

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: P530492

Luminaire Tested: **GALN-SA5D-727-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530492
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-SA5D-727-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 28389 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

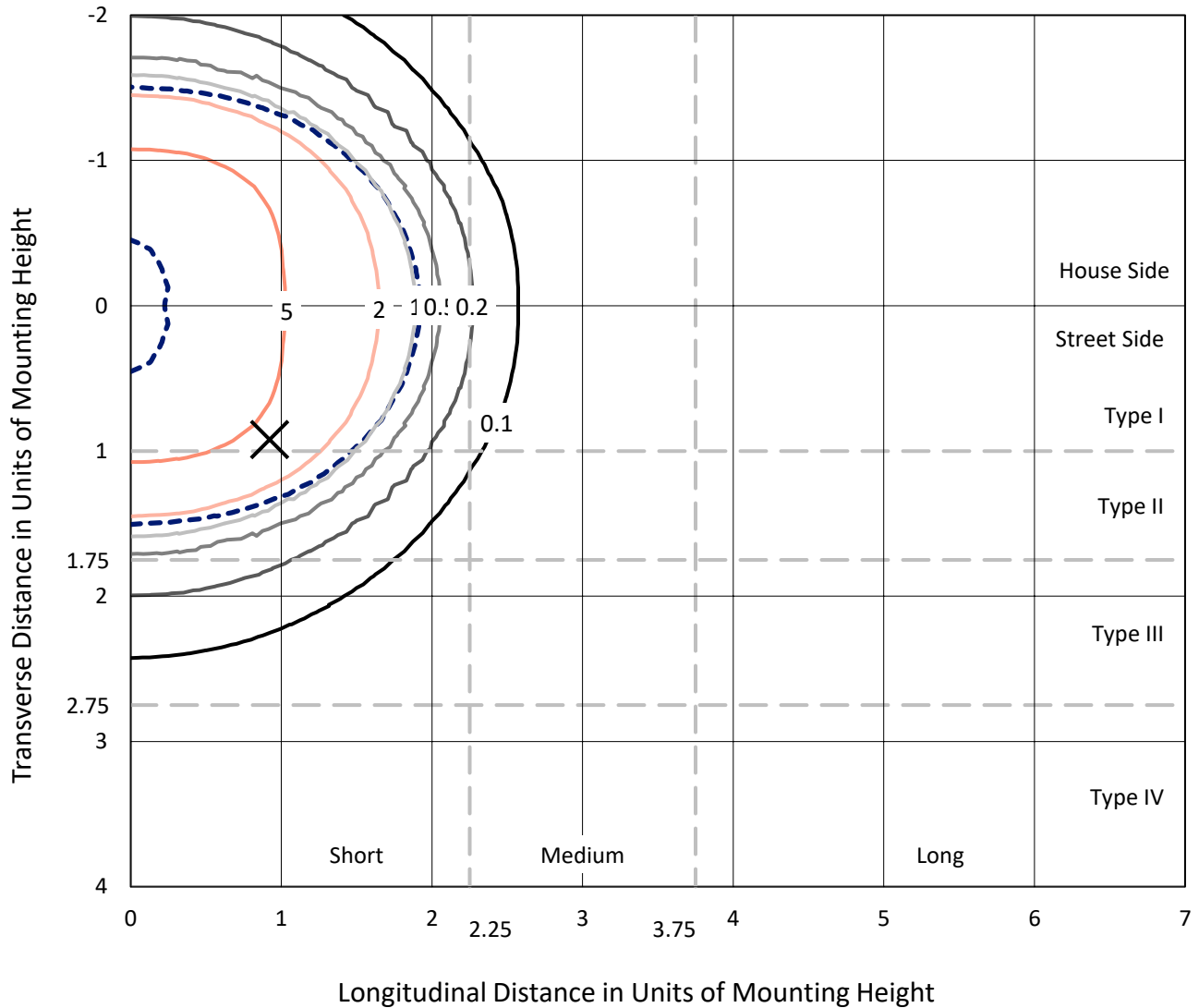
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

