

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: P530641

Luminaire Tested: **GALN-SA5D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19564 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

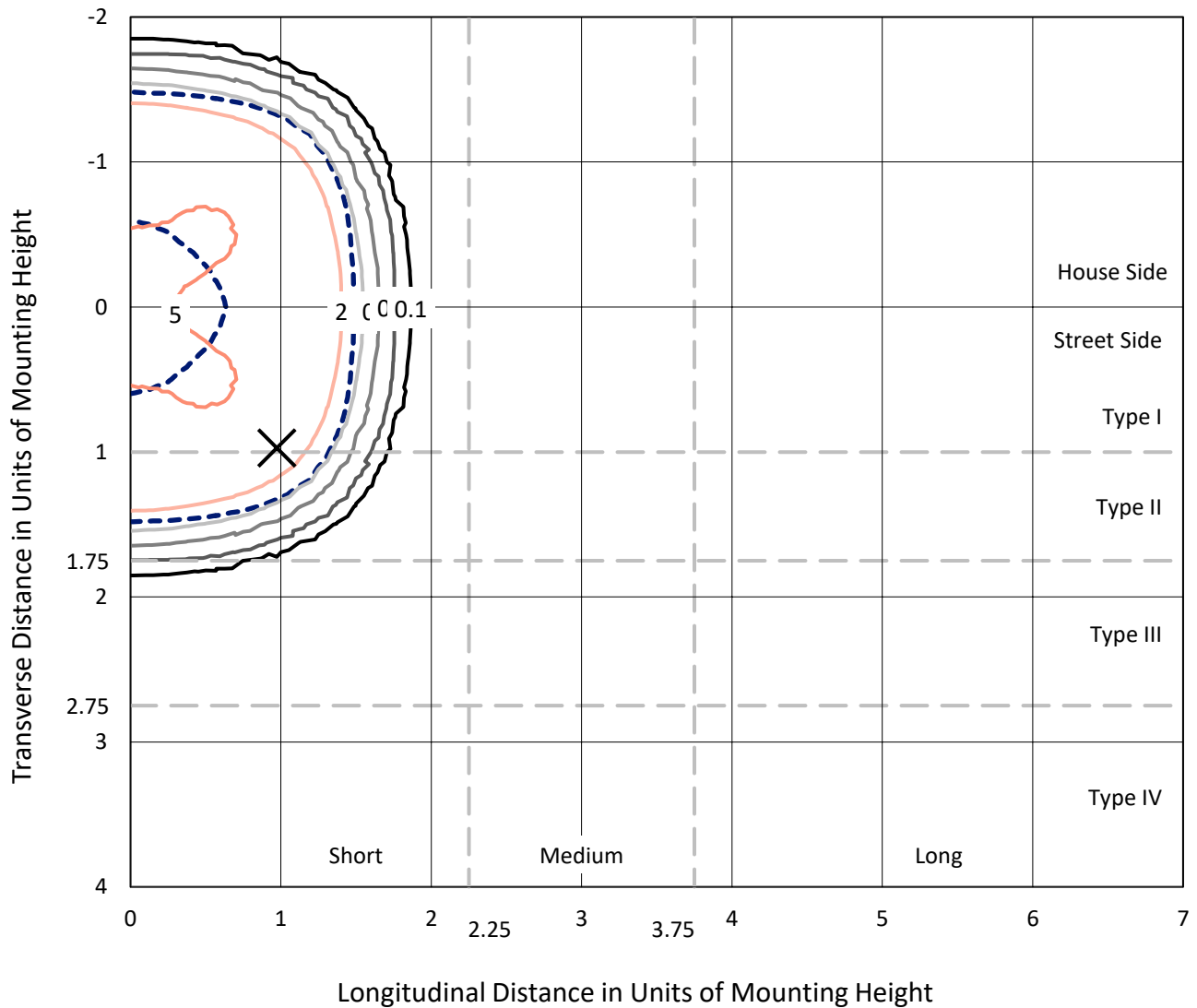
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

