

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: P530485

Luminaire Tested: **GALN-SA5D-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530485
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-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 22258 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

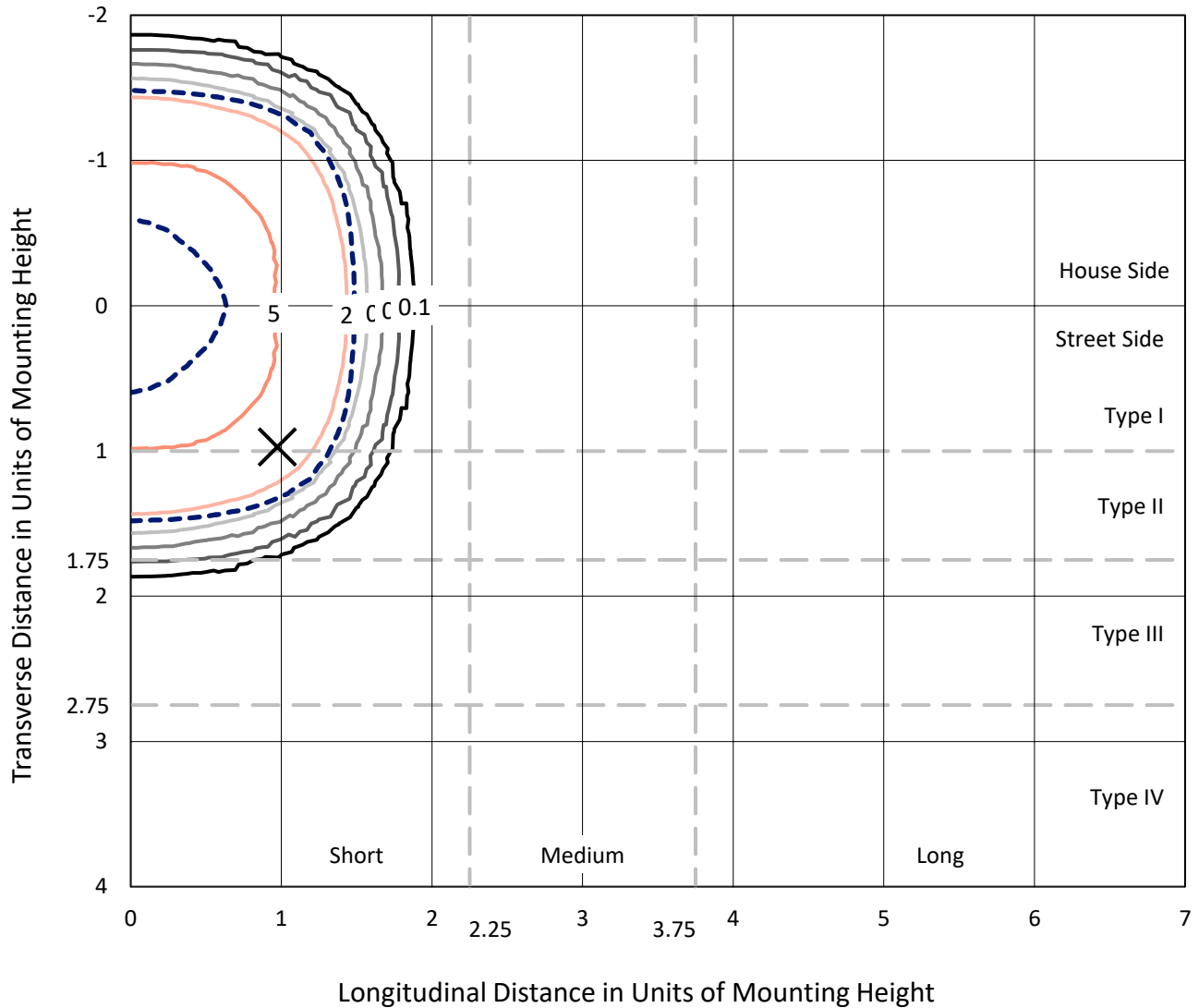
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

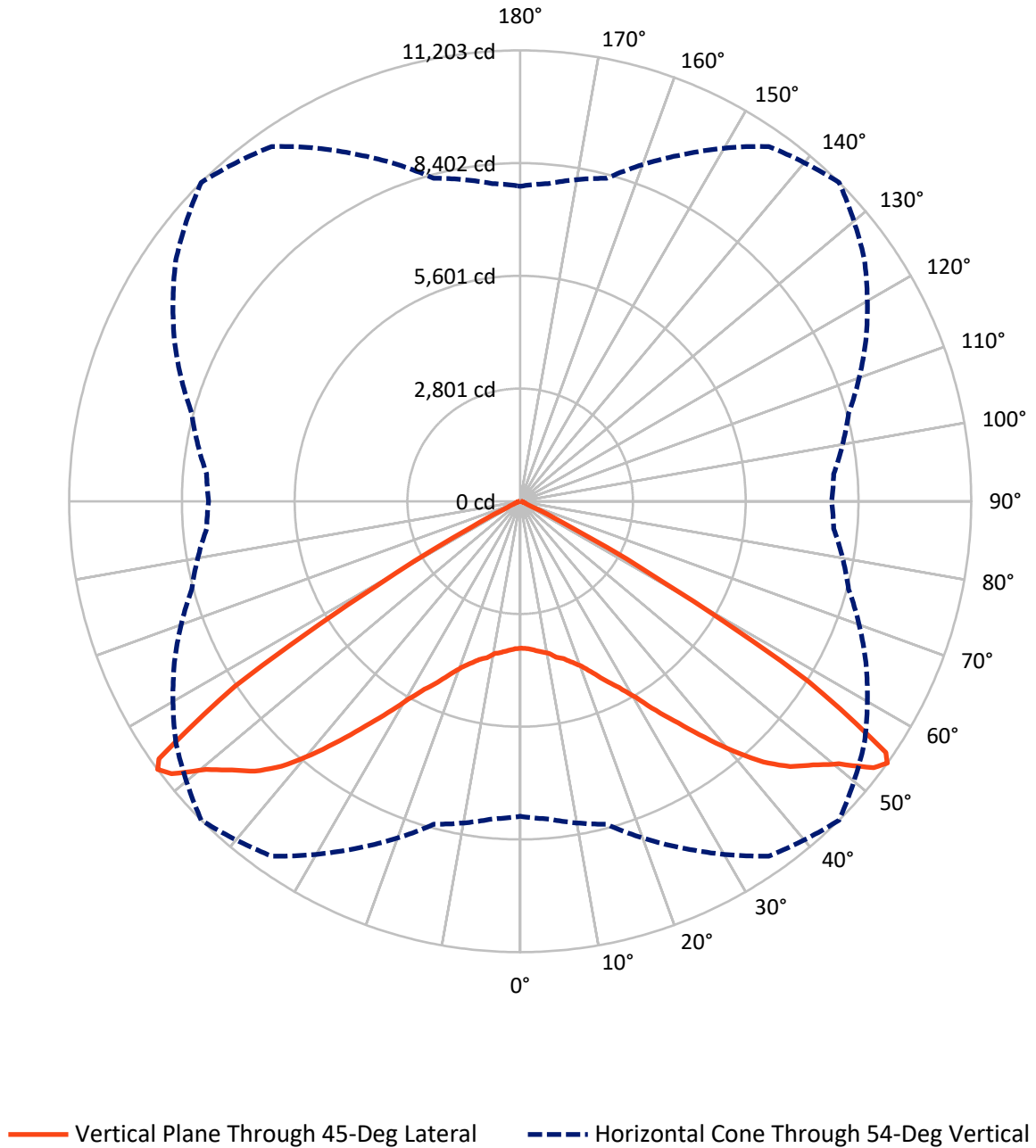
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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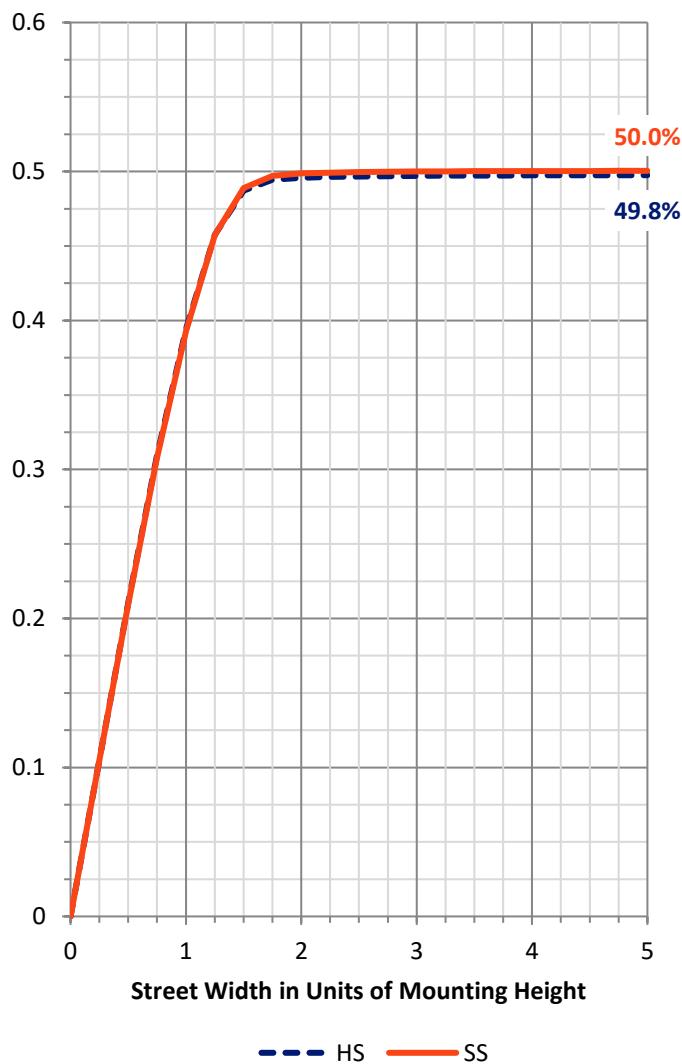
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11129.0	0.0	11129.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11129.0	0.0	11129.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22258.0	0.0	22258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	1.6
