

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: P451526

Luminaire Tested: **GALN-SA2B-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9517 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 82
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



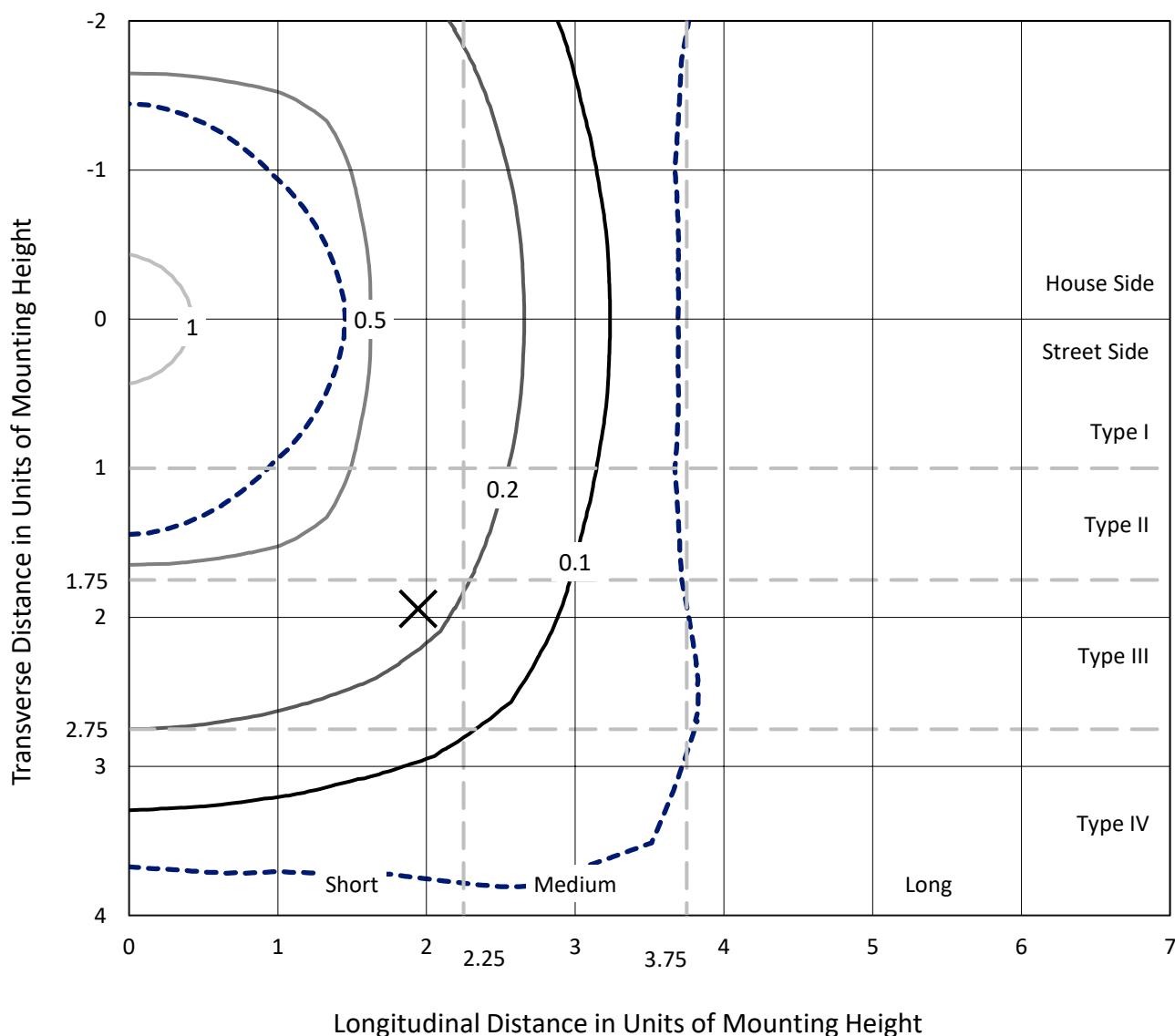
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



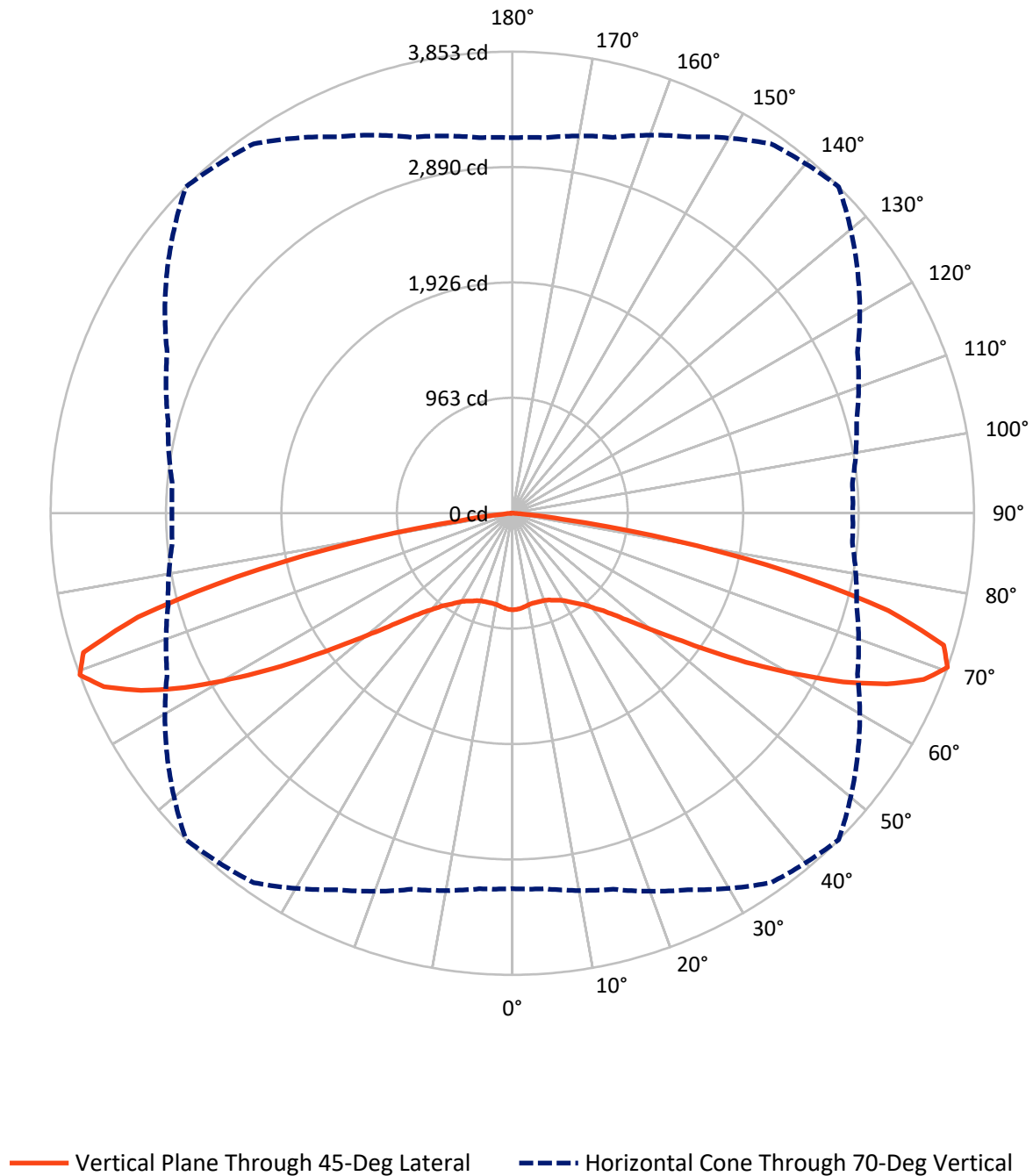
Based on 25 foot mounting height. Maximum calculated value = 1.3 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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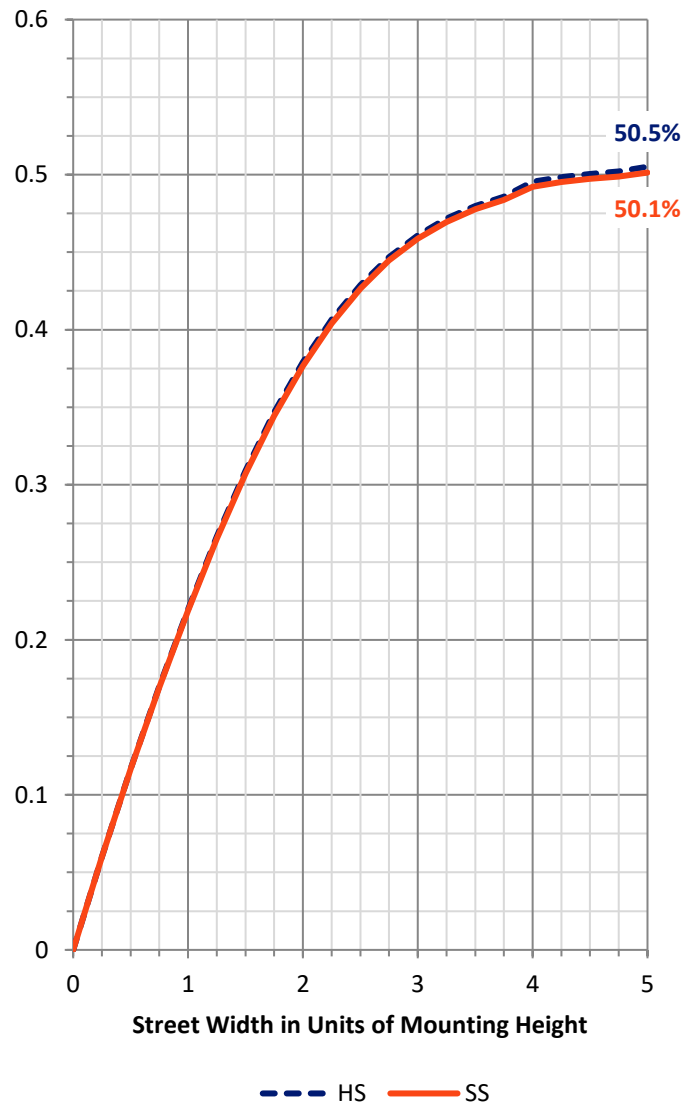
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4758.5	0.0	4758.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4758.5	0.0	4758.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9517.0	0.0	9517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	0.8
