

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: P529712

Luminaire Tested: **GALN-SA4D-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19713 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 245
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

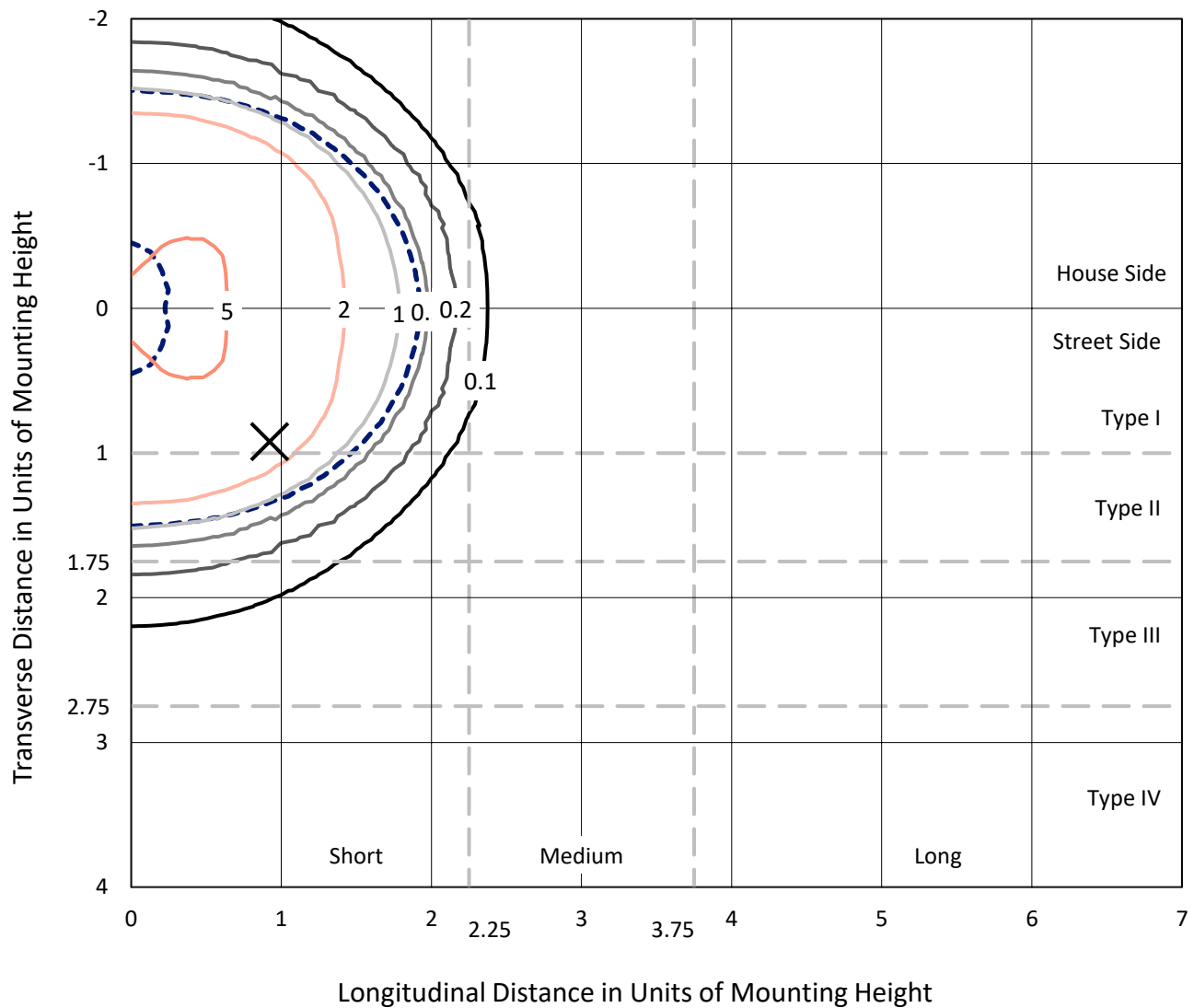


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Iso-Footcandle Lines of Horizontal Illumination

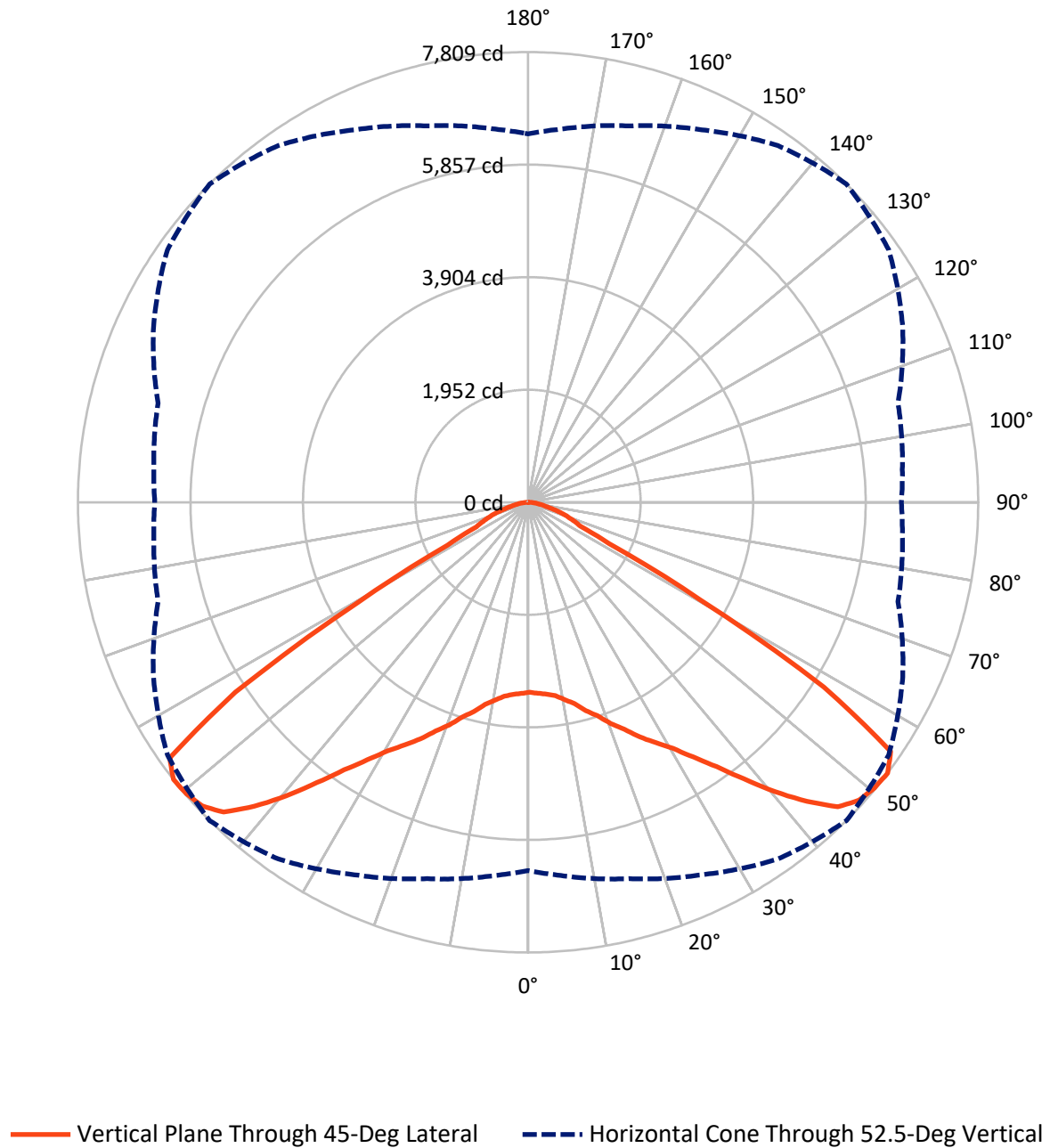
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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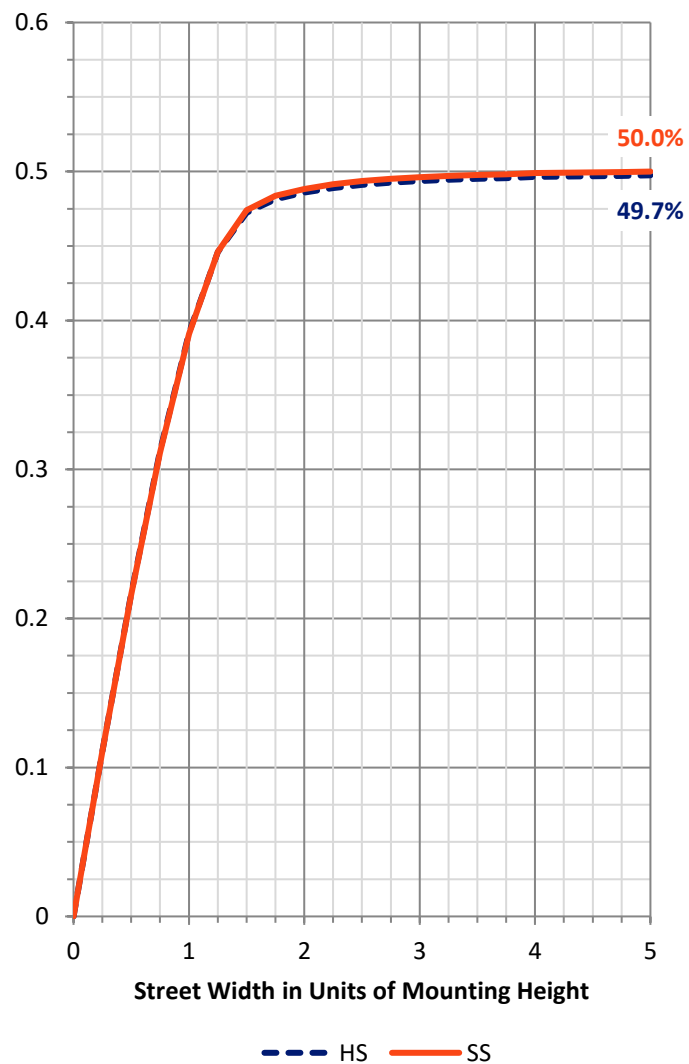
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9856.5	0.0	9856.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9856.5	0.0	9856.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19713.0	0.0	19713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.8	1.6
10°-20°	1063.8	5.4
