

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: P528563

Luminaire Tested: **GALN-SA3C-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8699 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

Input Watts (W): 160
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



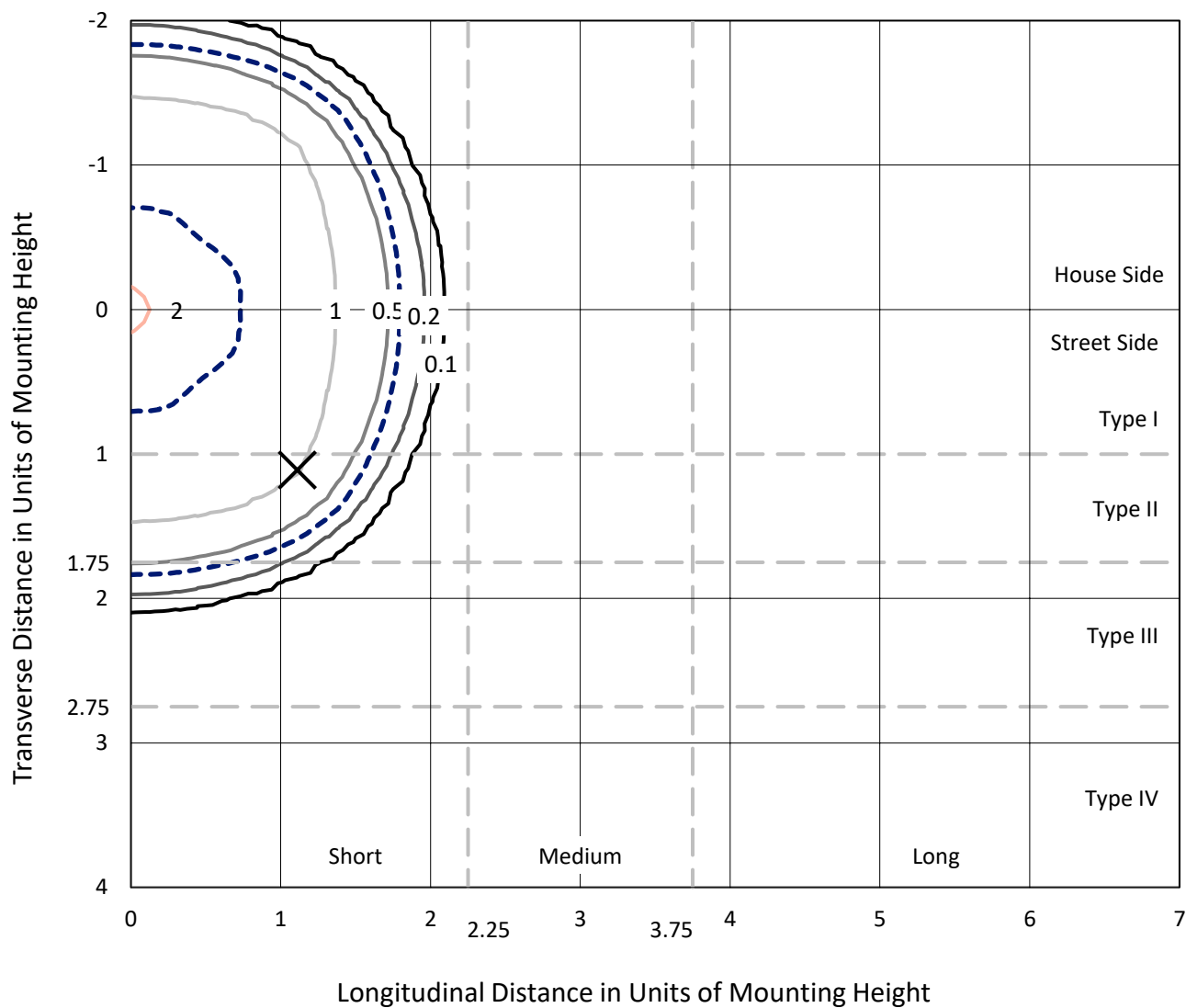
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

