

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: P533476

Luminaire Tested: **GALN-SA8D-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44711 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 493
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

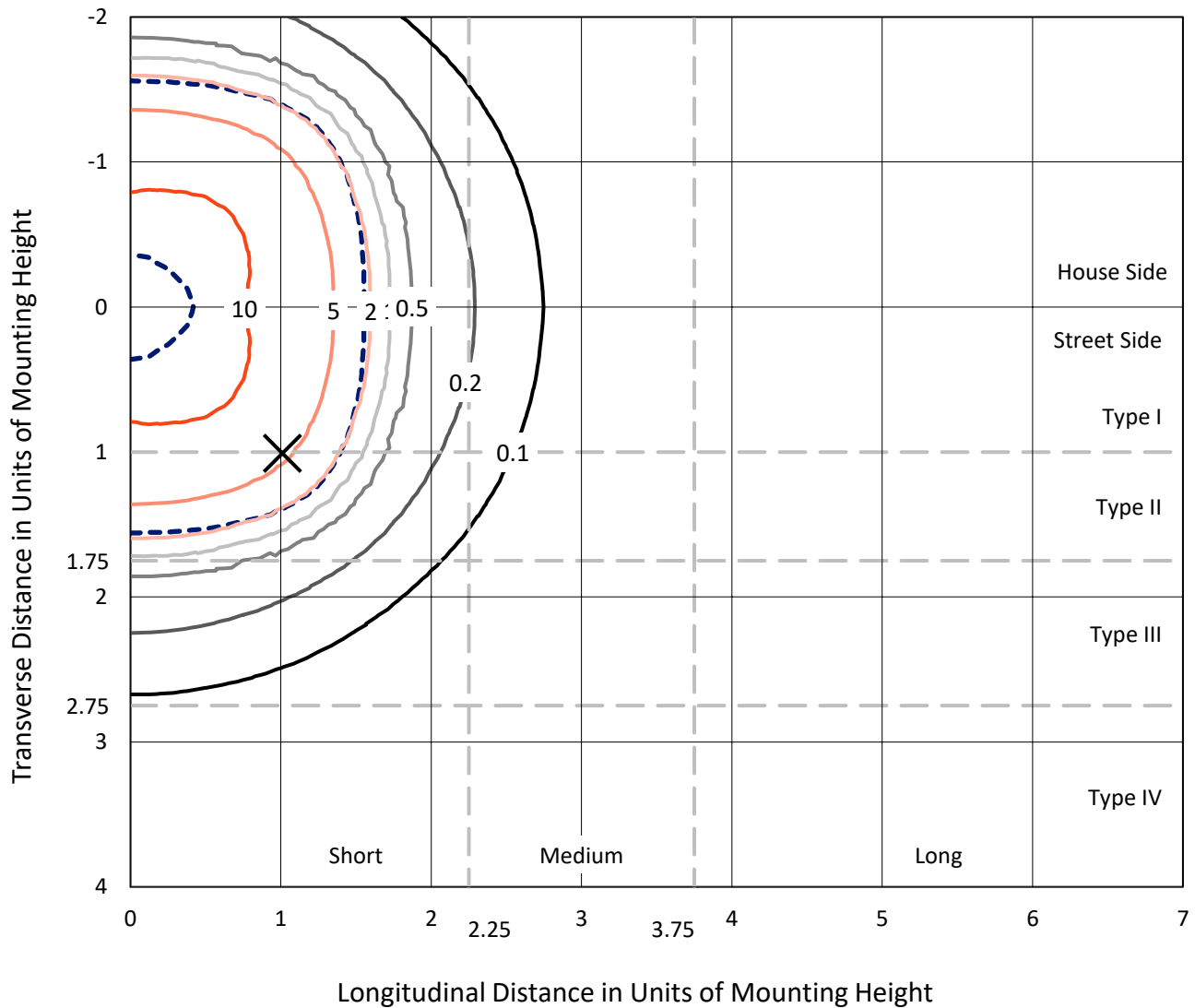


REPORT NUMBER: P533476

CATALOG NUMBER: GALN-SA8D-830-U-5NQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