10°-20°	220.6	2.3
20°-30°	375.8	3.9
30°-40°	582.5	6.1
40°-50°	980.5	10.3
50°-60°	1784.0	18.7
60°-70°	3020.3	31.7
70°-80°	2337.8	24.6
80°-90°	140.1	1.5
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°	9517.0	100.0
0°-180°	9517.0	100.0

Coefficient of Utilization



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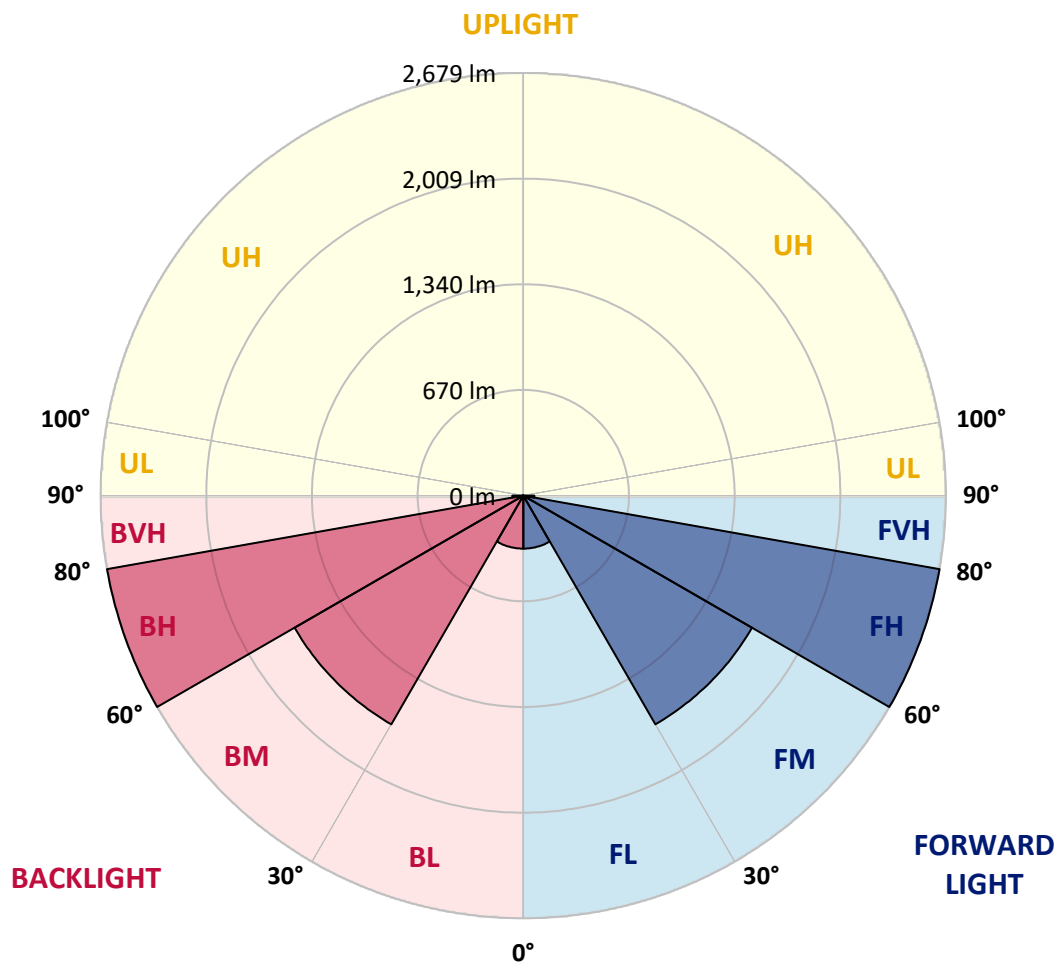
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.9	3.5			
FM	(30°-60°)	1673.5	17.6			
FH	(60°-80°)	2679.0	28.1			G2/5000
FVH	(80°-90°)	70.0	0.7			G1/100
BL	(0°-30°)	335.9	3.5	B1/500		
BM	(30°-60°)	1673.5	17.6	B2/2500		
BH	(60°-80°)	2679.0	28.1	B4/5000		G2/5000
BVH	(80°-90°)	70.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	803.7	804.2	804.2	803.2	802.7	802.7	802.2	802.2	803.7	804.2	804.7
5°	796.7	796.7	796.7	796.2	795.2	795.2	794.2	794.2	794.7	796.2	795.2
