

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: P529703

Luminaire Tested: **GALN-SA4D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13501 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

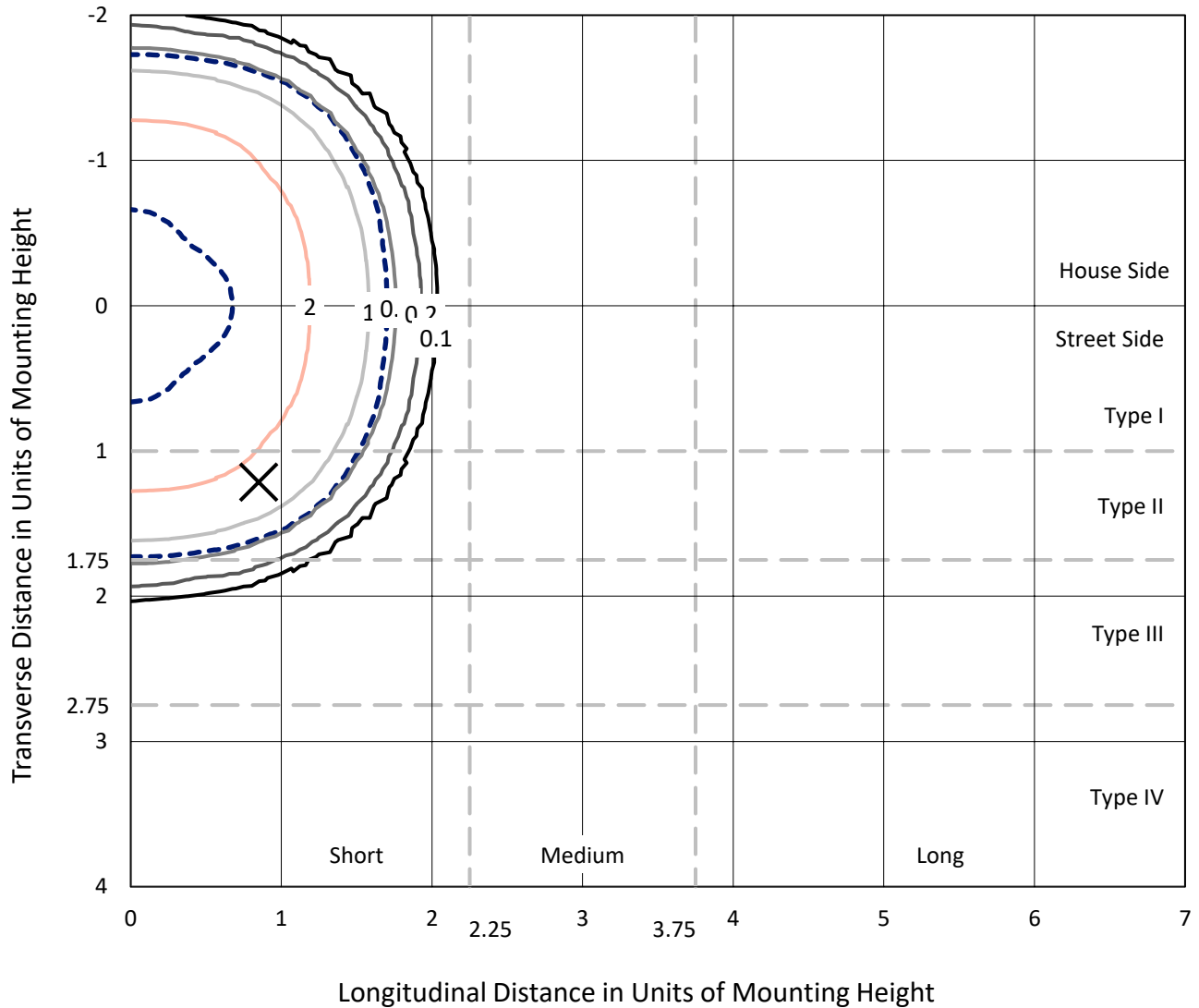
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529703
 CATALOG NUMBER: GALN-SA4D-827-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