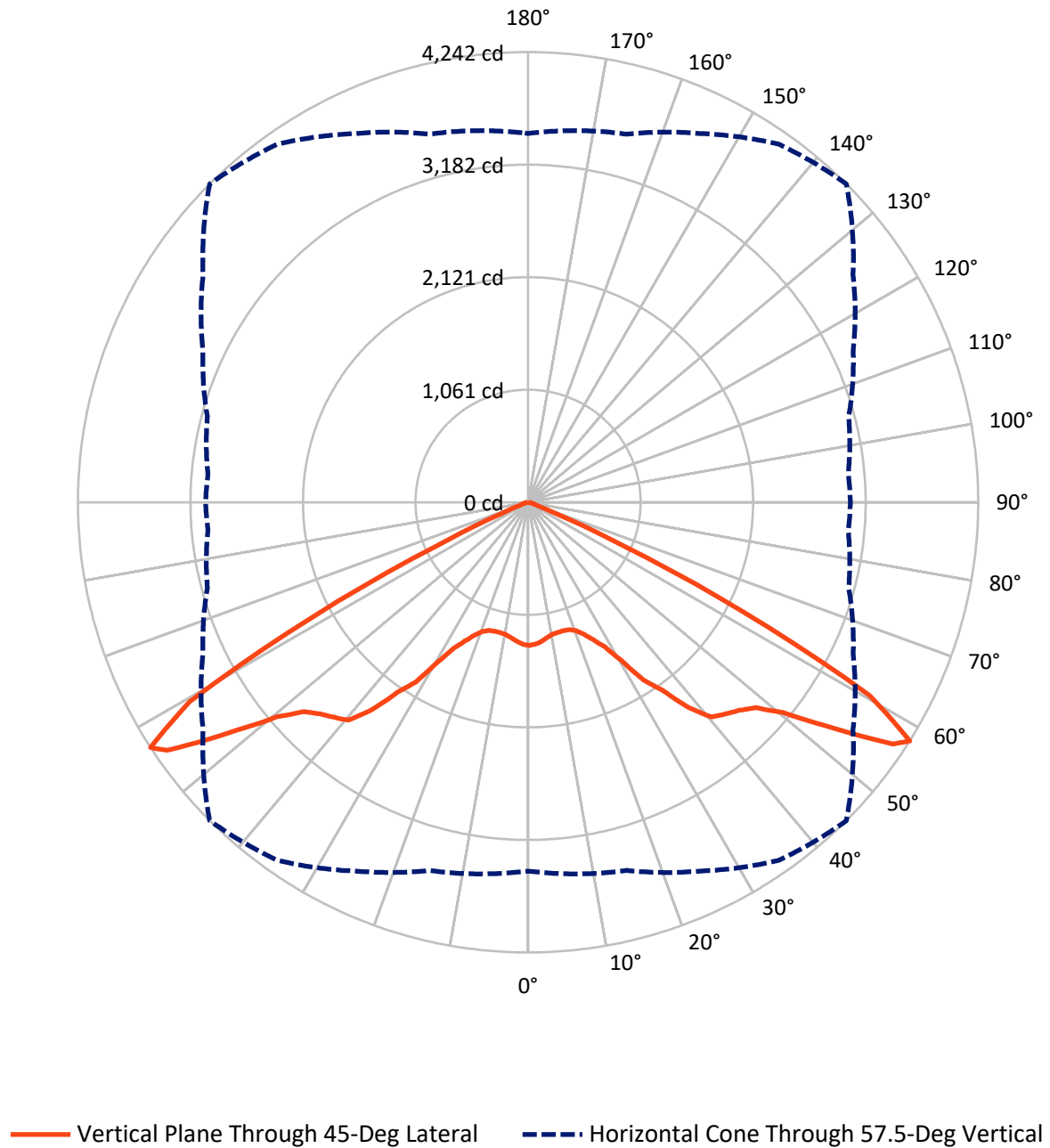
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	4349.5	0.0	4349.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4349.5	0.0	4349.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8699.0	0.0	8699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.4
10°-20°	358.4	4.1
20°-30°	661.6	7.6
30°-40°	1301.0	15.0
40°-50°	2119.0	24.4
50°-60°	3022.0	34.7
60°-70°	1046.3	12.0
70°-80°	56.1	0.6
80°-90°	10.5	0.1
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°	8699.0	100.0
0°-180°	8699.0	100.0