20°-30°	2025.4	10.3
30°-40°	3477.7	17.6
40°-50°	5345.4	27.1
50°-60°	5428.1	27.5
60°-70°	1512.7	7.7
70°-80°	446.2	2.3
80°-90°	89.9	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°	19713.0	100.0
0°-180°	19713.0	100.0

Coefficient of Utilization



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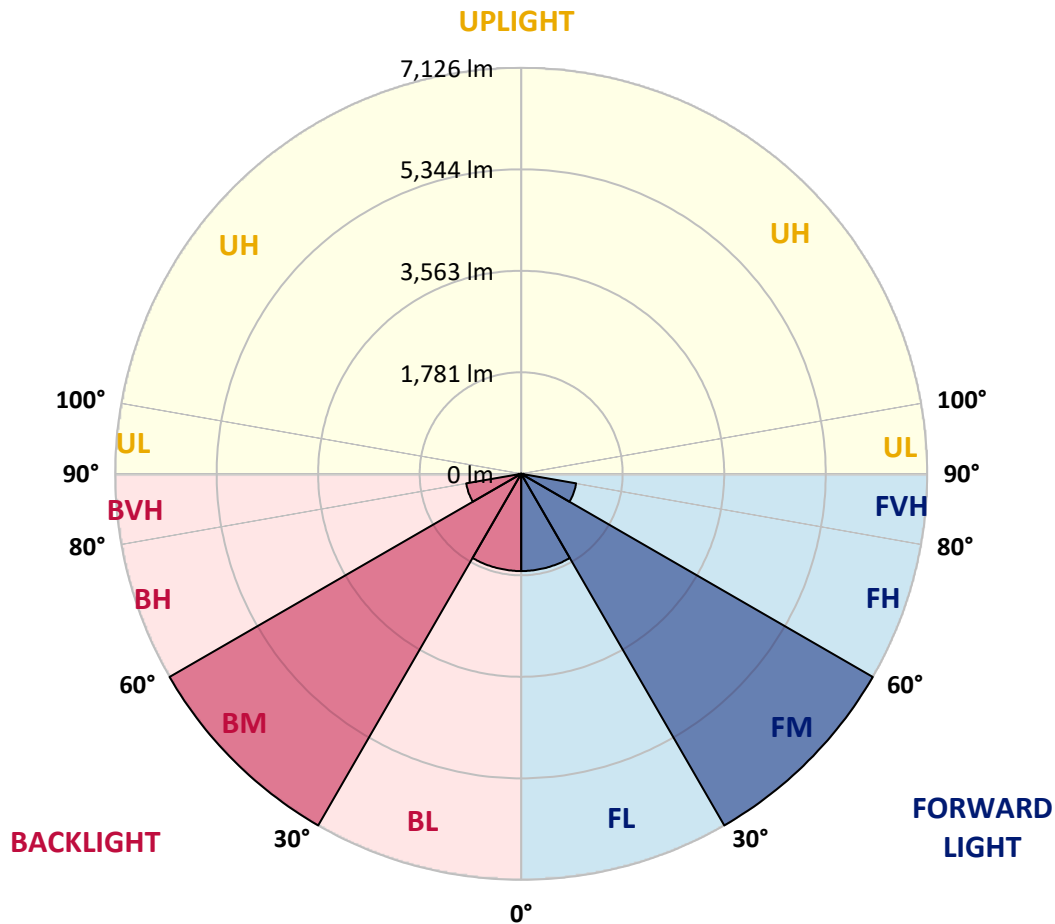
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1706.5	8.7			
FM	(30°-60°)	7125.6	36.1			
FH	(60°-80°)	979.5	5.0			G1/1800
FVH	(80°-90°)	44.9	0.2			G1/100
BL	(0°-30°)	1706.5	8.7	B3/2500		
BM	(30°-60°)	7125.6	36.1	B4/8500		
BH	(60°-80°)	979.5	5.0	B2/1000		G1/1800
BVH	(80°-90°)	44.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3295.3	3295.3	3295.3	3295.3	3295.3	3295.3	3295.3	3295.3	3295.3	3295.3	3295.3
2.5°	3302.6	3268.4	3280.6	3287.9	3319.8	3317.3	3310.0	3319.8	3329.5	3332.0	3327.1
5°	3300.2	3275.7	3285.5	3292.8	3324.6	3341.8	3336.9	3378.5	3407.8	3400.5	3437.2
