

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: P533006

Luminaire Tested: **GALN-SA8B-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533006
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-SA8B-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 32228 lumens
Efficiency: N/A
Efficacy: 99.2 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): 325
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

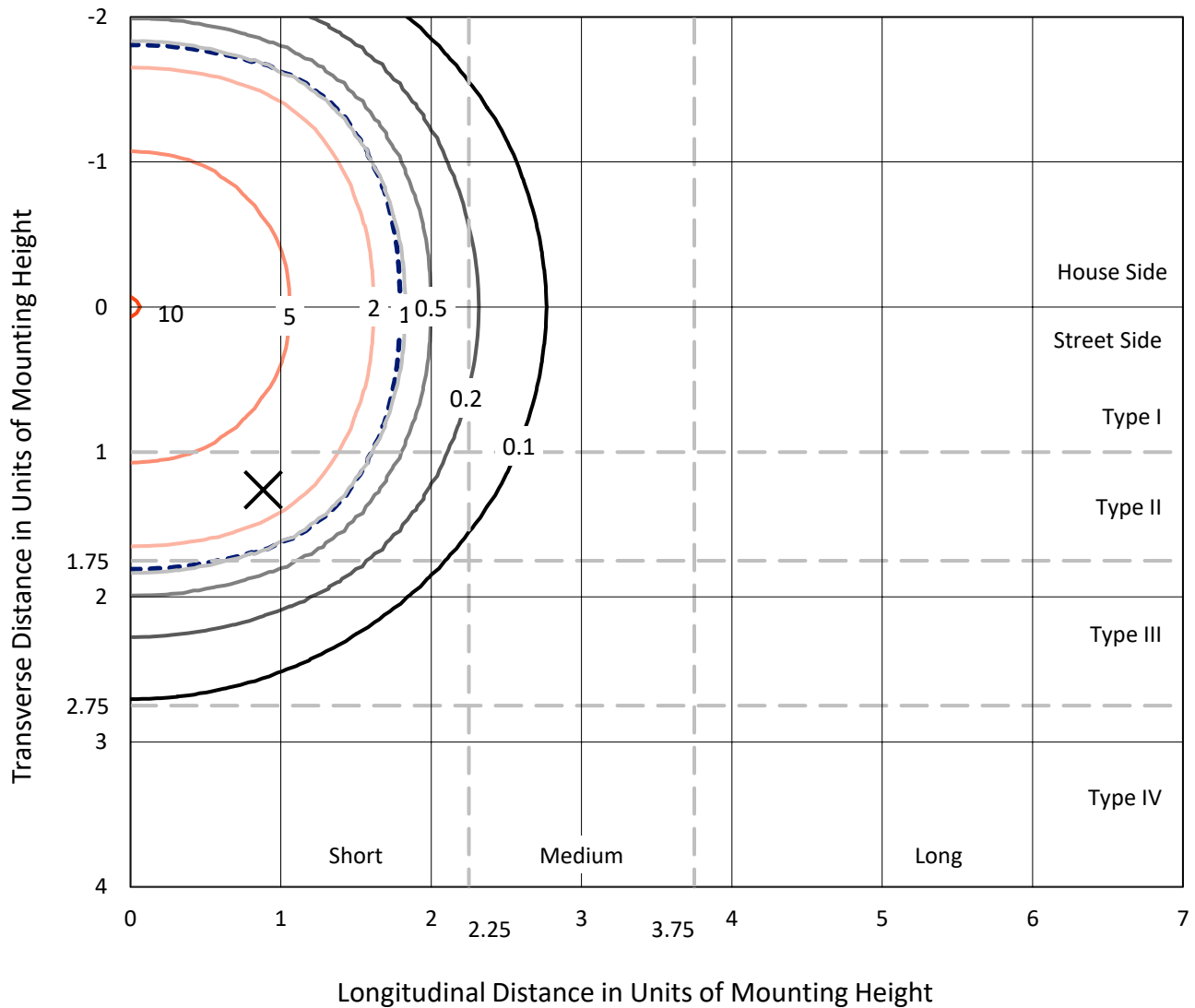


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Iso-Footcandle Lines of Horizontal Illumination

