.0	13444.1	13554.2	13807.6	13642.4	13460.6	13493.7	13372.5	13262.3	13256.8
47.5°	13818.6	13747.0	13868.2	14033.4	13840.6	13763.5	13752.5	13824.1	13785.6	13592.8	13532.2
50°	14044.4	14016.9	14209.7	14402.4	14297.8	14121.5	14160.1	14275.7	13780.1	13521.2	13372.5
52.5°	14650.3	14655.8	15024.8	15129.4	15085.4	14826.5	14909.1	14595.2	14011.4	13647.9	13664.4
55°	15603.1	15564.5	15977.6	16286.0	16335.6	16005.1	15608.6	15168.0	14435.5	14066.5	13956.3
57°	15079.9	15168.0	15625.1	16539.4	17002.0	16611.0	15746.3	14942.2	13967.3	13521.2	13322.9
57.5°	14380.4	14523.6	15316.7	16236.5	16721.1	16688.1	15575.5	14523.6	13653.4	12959.4	12975.9
60°	10536.1	10563.6	11279.6	12739.1	14253.7	14286.8	12931.9	11538.5	10569.1	9814.6	9919.2
62.5°	5557.2	5683.9	5970.3	7143.4	8454.2	8773.6	7953.0	7237.0	6399.9	5827.1	5882.1
65°	2941.1	2924.5	3062.2	3392.7	4037.1	4202.3	4092.2	3524.9	3233.0	3139.3	3144.8
67.5°	2390.3	2417.8	2401.3	2417.8	2461.9	2533.5	2517.0	2539.0	2555.5	2583.1	2577.6
70°	2026.8	2026.8	2037.8	2043.3	2043.3	2076.4	2114.9	2186.5	2192.0	2219.6	2230.6
72.5°	1597.2	1586.2	1602.7	1641.3	1646.8	1674.3	1729.4	1773.5	1790.0	1790.0	1756.9
75°	1085.0	1096.0	1118.0	1151.1	1184.1	1233.7	1277.8	1305.3	1316.3	1299.8	1283.3
77.5°	611.3	622.4	638.9	688.5	727.0	771.1	820.6	848.2	875.7	881.2	848.2
80°	363.5	363.5	391.0	429.6	473.7	517.7	561.8	594.8	605.8	605.8	589.3
82.5°	220.3	225.8	247.8	286.4	324.9	352.5	391.0	418.6	440.6	435.1	424.1
85°	115.7	115.7	137.7	170.7	198.3	225.8	225.8	209.3	198.3	170.7	159.7
87.5°	38.6	33.0	44.1	44.1	38.6	44.1	44.1	49.6	49.6	49.6	49.6
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)