

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: P533710

Luminaire Tested: **GALN-SA9A-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533710
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-SA9A-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 29673 lumens
Efficiency: N/A
Efficacy: 108.3 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): 274
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

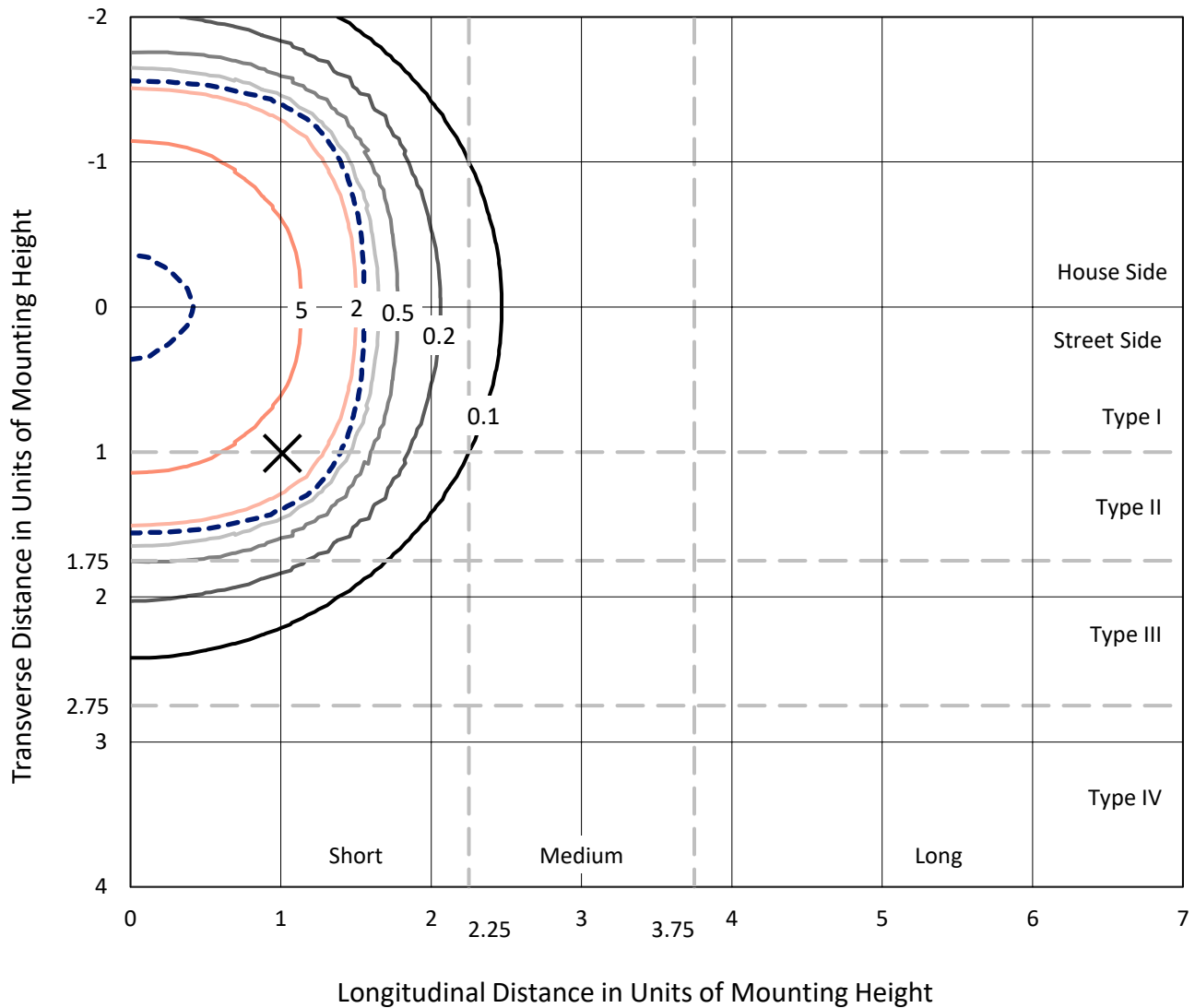


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Iso-Footcandle Lines of Horizontal Illumination