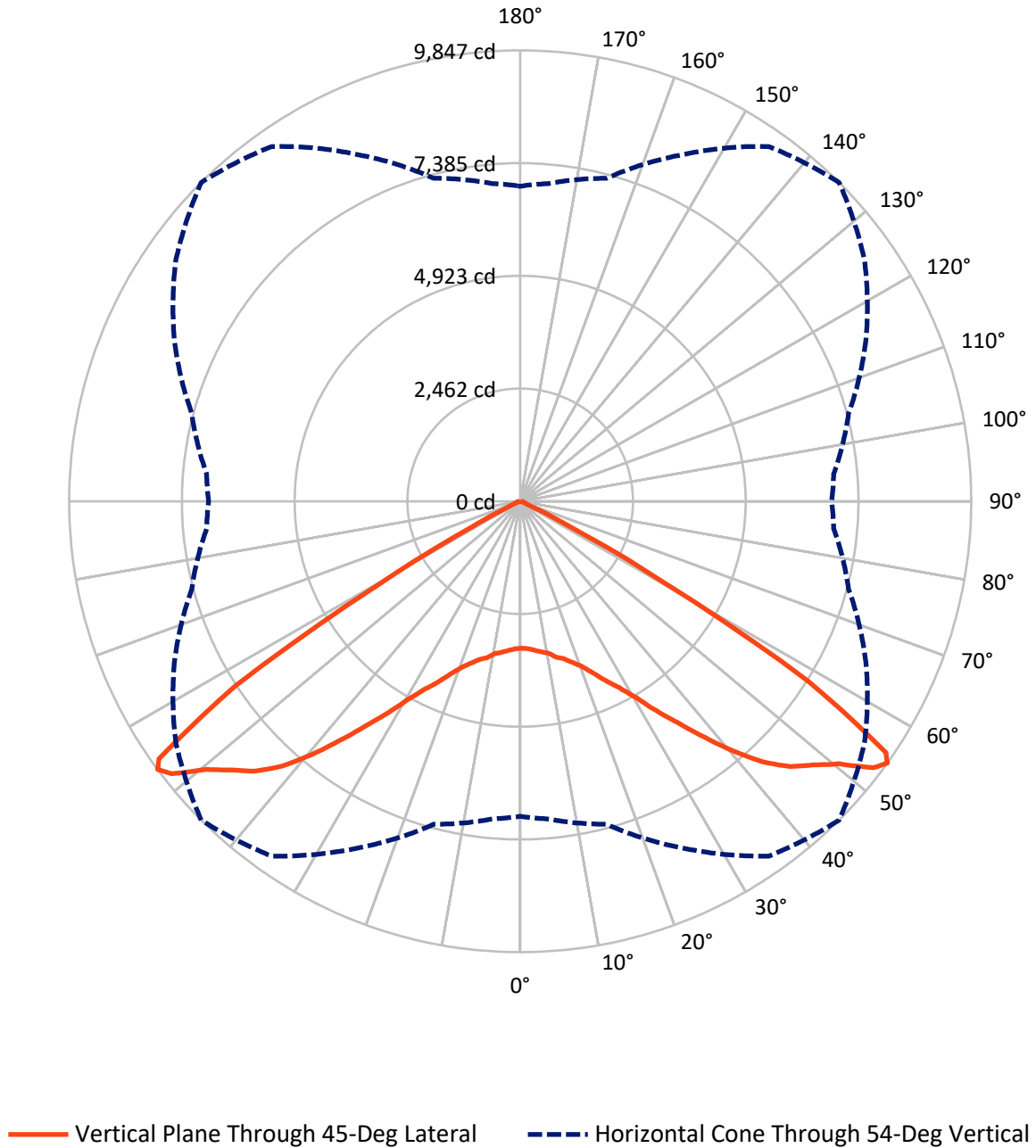
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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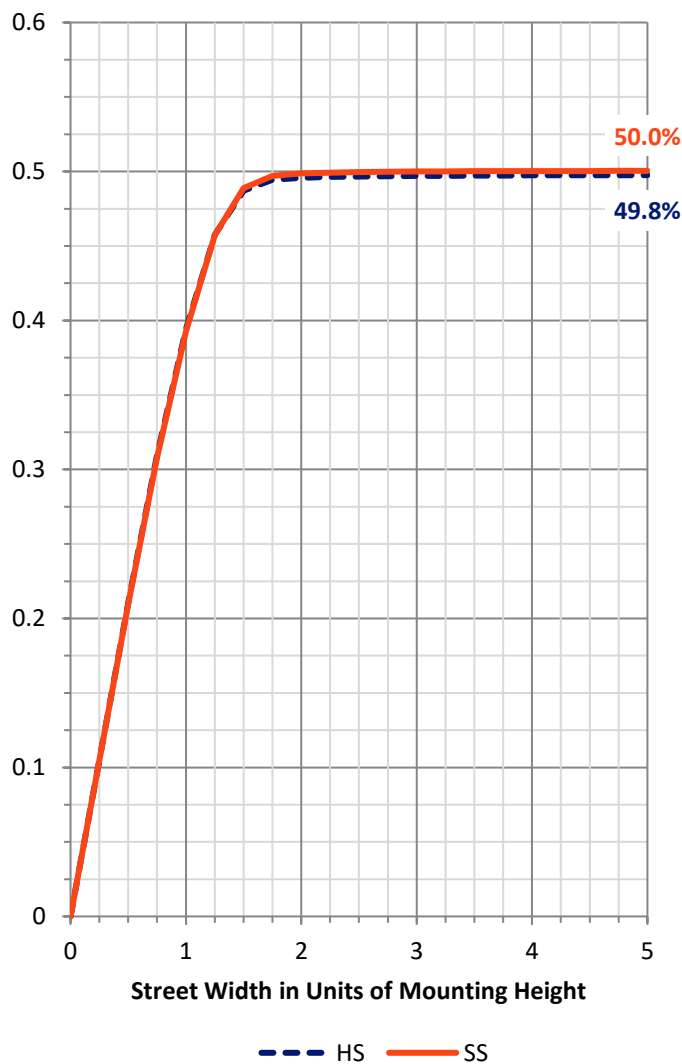
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9782.0	0.0	9782.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9782.0	0.0	9782.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19564.0	0.0	19564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.0	1.6
10°-20°	1016.8	5.2
20°-30°	1992.8	10.2
30°-40°	3583.5	18.3
40°-50°	6134.3	31.4
50°-60°	5935.5	30.3
60°-70°	508.1	2.6
70°-80°	60.2	0.3
80°-90°	18.9	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°	19564.0	100.0
0°-180°	19564.0	100.0