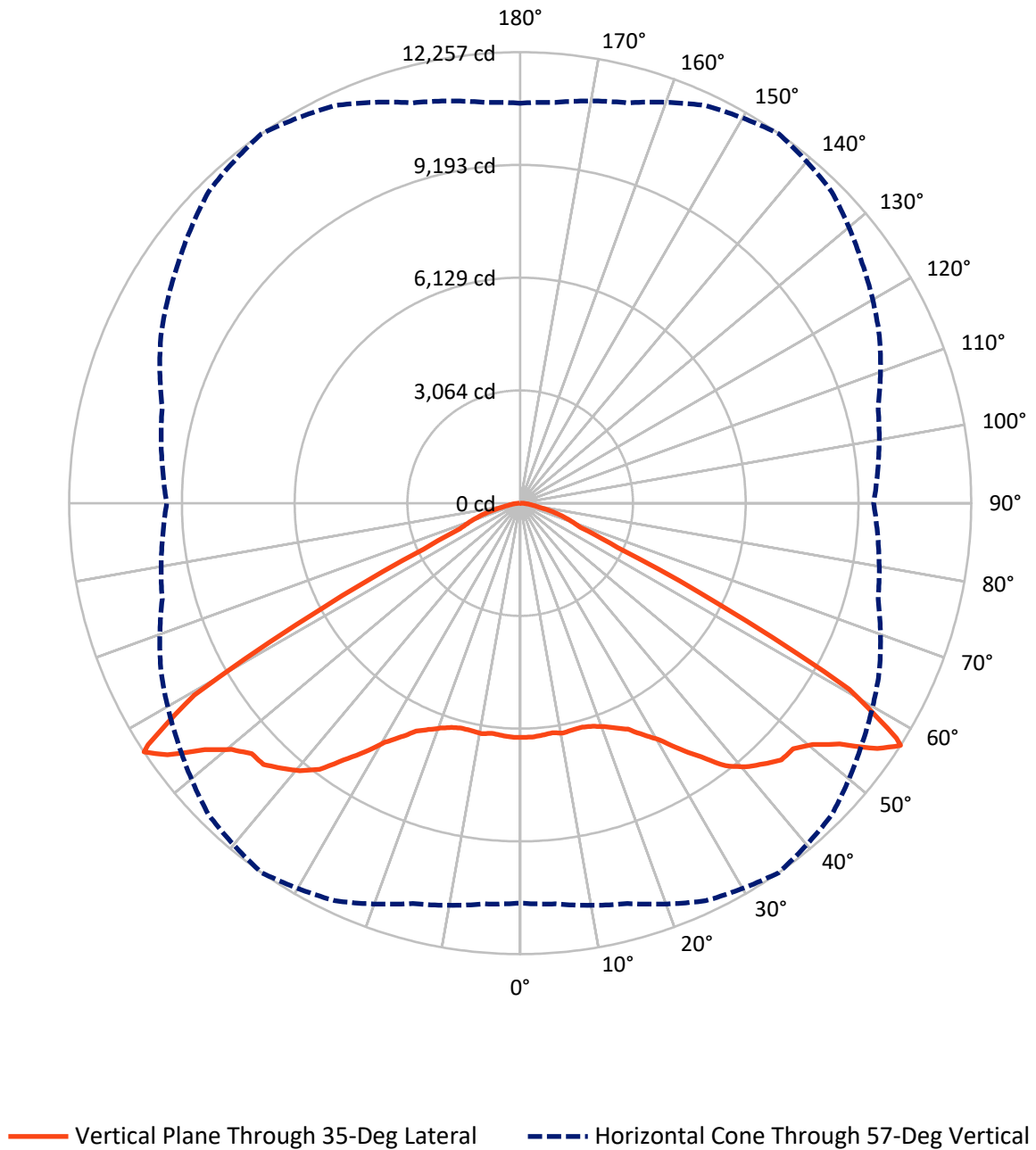
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	16114.0	0.0	16114.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16114.0	0.0	16114.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32228.0	0.0	32228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.4	1.9
10°-20°	1787.1	5.5
20°-30°	3121.2	9.7
30°-40°	5114.1	15.9
40°-50°	7498.5	23.3
50°-60°	9445.0	29.3
60°-70°	3552.2	11.0
70°-80°	944.5	2.9
80°-90°	162.0	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°	32228.0	100.0
0°-180°	32228.0	100.0

