

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: P533944

Luminaire Tested: **GALN-SA9B-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533944
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-SA9B-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 36922 lumens
Efficiency: N/A
Efficacy: 101.4 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): 364
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



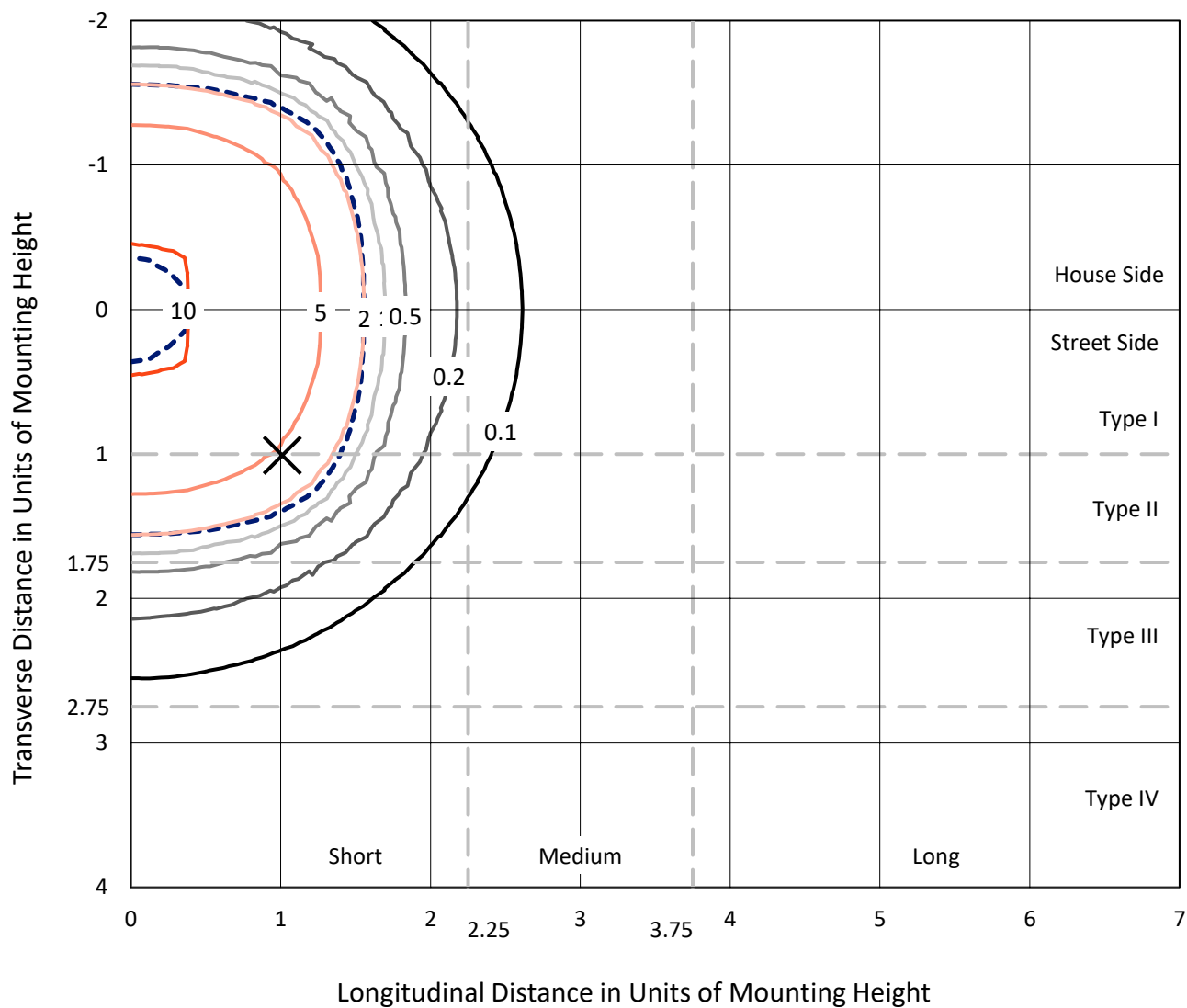
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

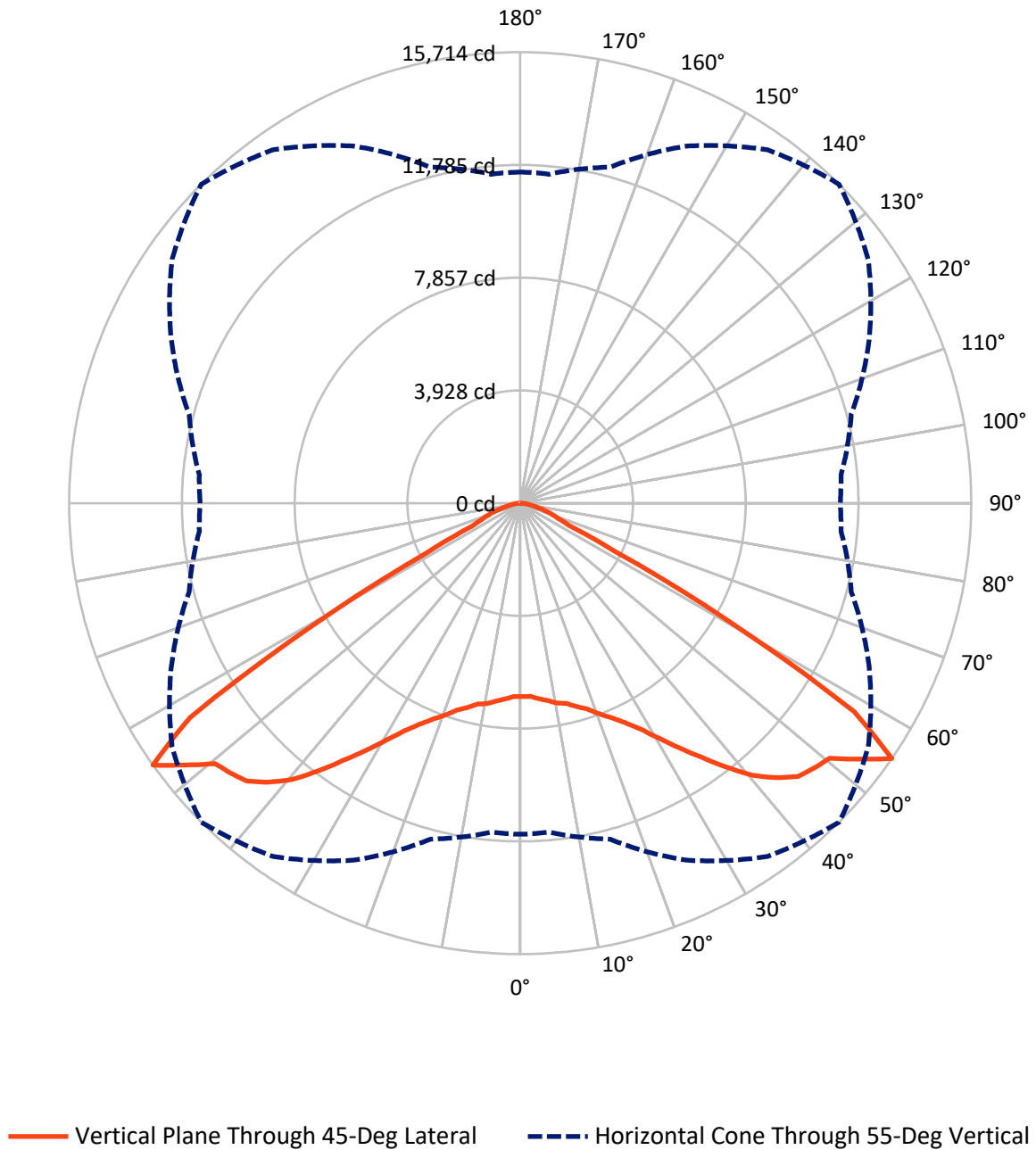
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	18461.0	0.0	18461.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18461.0	0.0	18461.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36922.0	0.0	36922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.6	1.8
10°-20°	2086.7	5.7
20°-30°	3891.0	10.5
30°-40°	6514.8	17.6
40°-50°	10137.6	27.5
50°-60°	10526.0	28.5
60°-70°	2232.2	6.0
70°-80°	735.1	2.0
80°-90°	140.0	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°	36922.0	100.0
0°-180°	36922.0	100.0

Coefficient of Utilization