Coefficient of Utilization



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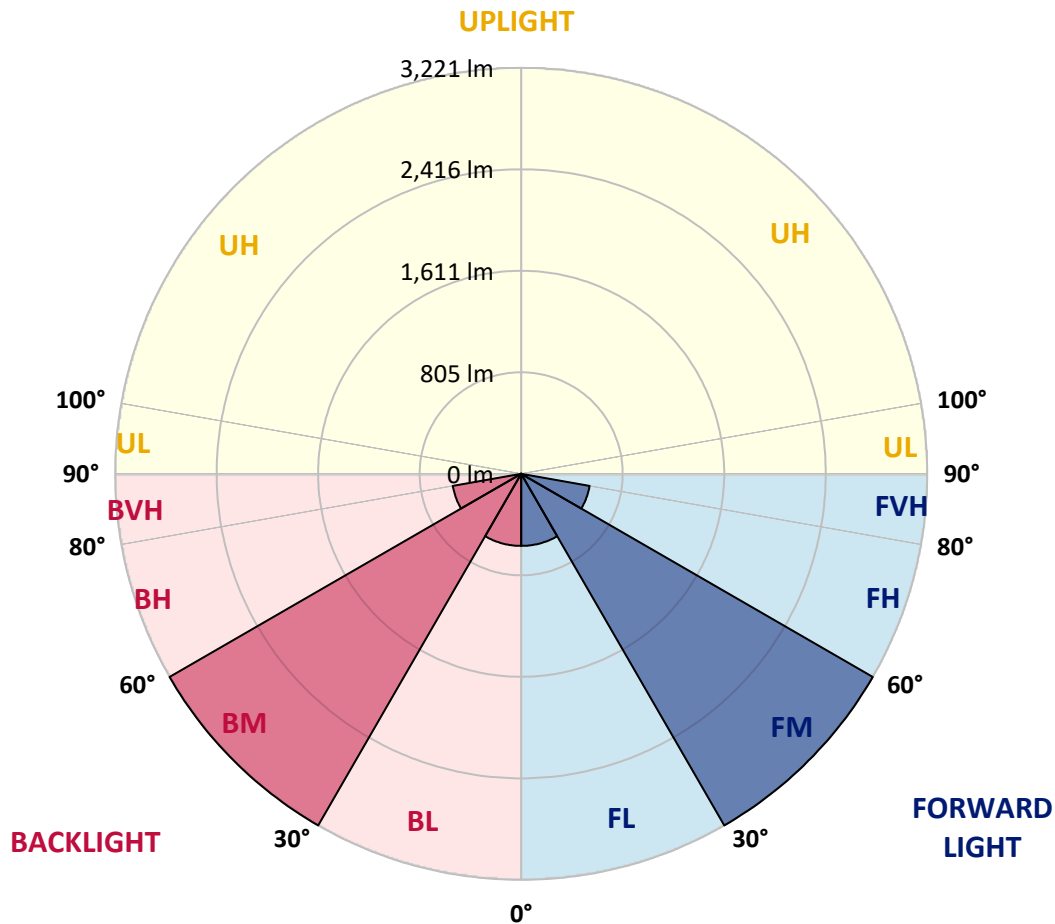
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	572.0	6.6			
FM	(30°-60°)	3221.0	37.0			
FH	(60°-80°)	551.2	6.3			G0/660
FVH	(80°-90°)	5.3	0.1			G0/10
BL	(0°-30°)	572.0	6.6	B2/1000		
BM	(30°-60°)	3221.0	37.0	B3/5000		
BH	(60°-80°)	551.2	6.3	B2/1000		G0/660
BVH	(80°-90°)	5.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3
2.5°	1345.7	1352.9	1343.9	1340.2	1338.4	1338.4	1333.0	1333.0	1331.2	1333.0	1325.7
5°	1323.9	1331.2	1331.2	1329.4	1318.5	1316.7	1311.2	1307.6	1309.4	1302.2	1307.6
7.5°	1302.2	1307.6	1300.3	1298.5	1294.9	1287.6	1285.8	1269.5	1271.3	1271.3	1274.9
10°	1298.5	1296.7	1285.8	1276.8	1265.9	1264.1	1258.6	1255.0	1255.0	1253.2	1258.6
12.5°	1298.5	1289.5	1287.6	1267.7	1249.6	1256.8	1242.3	1233.2	1245.9	1249.6	1256.8
15°	1296.7	1305.8	1274.9	1265.9	1253.2	1255.0	1242.3	1233.2	1240.5	1244.1	1249.6
17.5°	1307.6	1302.2	1293.1	1274.9	1269.5	1262.3	1245.9	1238.7	1238.7	1247.7	1249.6
20°	1336.6	1322.1	1304.0	1294.9	1300.3	1291.3	1271.3	1244.1	1251.4	1258.6	1264.1
22.5°	1363.8	1352.9	1340.2	1334.8	1365.6	1351.1	1316.7	1285.8	1274.9	1287.6	1296.7
25°	1416.4	1416.4	1392.8	1400.1	1434.5	1436.4	1396.5	1342.1	1334.8	1340.2	1343.9
27.5°	1523.4	1528.9	1508.9	1516.2	1530.7	1543.4	1508.9	1463.6	1447.2	1445.4	1450.9
30°	1639.5	1650.4	1648.5	1679.4	1721.1	1728.3	1677.6	1603.2	1554.2	1545.2	1552.4
32.5°	1791.8	1797.3	1793.6	1829.9	1942.3	1994.9	1862.6	1757.4	1692.1	1708.4	1692.1
35°	2078.4	2072.9	2033.0	2040.3	2132.8	2170.9	2043.9	1976.8	1946.0	1978.6	1971.4