7.5°	3280.6	3295.3	3283.1	3319.8	3346.7	3388.3	3432.3	3471.4	3508.1	3549.7	3557.1
10°	3324.6	3324.6	3346.7	3376.0	3447.0	3478.8	3542.4	3598.6	3669.6	3718.5	3698.9
12.5°	3371.1	3378.5	3378.5	3454.3	3513.0	3584.0	3642.7	3718.5	3818.8	3877.5	3906.9
15°	3417.6	3422.5	3447.0	3549.7	3637.8	3750.3	3804.1	3872.6	3928.9	4039.0	4041.4
17.5°	3459.2	3486.1	3559.5	3674.5	3784.6	3892.2	3977.8	4048.8	4097.7	4141.7	4132.0
20°	3615.8	3635.3	3711.2	3826.2	3990.1	4095.3	4124.6	4136.8	4168.6	4256.7	4229.8
22.5°	3767.4	3774.8	3845.7	4021.9	4136.8	4276.3	4308.1	4300.8	4313.0	4335.0	4374.1
25°	3924.0	3936.2	4034.1	4183.3	4344.8	4511.1	4538.1	4481.8	4464.7	4489.1	4491.6
27.5°	4124.6	4127.1	4251.8	4381.5	4565.0	4721.5	4763.1	4719.1	4638.4	4657.9	4689.7
30°	4379.0	4361.9	4486.7	4672.6	4865.9	4953.9	5024.9	5002.9	4914.8	4897.7	4870.8