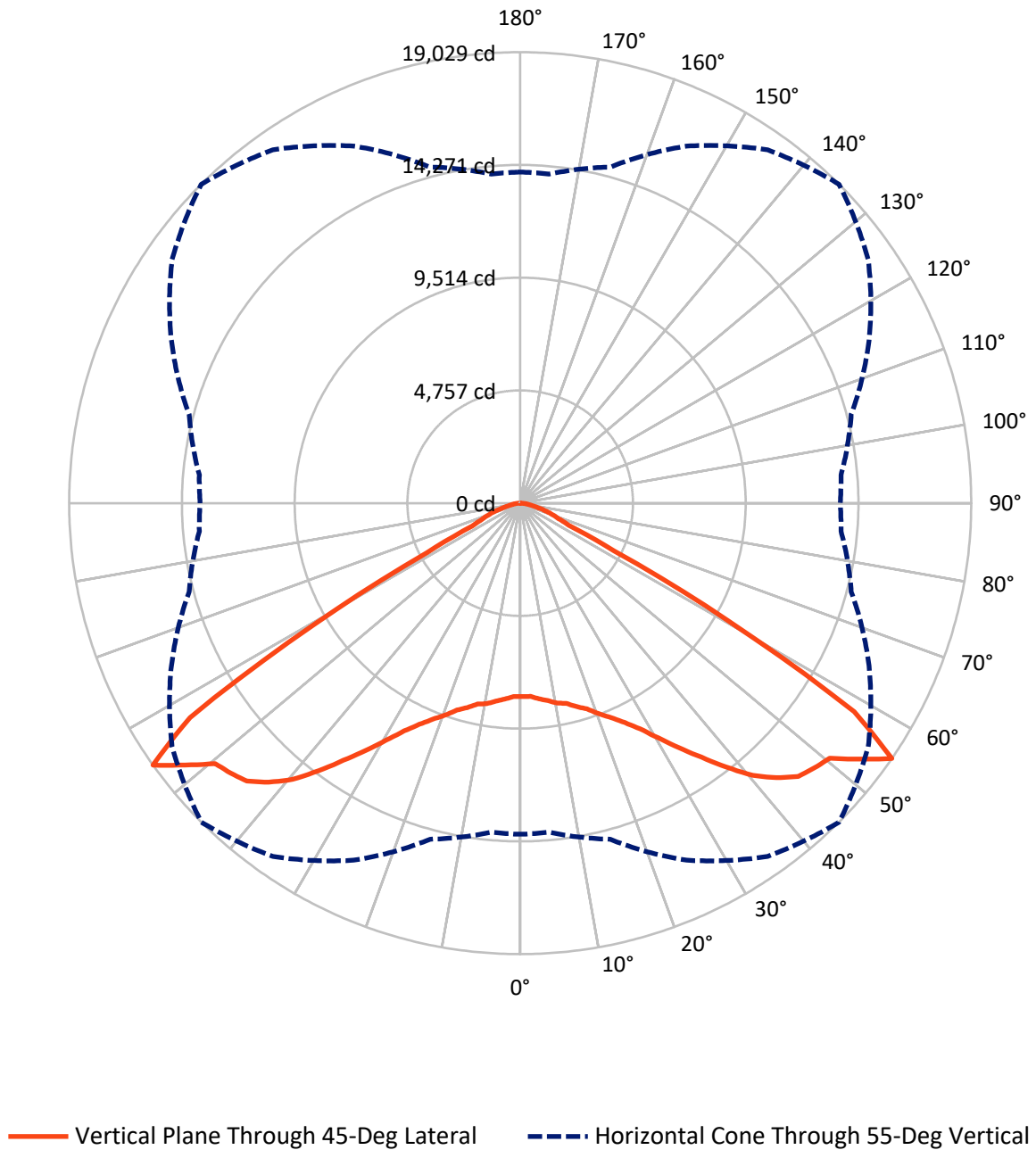


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type V - Short - N/A

REPORT NUMBER: P533476

CATALOG NUMBER: GALN-SA8D-830-U-5NQ-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533476