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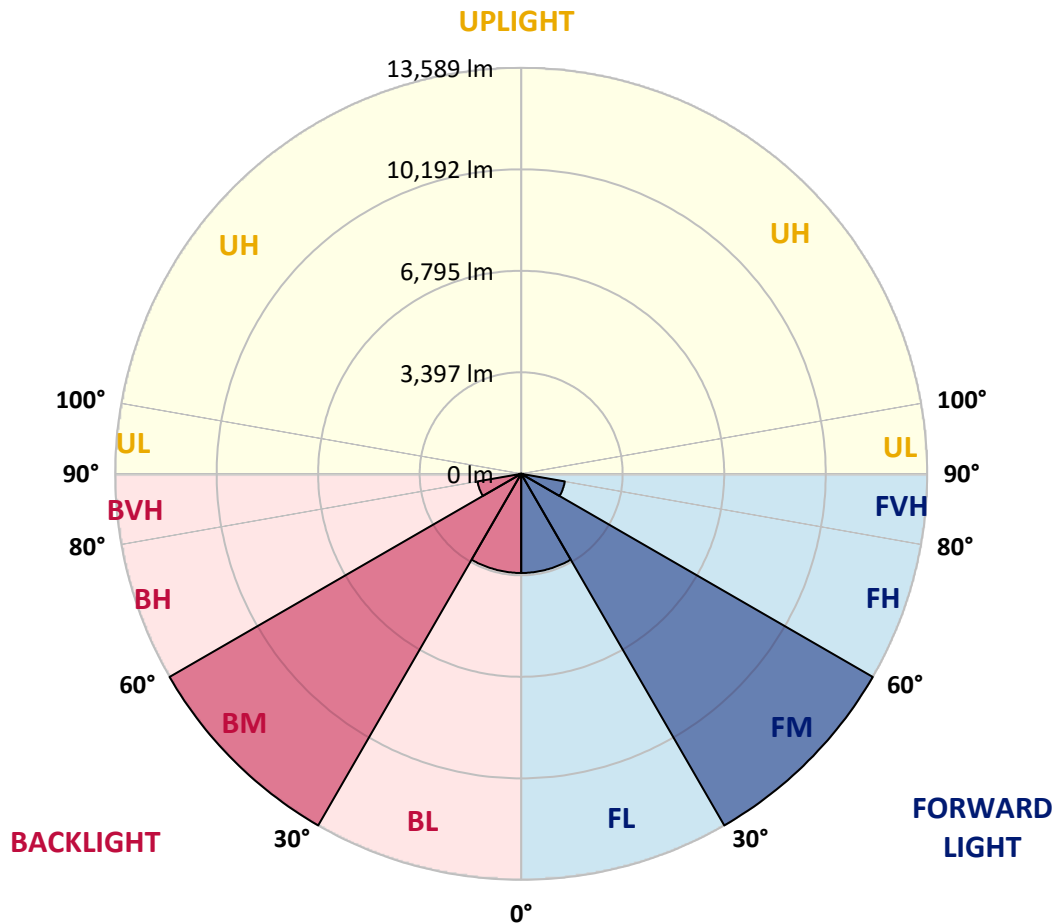
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3318.1	9.0			
FM	(30°-60°)	13589.2	36.8			
FH	(60°-80°)	1483.7	4.0			G1/1800
FVH	(80°-90°)	70.0	0.2			G1/100
BL	(0°-30°)	3318.1	9.0	B4/5000		
BM	(30°-60°)	13589.2	36.8	B5		
BH	(60°-80°)	1483.7	4.0	B3/2500		G1/1800
BVH	(80°-90°)	70.0	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°	6741.4	6741.4	6741.4	6741.4	6741.4	6741.4	6741.4	6741.4	6741.4	6741.4	6741.4
2.5°	6821.7	6790.5	6736.9	6777.1	6808.3	6741.4	6768.2	6781.6	6772.6	6736.9	6750.3
5°	6919.9	6902.0	6857.4	6888.6	6848.5	6848.5	6821.7	6786.0	6839.6	6830.6	6852.9
7.5°	6919.9	6897.6	6986.8	6928.8	6946.6	6946.6	6902.0	6866.3	6893.1	6852.9	6830.6
10°	7058.2	7089.4	7049.3	7062.6	7053.7	7084.9	7018.0	6995.7	6973.4	6960.0	6933.3
12.5°	7223.3	7200.9	7214.3	7205.4	7236.6	7156.3	7116.2	7067.1	7107.3	7049.3	7089.4
15°	7357.1	7343.7	7357.1	7392.8	7361.6	7357.1	7285.7	7236.6	7174.2	7187.6	7125.1
17.5°	7540.0	7526.6	7531.1	7562.3	7557.9	7535.6	7482.0	7388.3	7366.0	7330.3	7290.2
20°	7812.2	7789.9	7780.9	7794.3	7816.6	7834.5	7727.4	7691.7	7615.9	7557.9	7490.9