32.5°	4672.6	4677.5	4790.0	4993.1	5120.3	5267.1	5342.9	5306.2	5250.0	5220.6	5237.7
35°	5086.0	5108.1	5183.9	5352.7	5558.2	5631.6	5751.5	5673.2	5526.4	5563.1	5594.9
37.5°	5426.1	5489.7	5631.6	5832.2	5954.5	6089.1	6133.1	6027.9	5920.3	5876.2	5981.4
40°	5947.2	5927.6	6084.2	6284.8	6465.8	6600.4	6544.1	6438.9	6172.2	6174.7	6204.0
42.5°	6394.9	6404.6	6524.5	6764.3	7011.4	7094.5	6915.9	6659.1	6363.1	6331.3	6394.9
45°	6771.6	6810.8	6879.2	7199.7	7441.9	7532.4	7202.2	6898.8	6502.5	6370.4	6475.6
47.5°	6906.2	6969.8	7119.0	7412.6	7652.3	7725.7	7461.5	7026.0	6632.2	6416.9	6473.1
50°	6925.7	6903.7	7148.4	7417.5	7627.8	7786.9	7554.5	7119.0	6600.4	6487.8	6470.7
52.5°	6390.0	6497.6	6759.4	7128.8	7554.5	7808.9	7637.6	7170.4	6644.4	6517.2	6475.6
55°	5171.7	5044.5	5521.5	6142.9	6925.7	7632.7	7608.3	7197.3	6671.3	6566.1	6509.8
57.5°	2886.7	2923.4	3192.5	3867.7	4878.1	6052.4	6764.3	6913.5	6659.1	6597.9	6627.3
