

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: P534414

Luminaire Tested: **GALN-SA9D-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47279 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 552
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



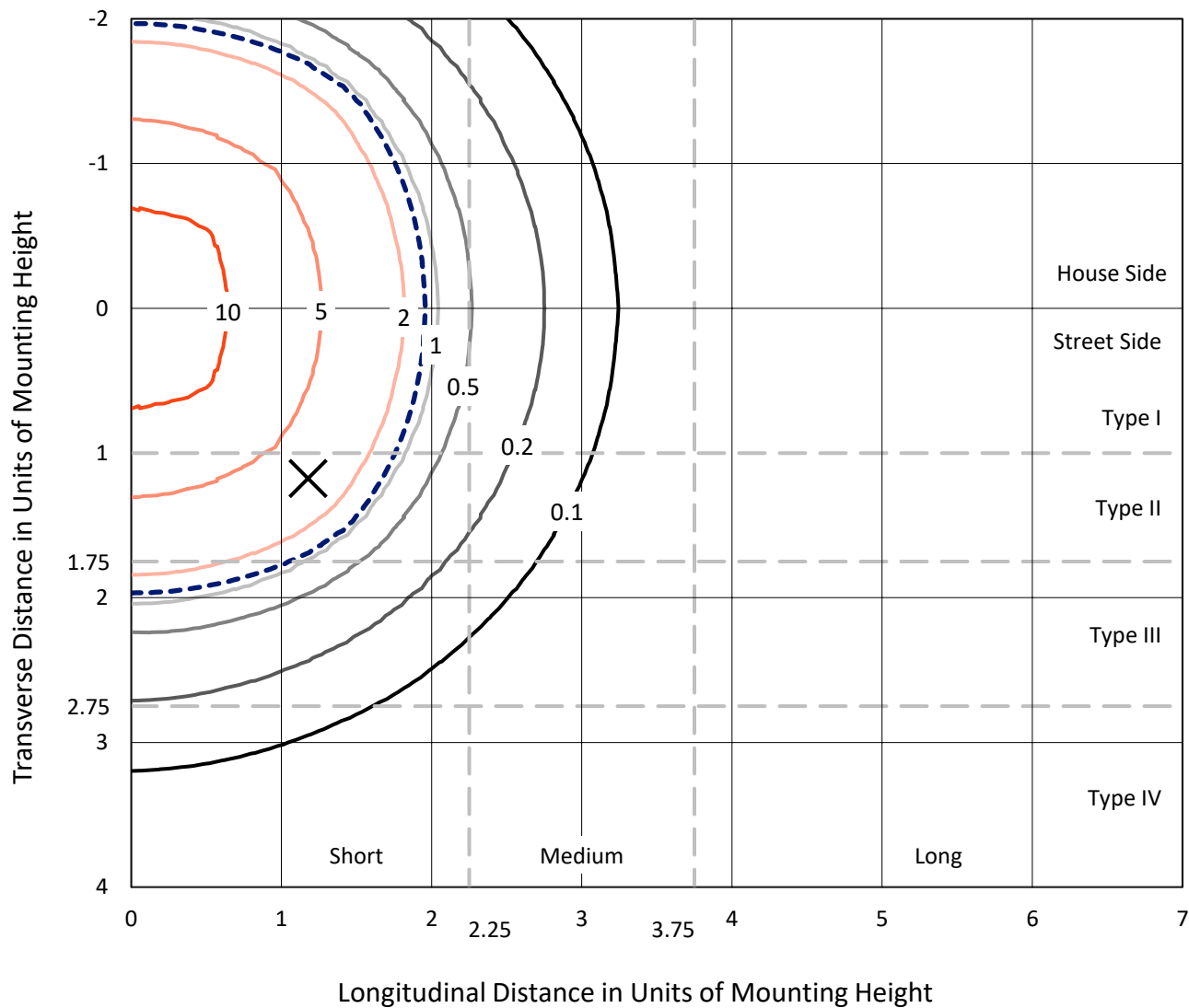
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