22.5°	8044.2	8035.3	8070.9	8012.9	8062.0	8115.6	8012.9	7995.1	7807.7	7776.5	7705.1
25°	8365.4	8352.0	8329.7	8414.5	8472.5	8468.0	8369.9	8271.7	8128.9	8093.3	8093.3
27.5°	8704.5	8628.6	8744.6	8767.0	8869.6	8900.8	8816.0	8673.3	8539.4	8463.6	8481.4
30°	9128.3	9057.0	9083.7	9244.3	9378.2	9494.2	9280.0	9070.3	8883.0	8749.1	8726.8
32.5°	9552.2	9480.8	9561.1	9717.3	9985.0	10159.0	9949.3	9583.4	9364.8	9168.5	9208.6
35°	9895.7	9949.3	10078.6	10315.1	10591.7	10872.8	10538.2	10257.1	9944.8	9726.2	9757.4
37.5°	10449.0	10614.0	10716.7	10988.8	11381.4	11671.4	11323.4	10957.6	10623.0	10337.4	10239.3
40°	11171.7	11283.3	11399.3	11720.5	12184.5	12474.5	12144.3	11667.0	11336.8	11042.3	11029.0
42.5°	11965.9	12073.0	12193.4	12586.0	12862.7	13081.3	12777.9	12523.6	12157.7	11925.7	11912.3
45°	12889.4	12813.6	12947.4	13206.2	13438.2	13581.0	13384.7	13259.7	12996.5	12782.3	12760.0
47.5°	13505.1	13438.2	13679.1	13911.1	13946.8	13790.7	13830.8	13946.8	13670.2	13317.7	13429.3
50°	13862.0	13862.0	14022.7	14236.8	14169.9	13969.1	14285.9	14294.8	14018.2	13705.9	13705.9
52.5°	13241.9	13380.2	13835.3	14535.7	14758.8	14816.8	14745.4	14442.0	13719.3	13081.3	13050.0