7.5°	787.1	788.1	788.1	786.1	784.6	784.6	784.1	784.6	785.1	786.6	786.1
10°	784.1	784.6	782.1	778.6	776.1	774.6	775.1	776.1	778.6	779.6	780.1
12.5°	786.1	786.1	781.6	776.6	772.1	770.0	769.5	773.1	777.6	780.6	781.6
15°	788.6	787.6	782.1	775.6	771.0	770.5	770.0	772.6	779.1	785.1	785.6
17.5°	790.1	789.6	782.6	774.6	772.1	772.1	771.6	773.6	780.6	788.1	788.6
20°	795.2	793.7	785.6	777.1	775.1	776.1	774.6	777.1	784.6	793.7	795.7
22.5°	805.2	803.7	795.7	787.1	786.1	786.1	785.6	788.1	796.2	805.7	807.2
25°	817.3	815.8	808.2	802.2	803.2	805.2	804.2	804.7	811.3	819.3	821.8
27.5°	833.4	830.9	824.3	819.3	822.3	822.3	822.3	821.8	825.8	833.4	835.9
30°	853.0	852.0	844.9	844.4	846.9	844.4	844.4	844.9	845.4	852.5	855.0
32.5°	878.6	876.6	873.1	872.1	879.1	881.1	874.1	867.6	871.1	878.1	879.6
35°	920.8	917.8	912.8	907.3	912.8	922.3	907.3	902.2	911.3	920.8	921.8