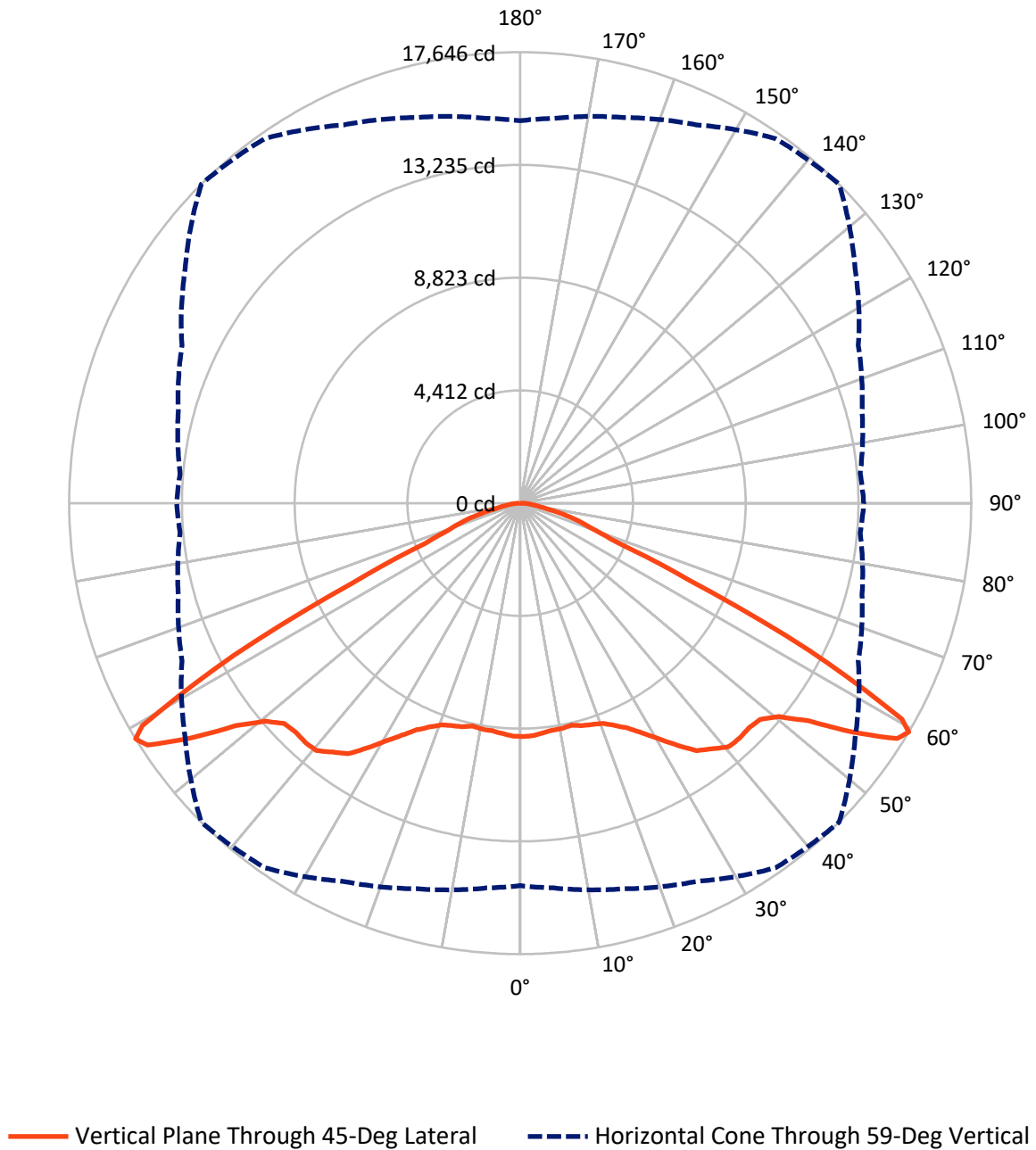


Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23639.5	0.0	23639.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23639.5	0.0	23639.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47279.0	0.0	47279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.9	1.8
10°-20°	2560.0	5.4
20°-30°	4470.1	9.5
30°-40°	7139.4	15.1
40°-50°	9725.3	20.6
50°-60°	13151.3	27.8
60°-70°	7212.2	15.3
70°-80°	1845.1	3.9
80°-90°	314.7	0.7
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°	47279.0	100.0
0°-180°	47279.0	100.0