Coefficient of Utilization

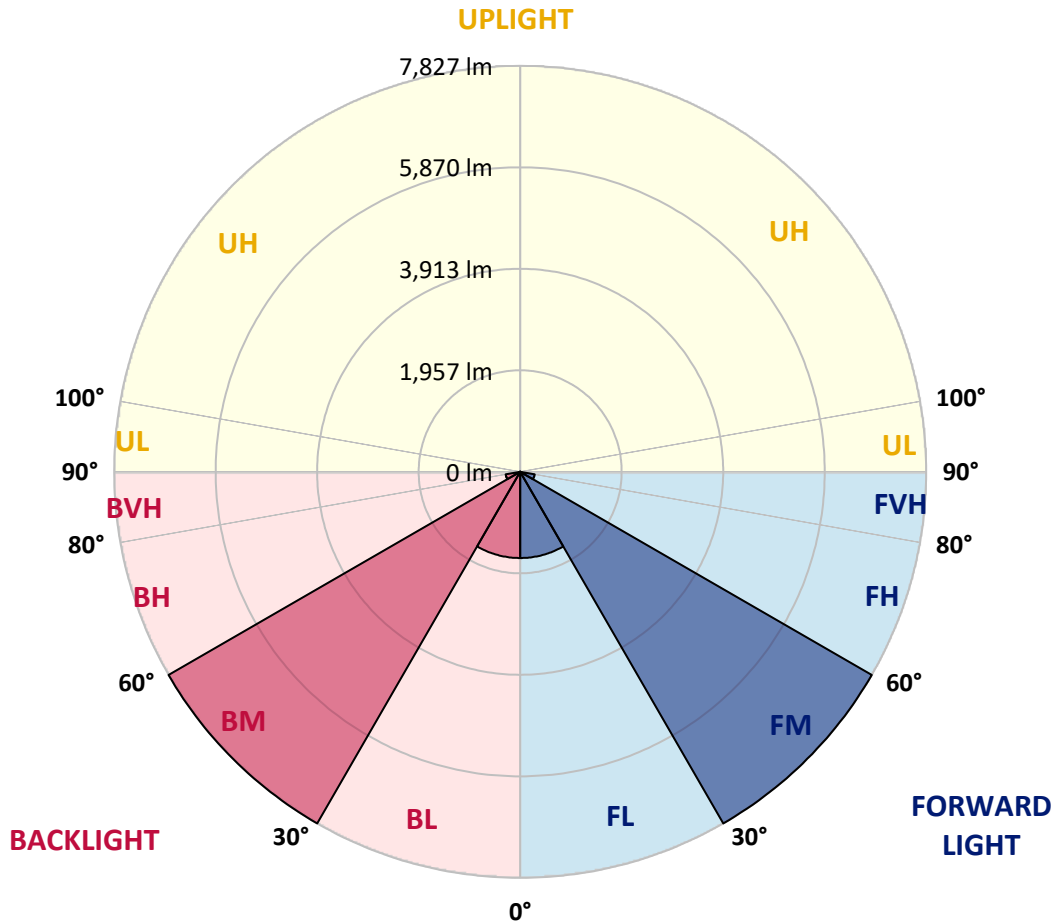


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.8	8.5			
FM (30°-60°)	7826.6	40.0			
FH (60°-80°)	284.2	1.5			G0/660
FVH (80°-90°)	9.4	0.0			G0/10
BL (0°-30°)	1661.8	8.5	B3/2500		
BM (30°-60°)	7826.6	40.0	B4/8500		
BH (60°-80°)	284.2	1.5	B1/500		G0/660
BVH (80°-90°)	9.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9
2.5°	3223.4	3242.0	3229.6	3238.9	3238.9	3223.4	3232.7	3195.5	3220.3	3201.7	3204.8
5°	3273.0	3269.9	3269.9	3273.0	3260.6	3266.8	3254.4	3242.0	3232.7	3220.3	3257.5
7.5°	3335.0	3335.0	3313.3	3319.5	3313.3	3322.6	3297.8	3273.0	3263.7	3254.4	3248.2
10°	3393.9	3387.7	3378.4	3406.2	3384.6	3372.2	3359.8	3344.3	3310.2	3297.8	3285.4
12.5°	3480.6	3477.5	3465.1	3493.0	3480.6	3493.0	3446.5	3406.2	3400.0	3359.8	3381.5
15°	3582.9	3610.8	3589.1	3589.1	3582.9	3567.4	3548.8	3530.2	3474.4	3458.9	3462.0
17.5°	3716.2	3706.9	3710.0	3710.0	3741.0	3700.7	3663.5	3617.0	3589.1	3579.8	3548.8
20°	3843.3	3855.7	3852.6	3874.3	3892.9	3849.5	3809.2	3803.0	3725.5	3737.9	3694.5
22.5°	4066.4	4057.1	4072.6	4088.1	4075.7	4069.5	4032.3	3985.8	3917.7	3886.7	3880.5
25°	4302.0	4286.5	4258.6	4295.8	4314.4	4342.3	4271.0	4246.2	4140.8	4094.3	4097.4
27.5°	4503.4	4525.1	4556.1	4571.6	4618.1	4608.8	4559.2	4478.6	4398.1	4345.4	4311.3
30°	4779.3	4791.7	4844.4	4866.1	4946.7	4968.3	4890.9	4797.9	4655.3	4587.1	4546.8
32.5°	5033.4	5120.2	5117.1	5225.6	5355.8	5445.7	5306.2	5163.6	5021.0	4940.5	4869.2
35°	5445.7	5430.2	5520.0	5634.7	5845.5	5947.8	5795.9	5631.6	5414.7	5284.5	5228.7