10°-20°	1156.8	5.2
20°-30°	2267.2	10.2
30°-40°	4077.0	18.3
40°-50°	6978.9	31.4
50°-60°	6752.8	30.3
60°-70°	578.1	2.6
70°-80°	68.5	0.3
80°-90°	21.5	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°	22258.0	100.0
0°-180°	22258.0	100.0

Coefficient of Utilization

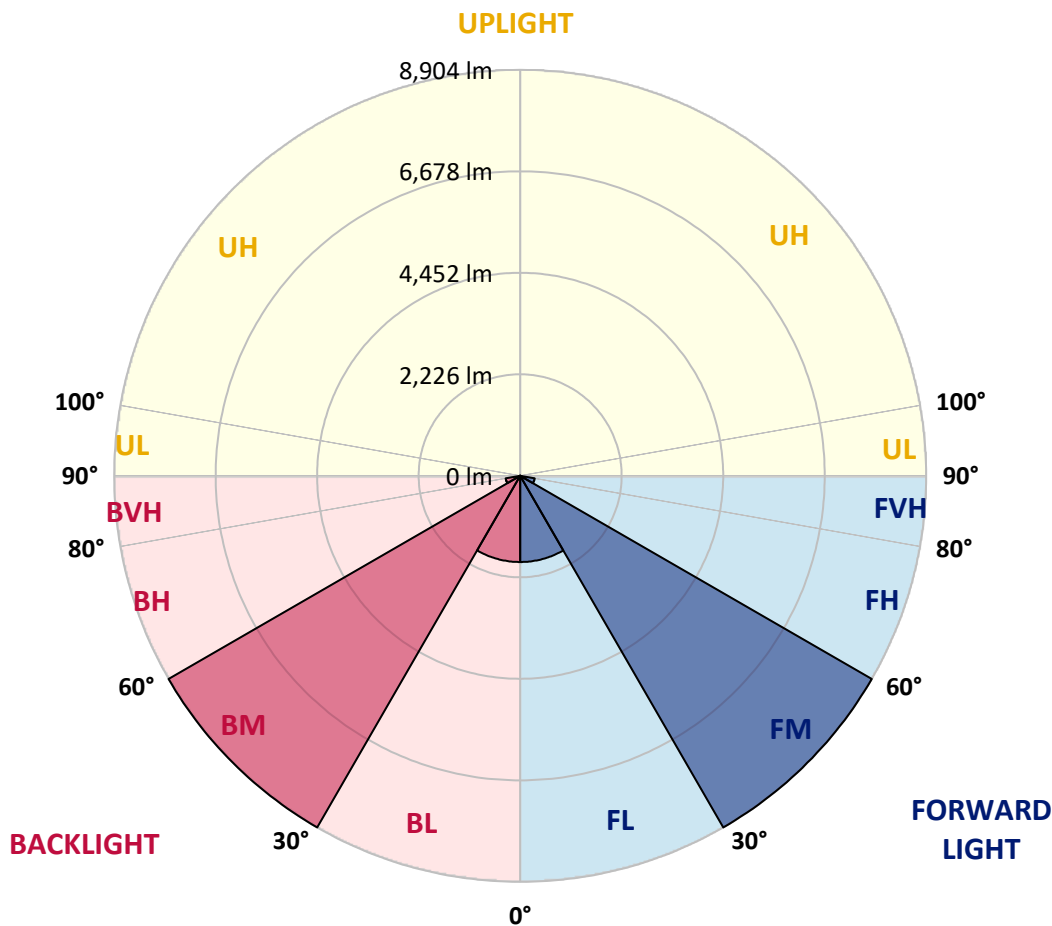


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1890.6	8.5			
FM (30°-60°)	8904.4	40.0			
FH (60°-80°)	323.3	1.5			G0/660
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	1890.6	8.5	B3/2500		
BM (30°-60°)	8904.4	40.0	B5		
BH (60°-80°)	323.3	1.5	B1/500		G0/660
BVH (80°-90°)	10.7	0.0			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°	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6
2.5°	3667.2	3688.4	3674.3	3684.9	3684.9	3667.2	3677.8	3635.5	3663.7	3642.6	3646.1
5°	3723.7	3720.1	3720.1	3723.7	3709.6	3716.6	3702.5	3688.4	3677.8	3663.7	3706.0