CATALOG NUMBER: GALN-SA8D-830-U-5NQ-GRSWH

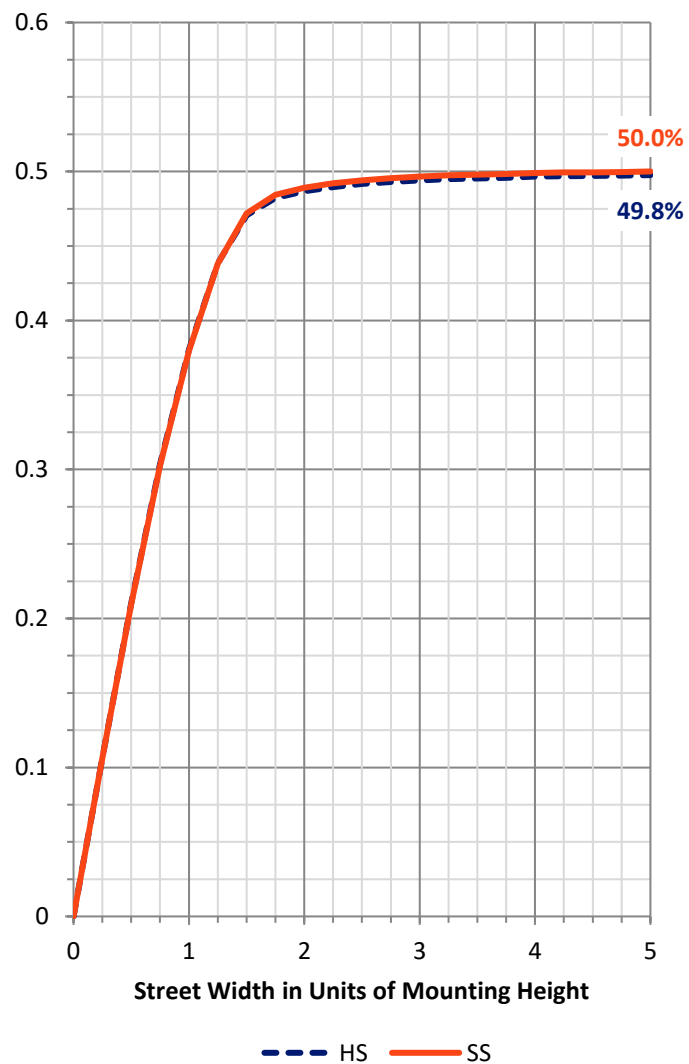
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22355.5	0.0	22355.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22355.5	0.0	22355.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44711.0	0.0	44711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	797.5	1.8
10°-20°	2526.9	5.7
20°-30°	4711.9	10.5
30°-40°	7889.2	17.6
40°-50°	12276.2	27.5
50°-60°	12746.5	28.5
60°-70°	2703.1	6.0
70°-80°	890.2	2.0
80°-90°	169.5	0.4
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°	44711.0	100.0
0°-180°	44711.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533476