Coefficient of Utilization



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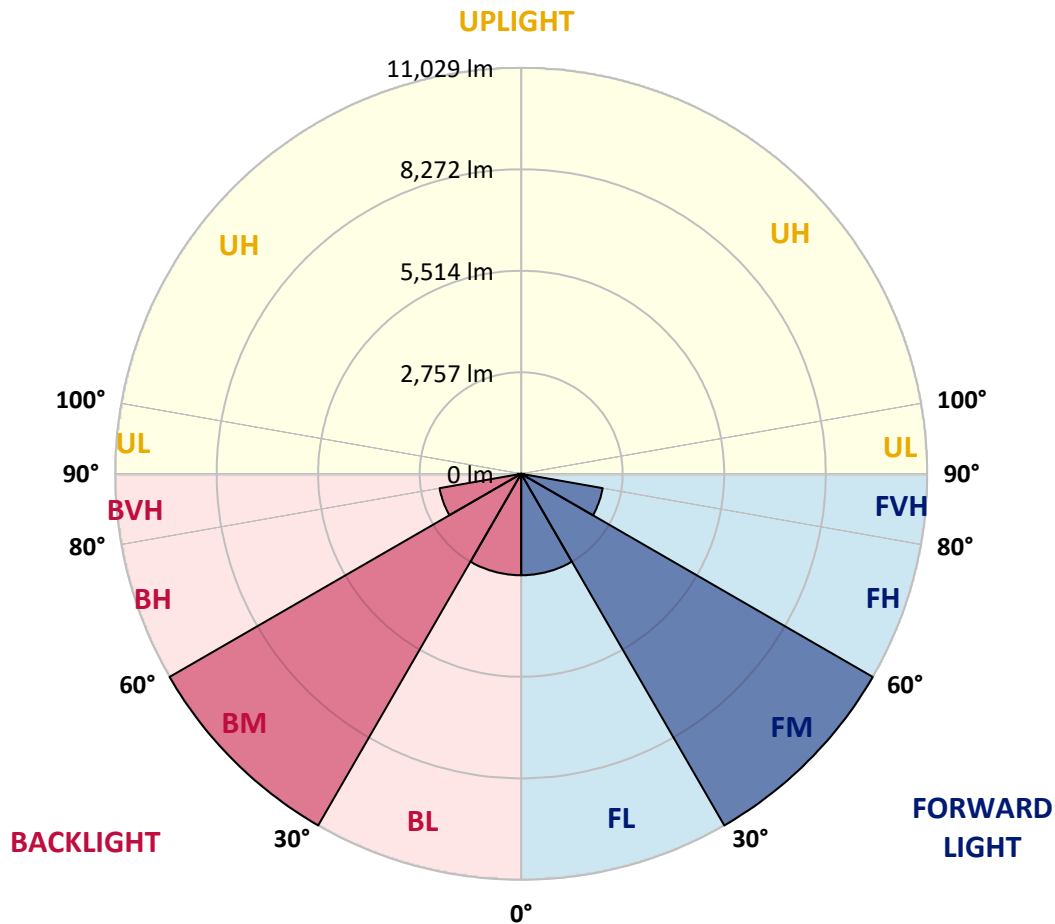
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2755.8	8.6			
FM	(30°-60°)	11028.8	34.2			
FH	(60°-80°)	2248.3	7.0			G2/5000
FVH	(80°-90°)	81.0	0.3			G1/100
BL	(0°-30°)	2755.8	8.6	B4/5000		
BM	(30°-60°)	11028.8	34.2	B5		
BH	(60°-80°)	2248.3	7.0	B3/2500		G2/5000
BVH	(80°-90°)	81.0	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°	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8
2.5°	6333.0	6396.6	6368.8	6352.9	6364.8	6344.9	6313.2	6348.9	6341.0	6309.2	6297.3
5°	6317.1	6364.8	6333.0	6364.8	6333.0	6388.6	6372.7	6313.2	6384.6	6317.1	6341.0
7.5°	6305.2	6321.1	6329.1	6313.2	6301.3	6368.8	6333.0	6305.2	6265.5	6253.6	6273.5
10°	6277.4	6317.1	6257.6	6337.0	6352.9	6305.2	6305.2	6253.6	6221.9	6202.0	6269.5
12.5°	6348.9	6281.4	6273.5	6313.2	6325.1	6344.9	6289.4	6261.6	6202.0	6209.9	6198.0
15°	6265.5	6293.3	6297.3	6305.2	6317.1	6364.8	6313.2	6253.6	6229.8	6146.4	6154.4
17.5°	6297.3	6269.5	6297.3	6388.6	6372.7	6408.5	6352.9	6261.6	6206.0	6158.3	6221.9
20°	6352.9	6341.0	6352.9	6464.1	6483.9	6515.7	6468.0	6384.6	6277.4	6221.9	6253.6
22.5°	6412.4	6404.5	6412.4	6519.6	6634.8	6674.5	6626.8	6432.3	6376.7	6273.5	6237.7
25°	6519.6	6527.6	6611.0	6730.1	6805.5	6881.0	6793.6	6654.6	6476.0	6412.4	6337.0
27.5°	6757.9	6777.7	6825.4	7000.1	7131.1	7198.6	7075.5	6884.9	6773.8	6642.7	6622.9
30°	7051.7	7051.7	7135.1	7286.0	7464.6	7567.9	7417.0	7190.7	7055.7	6984.2	6940.5
32.5°	7440.8	7397.1	7428.9	7694.9	7972.9	8060.2	7857.7	7579.8	7365.4	7270.1	7238.3
35°	7774.3	7802.1	7873.6	8159.5	8469.2	8671.7	8354.0	7992.7	7774.3	7687.0	7671.1
37.5°	8207.1	8254.8	8290.5	8683.6	9056.8	9132.3	8826.5	8536.7	8270.7	8199.2	8159.5