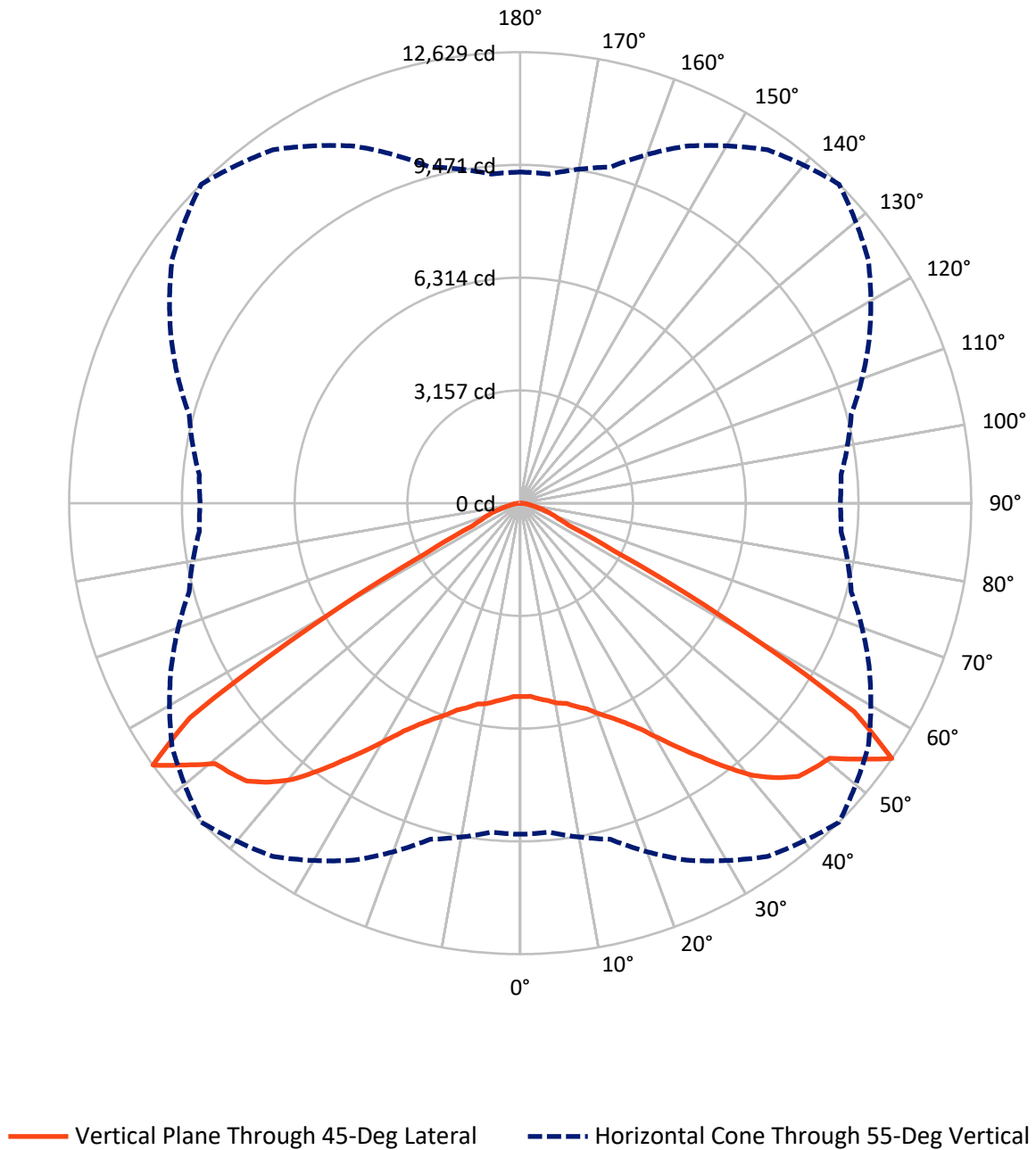
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	14836.5	0.0	14836.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14836.5	0.0	14836.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29673.0	0.0	29673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	1.8
10°-20°	1677.0	5.7
20°-30°	3127.1	10.5
30°-40°	5235.7	17.6
40°-50°	8147.2	27.5
50°-60°	8459.4	28.5
60°-70°	1794.0	6.0
70°-80°	590.8	2.0
80°-90°	112.5	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°	29673.0	100.0
0°-180°	29673.0	100.0