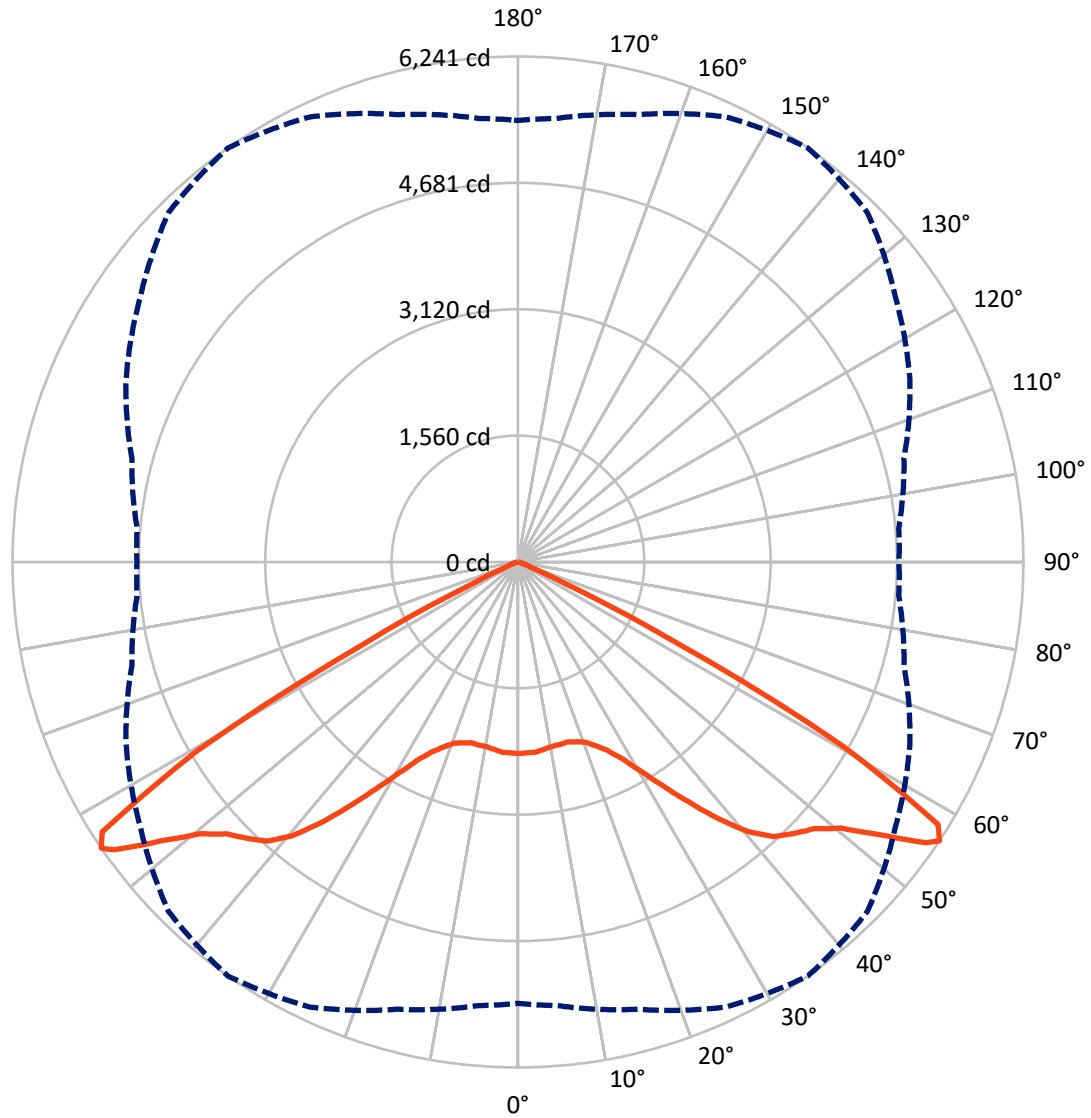
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

REPORT NUMBER: P529703
CATALOG NUMBER: GALN-SA4D-827-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529703
 CATALOG NUMBER: GALN-SA4D-827-U-5MQ-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6750.5	0.0	6750.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6750.5	0.0	6750.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13501.0	0.0	13501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.6
10°-20°	649.1	4.8
20°-30°	1175.5	8.7
30°-40°	2179.7	16.1
40°-50°	3577.9	26.5
50°-60°	4609.3	34.1
60°-70°	1015.8	7.5
70°-80°	58.9	0.4
80°-90°	12.4	0.1
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°	13501.0	100.0
0°-180°	13501.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529703