Coefficient of Utilization



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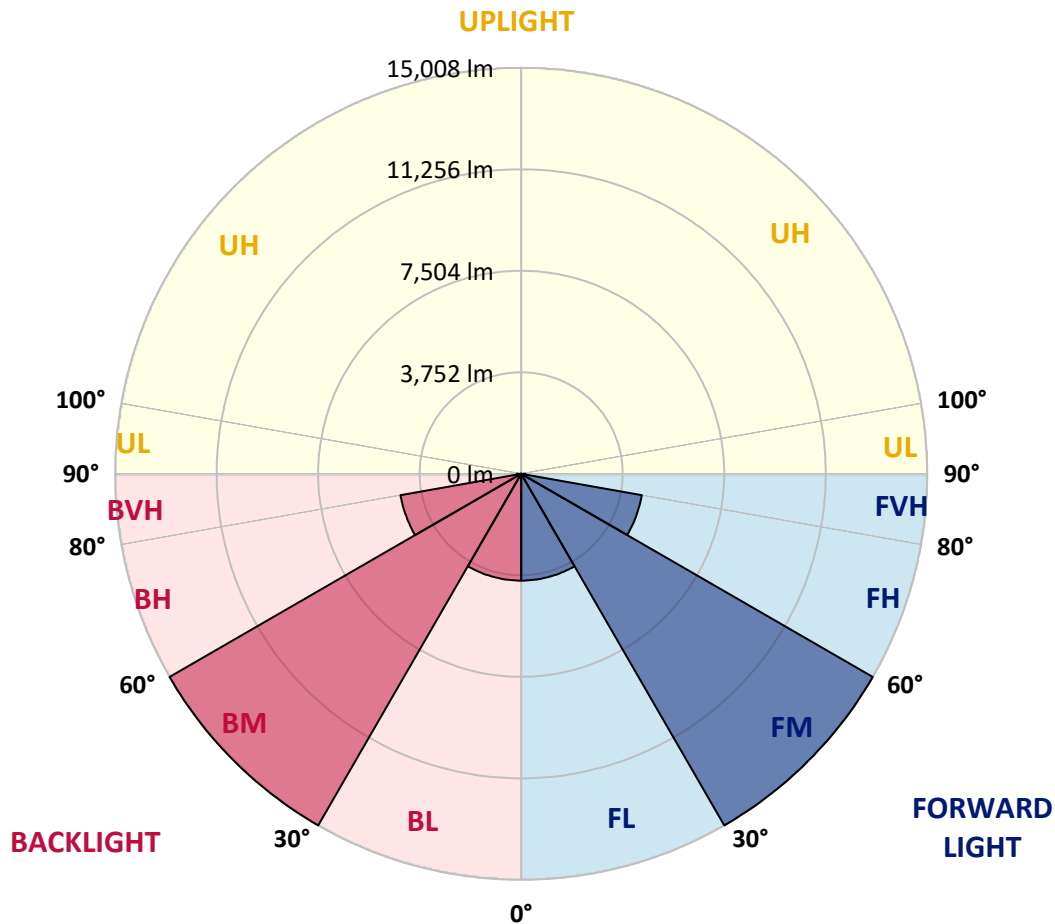
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3945.5	8.3			
FM	(30°-60°)	15008.0	31.7			
FH	(60°-80°)	4528.6	9.6			G2/5000
FVH	(80°-90°)	157.3	0.3			G2/225
BL	(0°-30°)	3945.5	8.3	B4/5000		
BM	(30°-60°)	15008.0	31.7	B5		
BH	(60°-80°)	4528.6	9.6	B4/5000		G2/5000
BVH	(80°-90°)	157.3	0.3			G2/225
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°	9132.0	9132.0	9132.0	9132.0	9132.0	9132.0	9132.0	9132.0	9132.0	9132.0	9132.0
2.5°	9077.5	9144.2	9095.7	9138.1	9132.0	9113.9	9083.6	9065.4	9041.1	9077.5	9016.9
5°	9041.1	9095.7	9150.2	9077.5	9077.5	9041.1	9023.0	8986.6	8986.6	8980.5	8974.5
7.5°	9101.7	9047.2	9023.0	9035.1	9047.2	8968.4	9023.0	8950.2	8889.7	8932.1	8980.5
10°	9047.2	9071.4	8980.5	9023.0	8956.3	8968.4	8932.1	8980.5	8913.9	8913.9	8913.9
12.5°	9101.7	9035.1	9065.4	9035.1	9016.9	8913.9	8962.4	8907.8	8901.8	8962.4	8907.8
15°	9210.8	9101.7	9077.5	9016.9	9035.1	9035.1	8986.6	8992.7	8926.0	8962.4	8974.5
17.5°	9174.5	9113.9	9095.7	9023.0	9083.6	9101.7	9010.8	8950.2	8992.7	8986.6	8980.5
20°	9204.8	9229.0	9210.8	9222.9	9247.2	9198.7	9113.9	9029.0	8974.5	9053.3	9047.2
22.5°	9398.7	9374.4	9362.3	9350.2	9392.6	9441.1	9326.0	9192.6	9192.6	9247.2	9271.4
25°	9556.2	9550.2	9544.1	9598.6	9744.1	9744.1	9598.6	9429.0	9386.6	9422.9	9392.6
27.5°	9786.5	9853.2	9828.9	9925.9	10138.0	10186.4	9992.5	9792.6	9677.4	9635.0	9689.5
30°	10313.7	10234.9	10253.1	10356.1	10544.0	10701.5	10404.6	10192.5	10034.9	10028.9	10053.1
32.5°	10665.2	10725.8	10780.3	10877.2	11174.2	11295.4	10937.8	10592.4	10495.5	10440.9	10459.1
35°	11368.1	11313.6	11301.4	11398.4	11695.3	11895.3	11446.9	11143.9	11016.6	11137.8	11137.8
37.5°	12034.7	11883.2	11768.0	11895.3	12168.0	12192.2	11810.5	11646.8	11580.2	11719.6	11713.5