Coefficient of Utilization



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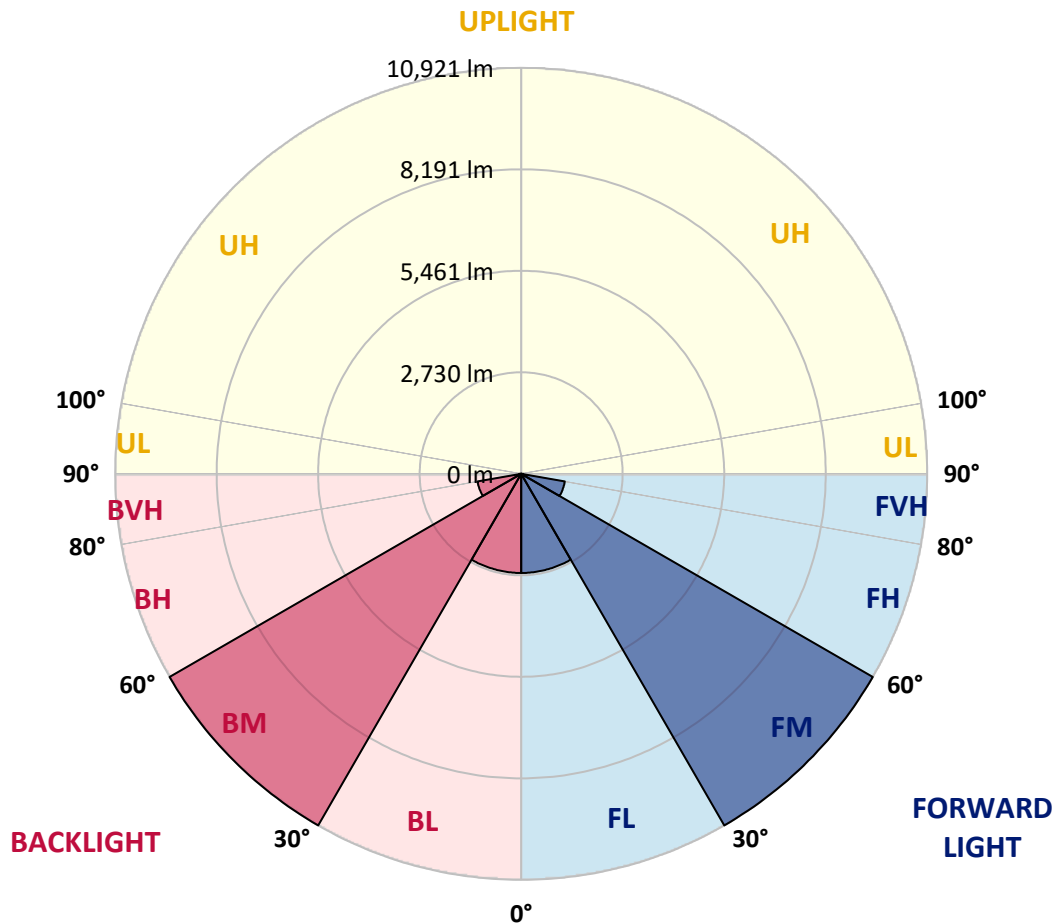
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2666.7	9.0			
FM	(30°-60°)	10921.2	36.8			
FH	(60°-80°)	1192.4	4.0			G1/1800
FVH	(80°-90°)	56.3	0.2			G1/100
BL	(0°-30°)	2666.7	9.0	B4/5000		
BM	(30°-60°)	10921.2	36.8	B5		
BH	(60°-80°)	1192.4	4.0	B3/2500		G1/1800
BVH	(80°-90°)	56.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5417.8	5417.8	5417.8	5417.8	5417.8	5417.8	5417.8	5417.8	5417.8	5417.8	5417.8
2.5°	5482.4	5457.3	5414.3	5446.5	5471.6	5417.8	5439.4	5450.1	5442.9	5414.3	5425.0
5°	5561.3	5546.9	5511.1	5536.2	5503.9	5503.9	5482.4	5453.7	5496.7	5489.6	5507.5
7.5°	5561.3	5543.3	5615.1	5568.4	5582.8	5582.8	5546.9	5518.2	5539.8	5507.5	5489.6
10°	5672.4	5697.5	5665.3	5676.0	5668.8	5693.9	5640.2	5622.2	5604.3	5593.5	5572.0
12.5°	5805.1	5787.2	5797.9	5790.8	5815.8	5751.3	5719.0	5679.6	5711.9	5665.3	5697.5
15°	5912.7	5901.9	5912.7	5941.3	5916.2	5912.7	5855.3	5815.8	5765.7	5776.4	5726.2
17.5°	6059.7	6048.9	6052.5	6077.6	6074.0	6056.1	6013.1	5937.8	5919.8	5891.1	5858.9
20°	6278.4	6260.5	6253.3	6264.0	6282.0	6296.3	6210.3	6181.6	6120.6	6074.0	6020.2
22.5°	6464.8	6457.7	6486.4	6439.7	6479.2	6522.2	6439.7	6425.4	6274.8	6249.7	6192.3
25°	6723.0	6712.3	6694.3	6762.4	6809.1	6805.5	6726.6	6647.7	6533.0	6504.3	6504.3
27.5°	6995.5	6934.6	7027.8	7045.7	7128.2	7153.3	7085.2	6970.4	6862.8	6801.9	6816.2
30°	7336.1	7278.8	7300.3	7429.4	7536.9	7630.2	7458.1	7289.5	7138.9	7031.4	7013.4
32.5°	7676.8	7619.4	7683.9	7809.4	8024.6	8164.4	7995.9	7701.9	7526.2	7368.4	7400.7
35°	7952.9	7995.9	8099.9	8289.9	8512.2	8738.1	8469.2	8243.3	7992.3	7816.6	7841.7