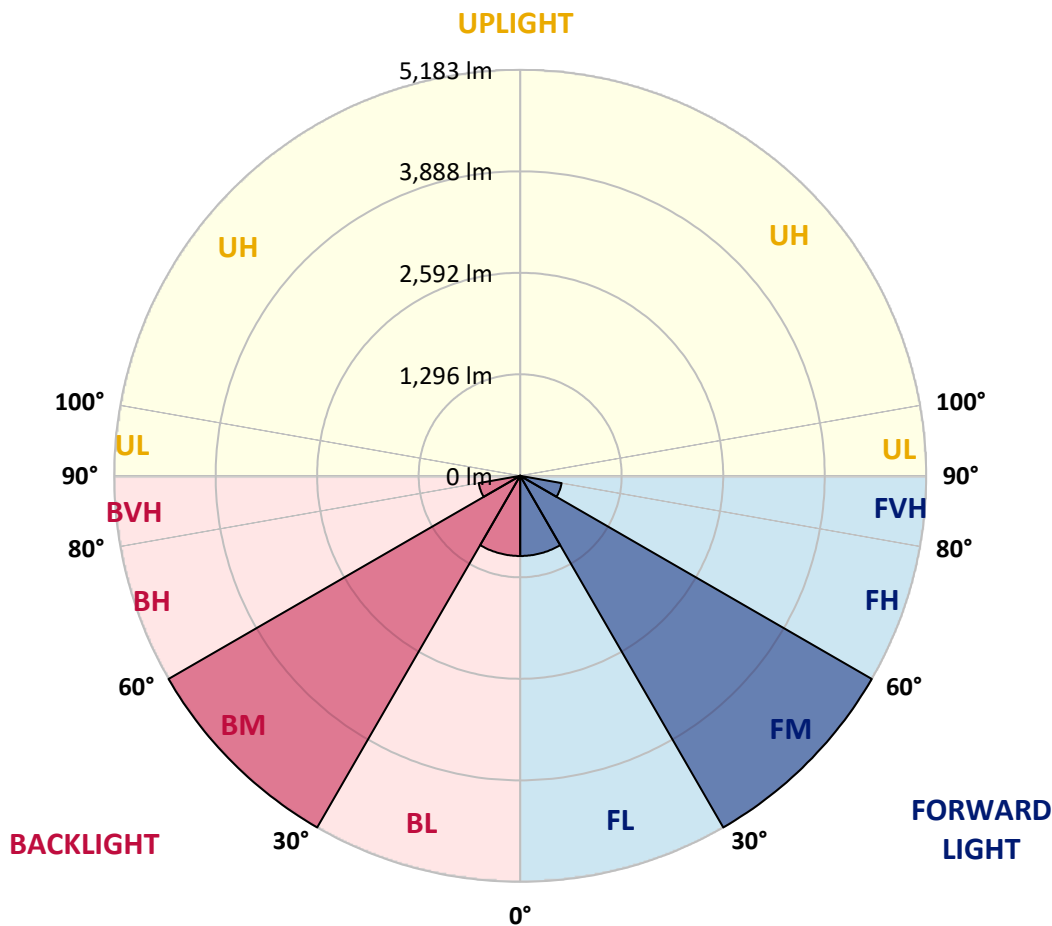
CATALOG NUMBER: GALN-SA4D-827-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.5	7.6			
FM (30°-60°)	5183.4	38.4			
FH (60°-80°)	537.4	4.0			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	1023.5	7.6	B3/2500		
BM (30°-60°)	5183.4	38.4	B4/8500		
BH (60°-80°)	537.4	4.0	B2/1000		G0/660
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