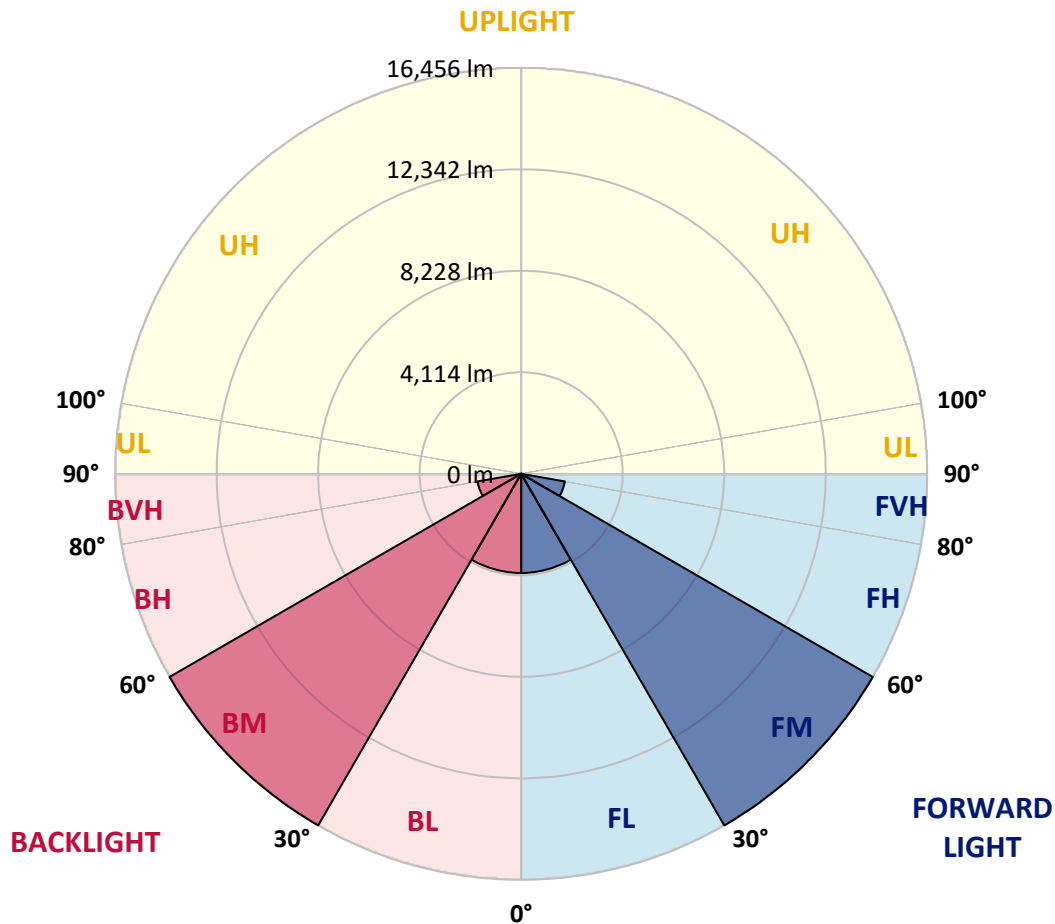
CATALOG NUMBER: GALN-SA8D-830-U-5NQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4018.1	9.0			
FM	(30°-60°)	16455.9	36.8			
FH	(60°-80°)	1796.7	4.0			G1/1800
FVH	(80°-90°)	84.8	0.2			G1/100
BL	(0°-30°)	4018.1	9.0	B4/5000		
BM	(30°-60°)	16455.9	36.8	B5		
BH	(60°-80°)	1796.7	4.0	B3/2500		G1/1800
BVH	(80°-90°)	84.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