37.5°	5830.0	5836.2	5957.1	6139.9	6381.7	6539.7	6406.5	6136.8	5913.7	5746.3	5668.8
40°	6387.9	6400.3	6524.3	6731.9	7004.7	7175.1	7020.2	6747.4	6449.9	6319.7	6319.7
42.5°	7041.9	7094.5	7175.1	7354.9	7599.7	7788.8	7649.3	7435.5	7134.8	6967.5	6992.3
45°	7714.4	7739.2	7791.9	8058.5	8173.1	8266.1	8135.9	8036.8	7835.3	7630.7	7596.6
47.5°	8343.6	8352.9	8507.9	8591.6	8681.4	8604.0	8687.6	8557.5	8331.2	8132.8	8092.6
50°	8622.6	8607.1	8827.1	9081.3	9149.5	9013.1	8941.8	8855.0	8511.0	8272.3	8166.9
52.5°	7810.5	7900.4	8309.5	9016.2	9549.3	9664.0	9248.6	8848.8	8207.2	7742.3	7671.0
54°	6880.7	6964.4	7302.2	8349.8	9459.4	9846.8	9177.3	8328.1	7423.1	6871.4	6800.1
55°	5960.2	5867.2	6480.9	7550.2	9037.9	9685.6	8895.3	7655.5	6620.3	6115.1	6015.9
57.5°	3226.5	3242.0	3759.6	4770.0	6350.7	7426.2	6558.3	5179.1	3911.5	3344.3	3294.7
60°	1022.8	1047.6	1273.9	1927.8	3034.3	3623.2	3105.6	2079.7	1438.1	1153.0	1106.5
62.5°	319.2	331.6	362.6	539.3	830.6	1187.1	929.8	557.9	415.3	381.2	387.4
65°	195.3	195.3	198.4	210.8	248.0	288.2	278.9	244.9	235.6	229.4	226.3
67.5°	127.1	124.0	130.2	139.5	145.7	148.8	158.1	167.4	164.3	158.1	158.1
70°	77.5	74.4	80.6	93.0	96.1	102.3	111.6	124.0	120.9	114.7	117.8
72.5°	43.4	43.4	46.5	55.8	65.1	71.3	80.6	89.9	93.0	89.9	89.9
75°	15.5	18.6	24.8	34.1	40.3	49.6	58.9	68.2	77.5	71.3	68.2
77.5°	6.2	6.2	12.4	21.7	31.0	40.3	55.8	65.1	71.3	65.1	58.9
80°	3.1	3.1	9.3	18.6	27.9	37.2	46.5	55.8	58.9	52.7	46.5
82.5°	3.1	3.1	9.3	18.6	27.9	34.1	49.6	55.8	62.0	55.8	46.5
85°	0.0	3.1	9.3	18.6	24.8	27.9	27.9	18.6	15.5	9.3	9.3
87.5°	0.0	0.0	3.1	0.0	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)