REPORT NUMBER: P529703

CATALOG NUMBER: GALN-SA4D-827-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7
2.5°	2370.6	2370.6	2373.0	2375.5	2358.3	2351.0	2353.4	2348.5	2346.1	2353.4	2353.4
5°	2363.2	2363.2	2355.9	2358.3	2358.3	2336.3	2336.3	2341.2	2341.2	2326.5	2321.6
7.5°	2343.6	2338.8	2329.0	2341.2	2333.9	2333.9	2316.7	2304.5	2299.6	2309.4	2299.6
10°	2302.1	2304.5	2314.3	2319.2	2314.3	2329.0	2299.6	2282.5	2265.4	2258.0	2258.0
12.5°	2282.5	2297.2	2282.5	2294.7	2311.8	2299.6	2282.5	2270.3	2245.8	2236.0	2236.0
15°	2280.0	2289.8	2294.7	2311.8	2304.5	2309.4	2275.1	2260.5	2223.8	2206.6	2199.3
17.5°	2277.6	2289.8	2297.2	2329.0	2333.9	2336.3	2309.4	2265.4	2233.6	2216.4	2199.3
20°	2304.5	2309.4	2324.1	2355.9	2375.5	2409.7	2360.8	2314.3	2245.8	2226.2	2218.9
22.5°	2338.8	2363.2	2377.9	2412.1	2463.5	2492.9	2429.3	2370.6	2299.6	2275.1	2245.8
25°	2448.8	2444.0	2468.4	2539.4	2580.9	2603.0	2551.6	2466.0	2373.0	2343.6	2348.5
27.5°	2585.8	2590.7	2612.8	2691.0	2752.2	2786.4	2725.3	2612.8	2522.2	2473.3	2468.4
30°	2764.4	2759.5	2784.0	2889.2	2999.3	3050.7	2943.0	2810.9	2722.8	2659.2	2673.9
32.5°	2952.8	2955.2	3023.7	3119.2	3297.7	3398.0	3224.4	3062.9	2930.8	2886.7	2864.7
35°	3231.7	3243.9	3297.7	3444.5	3642.7	3772.3	3581.5	3388.3	3236.6	3155.9	3165.6
37.5°	3576.6	3564.4	3654.9	3813.9	4021.9	4117.3	3955.8	3735.6	3581.5	3527.7	3562.0
40°	3943.6	3955.8	4002.3	4146.6	4379.0	4442.7	4202.9	4083.0	3948.5	3921.6	3963.2
42.5°	4310.6	4303.2	4337.5	4467.1	4635.9	4591.9	4450.0	4379.0	4283.6	4229.8	4286.1
45°	4579.7	4567.4	4631.0	4719.1	4780.3	4697.1	4633.5	4609.0	4560.1	4501.4	4552.7
47.5°	4841.4	4831.6	4892.8	4917.3	4922.2	4812.1	4824.3	4868.3	4746.0	4623.7	4682.4
50°	5064.0	5046.9	5122.8	5176.6	5164.3	4988.2	5032.2	4988.2	4797.4	4653.0	4631.0
52.5°	5435.9	5443.2	5524.0	5621.8	5592.5	5445.7	5382.1	5181.5	4936.8	4807.2	4731.3
55°	5670.7	5634.1	5773.5	6084.2	6118.4	5966.8	5685.4	5389.4	5022.5	4863.4	4843.9
56°	5450.6	5497.1	5717.2	6064.6	6240.8	6101.3	5692.8	5338.0	4934.4	4719.1	4704.4
57.5°	4890.3	4865.9	5164.3	5638.9	6118.4	6059.7	5492.2	4971.1	4501.4	4259.2	4229.8
60°	3043.3	3114.3	3376.0	3963.2	4604.1	4633.5	4070.8	3623.1	3075.1	2859.8	2911.2
62.5°	1191.4	1130.2	1294.1	1732.0	2172.4	2270.3	2057.4	1710.0	1404.2	1191.4	1176.7
65°	276.4	269.1	303.4	418.3	584.7	677.7	643.4	462.4	340.0	322.9	298.5
67.5°	156.6	156.6	149.2	149.2	163.9	173.7	166.4	163.9	171.2	178.6	176.1
70°	110.1	107.6	102.7	105.2	100.3	100.3	107.6	119.9	129.7	129.7	132.1
72.5°	66.1	66.1	66.1	73.4	73.4	73.4	80.7	90.5	93.0	90.5	88.1
75°	29.4	29.4	34.2	41.6	46.5	48.9	56.3	61.2	66.1	61.2	56.3
77.5°	7.3	7.3	12.2	17.1	22.0	26.9	36.7	44.0	46.5	44.0	36.7
80°	2.4	2.4	4.9	12.2	22.0	26.9	36.7	39.1	41.6	36.7	29.4
82.5°	2.4	2.4	4.9	12.2	17.1	22.0	29.4	34.2	36.7	31.8	29.4
85°	0.0	2.4	4.9	9.8	14.7	19.6	19.6	14.7	12.2	7.3	9.8
87.5°	0.0	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)