40°	8818.6	8786.8	8798.7	9088.6	9426.1	9473.7	9172.0	8965.5	8747.1	8703.4	8703.4
42.5°	9322.9	9287.1	9326.8	9434.0	9692.1	9656.4	9489.6	9338.7	9247.4	9199.8	9247.4
45°	9628.6	9620.6	9692.1	9771.5	9954.2	9835.1	9704.0	9727.8	9640.5	9561.1	9557.1
47.5°	9962.1	9910.5	9997.8	10117.0	9978.0	9922.4	9914.5	9966.1	9938.3	9799.3	9755.6
50°	10124.9	10105.1	10244.0	10383.0	10307.5	10180.5	10208.3	10291.7	9934.3	9747.7	9640.5
52.5°	10561.7	10565.6	10831.7	10907.1	10875.3	10688.7	10748.3	10522.0	10101.1	9839.0	9850.9
55°	11248.6	11220.8	11518.6	11740.9	11776.7	11538.4	11252.5	10934.9	10406.8	10140.8	10061.4
57°	10871.4	10934.9	11264.5	11923.6	12257.1	11975.2	11351.8	10772.1	10069.3	9747.7	9604.8
57.5°	10367.1	10470.3	11042.1	11705.2	12054.6	12030.8	11228.7	10470.3	9843.0	9342.7	9354.6
60°	7595.7	7615.5	8131.7	9183.9	10275.8	10299.6	9322.9	8318.3	7619.5	7075.5	7151.0
62.5°	4006.3	4097.6	4304.1	5149.8	6094.8	6325.1	5733.5	5217.3	4613.8	4200.8	4240.5
65°	2120.3	2108.4	2207.6	2445.9	2910.4	3029.5	2950.1	2541.2	2330.7	2263.2	2267.2
67.5°	1723.2	1743.1	1731.2	1743.1	1774.8	1826.5	1814.5	1830.4	1842.3	1862.2	1858.2
70°	1461.2	1461.2	1469.1	1473.1	1473.1	1496.9	1524.7	1576.3	1580.3	1600.1	1608.1
72.5°	1151.5	1143.5	1155.4	1183.2	1187.2	1207.0	1246.8	1278.5	1290.4	1290.4	1266.6
75°	782.2	790.1	806.0	829.8	853.7	889.4	921.2	941.0	949.0	937.0	925.1
77.5°	440.7	448.7	460.6	496.3	524.1	555.9	591.6	611.5	631.3	635.3	611.5
80°	262.1	262.1	281.9	309.7	341.5	373.2	405.0	428.8	436.8	436.8	424.8
82.5°	158.8	162.8	178.7	206.5	234.3	254.1	281.9	301.8	317.6	313.7	305.7
85°	83.4	83.4	99.3	123.1	142.9	162.8	162.8	150.9	142.9	123.1	115.1
87.5°	27.8	23.8	31.8	31.8	27.8	31.8	31.8	35.7	35.7	35.7	35.7
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)