7.5°	3794.2	3794.2	3769.5	3776.6	3769.5	3780.1	3751.9	3723.7	3713.1	3702.5	3695.5
10°	3861.2	3854.1	3843.6	3875.3	3850.6	3836.5	3822.4	3804.8	3766.0	3751.9	3737.8
12.5°	3959.9	3956.4	3942.3	3974.0	3959.9	3974.0	3921.1	3875.3	3868.2	3822.4	3847.1
15°	4076.3	4108.0	4083.3	4083.3	4076.3	4058.7	4037.5	4016.3	3952.9	3935.2	3938.8
17.5°	4227.9	4217.3	4220.9	4220.9	4256.1	4210.3	4168.0	4115.1	4083.3	4072.8	4037.5
20°	4372.5	4386.6	4383.1	4407.8	4428.9	4379.5	4333.7	4326.6	4238.5	4252.6	4203.2
22.5°	4626.4	4615.8	4633.4	4651.1	4637.0	4629.9	4587.6	4534.7	4457.1	4421.9	4414.8
25°	4894.4	4876.7	4845.0	4887.3	4908.5	4940.2	4859.1	4830.9	4711.0	4658.1	4661.6
27.5°	5123.6	5148.3	5183.5	5201.1	5254.0	5243.5	5187.0	5095.4	5003.7	4943.7	4904.9
30°	5437.4	5451.5	5511.5	5536.1	5627.8	5652.5	5564.3	5458.6	5296.4	5218.8	5172.9
32.5°	5726.6	5825.3	5821.8	5945.2	6093.3	6195.5	6036.9	5874.7	5712.4	5620.8	5539.7