55°	11537.6	11506.3	12122.0	13728.2	15026.5	15713.6	14803.4	13407.0	11939.1	11220.8	11149.4
57.5°	7504.3	7540.0	8459.1	10096.5	12438.8	13719.3	12184.5	10221.4	8459.1	7468.6	7562.3
60°	3377.4	3497.9	4055.6	5278.0	7290.2	8334.2	7308.0	5545.7	4256.3	3694.2	3743.2
62.5°	1940.8	1963.1	1985.4	2355.7	3105.2	3671.9	3225.7	2489.5	2195.1	2096.9	2096.9
65°	1637.4	1624.0	1628.5	1659.7	1740.0	1856.0	1806.9	1740.0	1748.9	1740.0	1726.6
67.5°	1392.0	1409.9	1396.5	1418.8	1423.2	1441.1	1472.3	1499.1	1503.5	1512.5	1503.5
70°	1142.2	1146.6	1155.5	1173.4	1177.8	1191.2	1235.9	1258.2	1271.5	1271.5	1289.4
72.5°	874.5	870.0	878.9	896.8	919.1	923.5	963.7	994.9	1012.8	990.5	994.9
75°	575.5	580.0	593.4	606.8	638.0	669.2	682.6	713.8	718.3	727.2	704.9
77.5°	343.5	352.5	365.8	392.6	419.4	446.2	477.4	499.7	508.6	499.7	472.9
80°	223.1	223.1	240.9	263.2	294.5	316.8	334.6	352.5	365.8	352.5	343.5
82.5°	138.3	138.3	160.6	187.4	209.7	223.1	249.8	272.2	285.5	276.6	263.2
85°	71.4	75.8	93.7	116.0	133.8	142.8	138.3	124.9	111.5	107.1	98.2
87.5°	22.3	22.3	26.8	26.8	22.3	22.3	26.8	22.3	26.8	26.8	26.8
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)