REPORT NUMBER: P533476

CATALOG NUMBER: GALN-SA8D-830-U-5NQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8163.6	8163.6	8163.6	8163.6	8163.6	8163.6	8163.6	8163.6	8163.6	8163.6	8163.6
2.5°	8260.8	8223.0	8158.2	8206.8	8244.6	8163.6	8196.0	8212.2	8201.4	8158.2	8174.4
5°	8379.7	8358.1	8304.0	8341.9	8293.2	8293.2	8260.8	8217.6	8282.4	8271.6	8298.6
7.5°	8379.7	8352.7	8460.7	8390.5	8412.1	8412.1	8358.1	8314.8	8347.3	8298.6	8271.6
10°	8547.2	8585.0	8536.4	8552.6	8541.8	8579.6	8498.5	8471.5	8444.5	8428.3	8395.9
12.5°	8747.1	8720.0	8736.3	8725.4	8763.3	8666.0	8617.4	8558.0	8606.6	8536.4	8585.0
15°	8909.1	8892.9	8909.1	8952.4	8914.5	8909.1	8822.7	8763.3	8687.6	8703.8	8628.2
17.5°	9130.7	9114.4	9119.8	9157.7	9152.3	9125.3	9060.4	8947.0	8919.9	8876.7	8828.1
20°	9460.2	9433.2	9422.4	9438.6	9465.6	9487.2	9357.6	9314.3	9222.5	9152.3	9071.2
22.5°	9741.2	9730.4	9773.6	9703.3	9762.8	9827.6	9703.3	9681.7	9454.8	9417.0	9330.6
25°	10130.2	10114.0	10086.9	10189.6	10259.8	10254.4	10135.6	10016.7	9843.8	9800.6	9800.6
27.5°	10540.8	10448.9	10589.4	10616.4	10740.7	10778.5	10675.8	10503.0	10340.9	10249.0	10270.6
30°	11054.0	10967.6	11000.0	11194.5	11356.6	11497.1	11237.7	10983.8	10756.9	10594.8	10567.8
32.5°	11567.3	11480.9	11578.1	11767.2	12091.4	12302.1	12048.1	11605.1	11340.4	11102.7	11151.3
35°	11983.3	12048.1	12204.8	12491.2	12826.1	13166.5	12761.3	12420.9	12042.7	11778.0	11815.8
37.5°	12653.3	12853.2	12977.4	13307.0	13782.4	14133.6	13712.2	13269.2	12864.0	12518.2	12399.3
40°	13528.5	13663.6	13804.0	14193.0	14754.9	15106.1	14706.3	14128.2	13728.4	13371.8	13355.6
42.5°	14490.2	14619.9	14765.7	15241.2	15576.1	15840.9	15473.5	15165.5	14722.5	14441.6	14425.4
45°	15608.6	15516.7	15678.8	15992.2	16273.1	16446.0	16208.3	16057.0	15738.2	15478.9	15451.9
47.5°	16354.1	16273.1	16564.8	16845.8	16889.0	16699.9	16748.5	16889.0	16554.0	16127.2	16262.3
50°	16786.4	16786.4	16980.9	17240.2	17159.1	16916.0	17299.6	17310.4	16975.5	16597.3	16597.3
52.5°	16035.4	16202.9	16753.9	17602.2	17872.3	17942.5	17856.1	17488.7	16613.5	15840.9	15803.1
55°	13971.5	13933.7	14679.3	16624.3	18196.5	19028.5	17926.3	16235.3	14457.8	13587.9	13501.5
57.5°	9087.4	9130.7	10243.6	12226.4	15062.9	16613.5	14754.9	12377.7	10243.6	9044.2	9157.7
60°	4089.9	4235.8	4911.1	6391.5	8828.1	10092.3	8849.7	6715.6	5154.2	4473.5	4532.9
62.5°	2350.2	2377.2	2404.2	2852.7	3760.3	4446.5	3906.2	3014.7	2658.2	2539.3	2539.3
65°	1982.8	1966.6	1972.0	2009.8	2107.1	2247.5	2188.1	2107.1	2117.9	2107.1	2090.9
67.5°	1685.7	1707.3	1691.1	1718.1	1723.5	1745.1	1782.9	1815.3	1820.7	1831.5	1820.7
70°	1383.1	1388.5	1399.3	1420.9	1426.3	1442.5	1496.6	1523.6	1539.8	1539.8	1561.4
72.5°	1058.9	1053.5	1064.3	1086.0	1113.0	1118.4	1167.0	1204.8	1226.4	1199.4	1204.8
75°	697.0	702.4	718.6	734.8	772.6	810.4	826.6	864.4	869.8	880.6	853.6
77.5°	416.0	426.8	443.0	475.4	507.9	540.3	578.1	605.1	615.9	605.1	572.7
80°	270.1	270.1	291.7	318.8	356.6	383.6	405.2	426.8	443.0	426.8	416.0
82.5°	167.5	167.5	194.5	226.9	253.9	270.1	302.6	329.6	345.8	335.0	318.8
85°	86.4	91.8	113.5	140.5	162.1	172.9	167.5	151.3	135.1	129.7	118.9
87.5°	27.0	27.0	32.4	32.4	27.0	27.0	32.4	27.0	32.4	32.4	32.4
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)