37.5°	2325.0	2305.1	2272.4	2319.6	2415.7	2450.2	2317.8	2199.9	2143.7	2198.1	2221.6
40°	2533.6	2482.8	2437.5	2484.6	2613.4	2660.5	2466.5	2370.4	2348.6	2388.5	2439.3
42.5°	2709.5	2676.8	2617.0	2620.6	2705.9	2727.6	2571.7	2515.4	2493.7	2557.2	2582.5
45°	2834.6	2803.8	2747.6	2744.0	2809.2	2794.7	2655.1	2617.0	2629.7	2671.4	2684.1
47.5°	2898.1	2914.4	2881.8	2890.9	2925.3	2890.9	2780.2	2780.2	2751.2	2776.6	2763.9
50°	3081.3	3030.5	3072.2	3072.2	3108.5	3112.1	3001.5	2961.6	2883.6	2840.1	2840.1
52.5°	3295.3	3298.9	3315.2	3375.1	3436.7	3489.3	3331.6	3161.1	3030.5	2974.3	2967.0
55°	3471.2	3507.5	3572.8	3685.2	3862.9	3935.5	3663.4	3358.8	3199.2	3112.1	3094.0
56°	3567.3	3532.9	3645.3	3799.5	4031.6	4125.9	3717.8	3398.7	3222.7	3124.8	3123.0
57.5°	3474.8	3512.9	3590.9	3833.9	4118.6	4242.0	3737.8	3380.5	3128.4	3028.7	3037.8
60°	2744.0	2780.2	2885.4	3157.4	3603.6	3699.7	3162.9	2787.5	2562.6	2419.3	2421.1
62.5°	1552.4	1579.6	1661.2	1913.3	2190.8	2283.3	1971.4	1721.1	1565.1	1485.3	1459.9
65°	571.3	560.4	573.1	701.9	872.3	950.3	819.7	692.8	611.2	582.2	571.3
67.5°	214.0	197.7	185.0	197.7	248.5	263.0	241.2	201.3	188.6	194.1	197.7
70°	132.4	125.1	99.7	94.3	92.5	90.7	96.1	101.6	116.1	136.0	139.6
72.5°	92.5	87.1	70.7	67.1	63.5	61.7	70.7	78.0	90.7	105.2	107.0
75°	36.3	38.1	36.3	39.9	41.7	43.5	50.8	56.2	61.7	61.7	59.8
77.5°	7.3	7.3	10.9	14.5	18.1	23.6	34.5	39.9	41.7	39.9	34.5
80°	0.0	0.0	3.6	7.3	14.5	19.9	30.8	34.5	38.1	34.5	27.2
82.5°	0.0	0.0	3.6	9.1	14.5	18.1	29.0	36.3	41.7	38.1	29.0
85°	0.0	0.0	3.6	7.3	10.9	12.7	12.7	9.1	9.1	5.4	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)