40°	12349.8	12337.6	12071.0	12143.7	12507.3	12543.7	12186.2	11992.2	11980.1	12161.9	12343.7
42.5°	12677.0	12561.9	12295.2	12343.7	12567.9	12580.0	12240.7	12186.2	12319.5	12495.2	12507.3
45°	12731.5	12634.6	12464.9	12343.7	12507.3	12543.7	12343.7	12380.1	12392.2	12604.3	12604.3
47.5°	12840.6	12828.5	12731.5	12640.6	12670.9	12640.6	12513.4	12567.9	12749.7	12852.7	12804.2
50°	13143.6	13016.3	13113.3	13034.5	13040.6	13125.4	13010.3	13064.8	13028.5	12937.6	12877.0
52.5°	13810.2	13749.6	13834.4	13888.9	13949.5	14143.5	14010.1	13719.3	13446.6	13204.2	13198.1
55°	14785.8	14828.2	14991.8	15270.6	15506.9	15815.9	15173.6	14476.7	14040.4	13658.7	13682.9
57.5°	15706.9	15676.6	15900.8	16537.1	17227.9	17385.4	16125.0	15131.2	14422.2	14179.8	14076.8
59°	14967.6	15113.0	15622.0	16331.0	17415.7	17646.0	15997.7	14597.9	13846.5	13355.7	13440.5
60°	13804.1	13858.6	14313.1	15300.9	16767.3	17161.2	15143.3	13773.8	12774.0	12489.1	12616.4
62.5°	9756.2	9713.8	10041.0	10847.0	12161.9	12695.2	11259.0	10295.5	9665.3	9350.2	9422.9
65°	5187.1	5381.1	5514.4	6017.3	6714.2	7277.8	6683.9	6265.8	5914.3	5653.7	5647.7
67.5°	3502.5	3478.3	3508.6	3623.7	3860.1	4017.6	4005.5	3793.4	3763.1	3714.6	3769.2
70°	2951.1	2939.0	2884.4	2884.4	2932.9	2969.3	3011.7	3035.9	3084.4	3145.0	3139.0
72.5°	2393.6	2363.3	2326.9	2308.8	2369.4	2387.5	2442.1	2466.3	2508.7	2502.7	2557.2
75°	1581.6	1581.6	1624.0	1672.5	1690.7	1727.0	1733.1	1805.8	1805.8	1817.9	1769.4
77.5°	884.7	860.5	890.8	939.3	981.7	1048.3	1115.0	1169.5	1199.8	1187.7	1187.7
80°	515.1	515.1	545.4	599.9	654.5	715.1	763.5	805.9	836.2	824.1	799.9
82.5°	321.2	321.2	351.5	406.0	448.4	484.8	551.4	606.0	642.3	630.2	599.9
85°	163.6	163.6	200.0	236.3	290.9	315.1	309.0	284.8	278.7	248.4	248.4
87.5°	42.4	42.4	60.6	66.7	54.5	60.6	60.6	60.6	60.6	60.6	66.7
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)