37.5°	978.1	976.6	968.6	958.5	958.0	968.1	952.5	952.0	969.1	980.6	982.2
40°	1050.0	1051.5	1041.5	1031.9	1026.9	1034.9	1022.9	1027.4	1044.0	1057.1	1056.0
42.5°	1151.0	1145.5	1129.9	1120.9	1115.4	1112.3	1109.3	1116.4	1135.0	1149.0	1160.1
45°	1269.2	1267.2	1247.6	1236.5	1224.4	1219.9	1218.9	1231.5	1254.1	1271.2	1272.7
47.5°	1402.9	1398.3	1385.8	1374.2	1369.7	1364.2	1359.1	1368.7	1391.3	1403.4	1406.9
50°	1540.6	1541.6	1541.6	1539.6	1544.1	1545.1	1531.5	1535.1	1547.6	1546.6	1545.6
52.5°	1697.9	1703.4	1729.6	1732.1	1753.7	1768.3	1743.7	1729.1	1724.6	1697.4	1699.4
55°	1882.9	1887.9	1927.1	1966.3	2024.6	2049.3	1997.5	1952.3	1920.1	1878.9	1880.9
57.5°	2113.6	2116.1	2153.3	2228.7	2321.2	2379.0	2288.0	2198.5	2133.2	2094.0	2078.4
60°	2361.9	2364.4	2418.7	2510.7	2654.4	2724.8	2612.2	2465.9	2383.5	2323.7	2327.7