35°	6195.5	6177.9	6280.2	6410.6	6650.4	6766.8	6594.0	6407.1	6160.3	6012.2	5948.7
37.5°	6632.8	6639.8	6777.4	6985.4	7260.4	7440.3	7288.7	6981.9	6728.0	6537.6	6449.4
40°	7267.5	7281.6	7422.7	7658.9	7969.2	8163.2	7986.8	7676.5	7338.0	7189.9	7189.9
42.5°	8011.5	8071.5	8163.2	8367.7	8646.2	8861.3	8702.7	8459.4	8117.3	7926.9	7955.1
45°	8776.7	8804.9	8864.9	9168.1	9298.6	9404.4	9256.3	9143.4	8914.2	8681.5	8642.7
47.5°	9492.5	9503.1	9679.4	9774.6	9876.9	9788.7	9883.9	9735.8	9478.4	9252.8	9206.9
50°	9809.9	9792.3	10042.6	10331.8	10409.3	10254.2	10173.1	10074.4	9682.9	9411.4	9291.5
52.5°	8886.0	8988.3	9453.7	10257.7	10864.2	10994.7	10522.2	10067.3	9337.4	8808.5	8727.3
54°	7828.2	7923.4	8307.7	9499.6	10762.0	11202.7	10441.1	9474.9	8445.3	7817.6	7736.5
55°	6780.9	6675.1	7373.3	8589.8	10282.4	11019.4	10120.2	8709.7	7532.0	6957.2	6844.4