60°	1335.7	1348.0	1462.9	1778.5	2404.8	3432.3	4369.3	5320.9	5758.8	5846.9	5846.9
62.5°	995.7	990.8	1020.1	1076.4	1208.5	1577.9	2106.3	2862.3	3464.1	3884.9	3995.0
65°	900.3	897.8	912.5	932.1	941.9	993.2	1110.7	1343.1	1538.8	1651.3	1631.7
67.5°	787.7	785.3	790.2	802.4	819.5	846.5	875.8	924.7	993.2	988.3	976.1
70°	636.1	636.1	643.4	653.2	672.8	704.6	738.8	773.1	831.8	844.0	841.6
72.5°	469.7	462.4	477.0	496.6	516.2	555.3	592.0	623.8	665.4	677.7	672.8
75°	298.5	303.4	313.1	335.2	369.4	396.3	435.5	462.4	489.3	499.1	501.5
77.5°	166.4	171.2	188.4	215.3	249.5	278.9	313.1	335.2	352.3	354.7	357.2
80°	100.3	102.7	119.9	144.3	173.7	205.5	232.4	254.4	269.1	261.8	259.3
82.5°	61.2	63.6	78.3	100.3	124.8	149.2	178.6	198.2	212.8	203.1	193.3
85°	31.8	34.2	46.5	61.2	80.7	93.0	93.0	83.2	80.7	75.8	73.4
87.5°	9.8	9.8	12.2	14.7	12.2	14.7	17.1	19.6	19.6	22.0	19.6
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)