62.5°	2660.0	2670.0	2718.8	2845.4	3019.9	3098.8	2949.5	2754.0	2642.4	2568.0	2571.0
65°	2979.1	2996.2	3049.5	3188.7	3349.6	3434.5	3251.6	3025.9	2887.2	2796.2	2805.7
67.5°	3186.2	3201.3	3278.2	3432.0	3632.6	3702.9	3466.7	3203.8	3030.4	2921.8	2901.7
70°	3133.5	3146.0	3248.6	3466.7	3763.8	3852.7	3518.0	3177.7	2973.6	2848.5	2840.4
72.5°	2766.0	2739.9	2889.7	3202.8	3614.0	3763.3	3356.6	2902.2	2645.4	2516.7	2501.6
75°	1833.1	1889.9	2111.1	2480.0	3057.6	3242.5	2865.0	2330.2	2007.0	1900.0	1883.4
77.5°	612.7	656.4	853.0	1405.9	2084.4	2362.4	2087.5	1524.0	1078.2	868.6	872.6
80°	162.4	160.3	207.6	386.5	900.7	1368.2	1048.5	516.2	282.5	204.6	194.0
82.5°	58.3	65.3	83.9	107.1	238.8	425.2	300.1	144.8	106.1	78.4	75.9
85°	25.6	25.1	36.2	42.7	59.8	79.4	70.4	61.3	53.8	35.7	33.2
87.5°	5.5	5.5	8.5	6.5	10.6	10.6	13.1	15.6	16.1	10.6	8.5
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)