57.5°	3670.8	3688.4	4277.3	5426.8	7225.2	8448.8	7461.4	5892.3	4450.1	3804.8	3748.4
60°	1163.6	1191.9	1449.3	2193.3	3452.2	4122.1	3533.3	2366.1	1636.2	1311.7	1258.9
62.5°	363.2	377.3	412.6	613.6	945.0	1350.5	1057.9	634.7	472.5	433.7	440.8
65°	222.2	222.2	225.7	239.8	282.1	327.9	317.4	278.6	268.0	260.9	257.4
67.5°	144.6	141.0	148.1	158.7	165.7	169.3	179.8	190.4	186.9	179.8	179.8
70°	88.2	84.6	91.7	105.8	109.3	116.4	126.9	141.0	137.5	130.5	134.0
72.5°	49.4	49.4	52.9	63.5	74.1	81.1	91.7	102.3	105.8	102.3	102.3
75°	17.6	21.2	28.2	38.8	45.8	56.4	67.0	77.6	88.2	81.1	77.6
77.5°	7.1	7.1	14.1	24.7	35.3	45.8	63.5	74.1	81.1	74.1	67.0
80°	3.5	3.5	10.6	21.2	31.7	42.3	52.9	63.5	67.0	59.9	52.9
82.5°	3.5	3.5	10.6	21.2	31.7	38.8	56.4	63.5	70.5	63.5	52.9
85°	0.0	3.5	10.6	21.2	28.2	31.7	31.7	21.2	17.6	10.6	10.6
87.5°	0.0	0.0	3.5	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)