37.5°	8397.5	8530.2	8612.6	8831.3	9146.9	9379.9	9100.3	8806.2	8537.3	8307.8	8229.0
40°	8978.4	9068.0	9161.2	9419.4	9792.3	10025.3	9760.0	9376.4	9111.0	8874.4	8863.6
42.5°	9616.6	9702.6	9799.5	10115.0	10337.3	10513.0	10269.2	10064.8	9770.8	9584.3	9573.6
45°	10358.8	10297.9	10405.4	10613.4	10799.8	10914.6	10756.8	10656.4	10444.9	10272.8	10254.8
47.5°	10853.6	10799.8	10993.5	11179.9	11208.6	11083.1	11115.4	11208.6	10986.3	10703.0	10792.7
50°	11140.5	11140.5	11269.6	11441.7	11387.9	11226.5	11481.1	11488.3	11266.0	11015.0	11015.0
52.5°	10642.1	10753.2	11119.0	11681.9	11861.2	11907.8	11850.4	11606.6	11025.7	10513.0	10487.9
55°	9272.4	9247.3	9742.1	11032.9	12076.3	12628.5	11897.0	10774.7	9595.1	9017.8	8960.4
57.5°	6031.0	6059.7	6798.3	8114.2	9996.7	11025.7	9792.3	8214.6	6798.3	6002.3	6077.6
60°	2714.3	2811.1	3259.3	4241.8	5858.9	6697.9	5873.2	4456.9	3420.7	2968.9	3008.3
62.5°	1559.7	1577.7	1595.6	1893.2	2495.6	2951.0	2592.4	2000.8	1764.1	1685.2	1685.2
65°	1315.9	1305.2	1308.7	1333.8	1398.4	1491.6	1452.2	1398.4	1405.6	1398.4	1387.6
67.5°	1118.7	1133.1	1122.3	1140.2	1143.8	1158.2	1183.2	1204.8	1208.3	1215.5	1208.3
70°	917.9	921.5	928.7	943.0	946.6	957.4	993.2	1011.1	1021.9	1021.9	1036.2
72.5°	702.8	699.2	706.4	720.7	738.6	742.2	774.5	799.6	813.9	796.0	799.6
75°	462.5	466.1	476.9	487.6	512.7	537.8	548.6	573.7	577.3	584.5	566.5
77.5°	276.1	283.3	294.0	315.5	337.0	358.6	383.7	401.6	408.8	401.6	380.1
80°	179.3	179.3	193.6	211.6	236.6	254.6	268.9	283.3	294.0	283.3	276.1
82.5°	111.2	111.2	129.1	150.6	168.5	179.3	200.8	218.7	229.5	222.3	211.6
85°	57.4	61.0	75.3	93.2	107.6	114.7	111.2	100.4	89.6	86.1	78.9
87.5°	17.9	17.9	21.5	21.5	17.9	17.9	21.5	17.9	21.5	21.5	21.5
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)