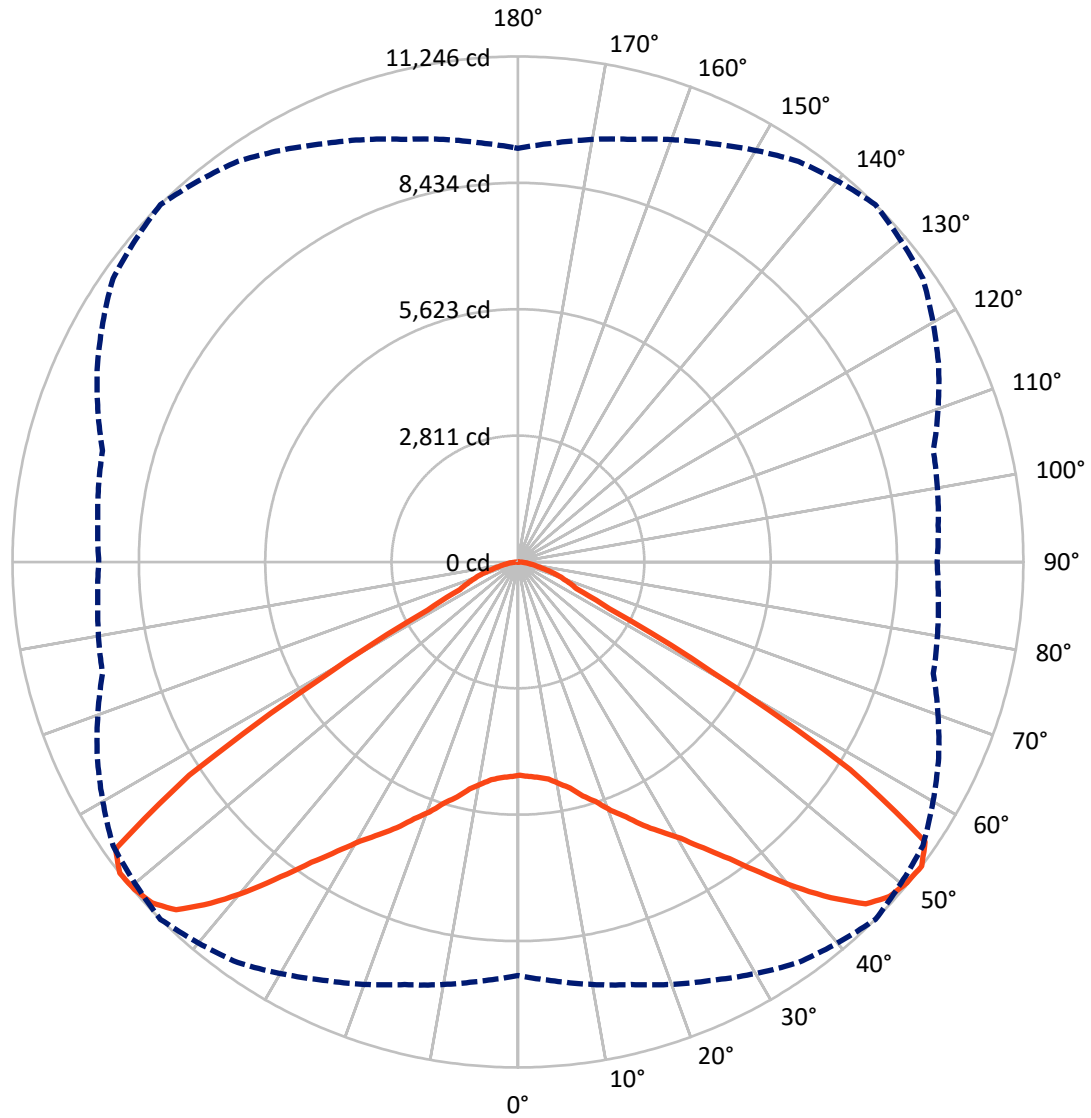
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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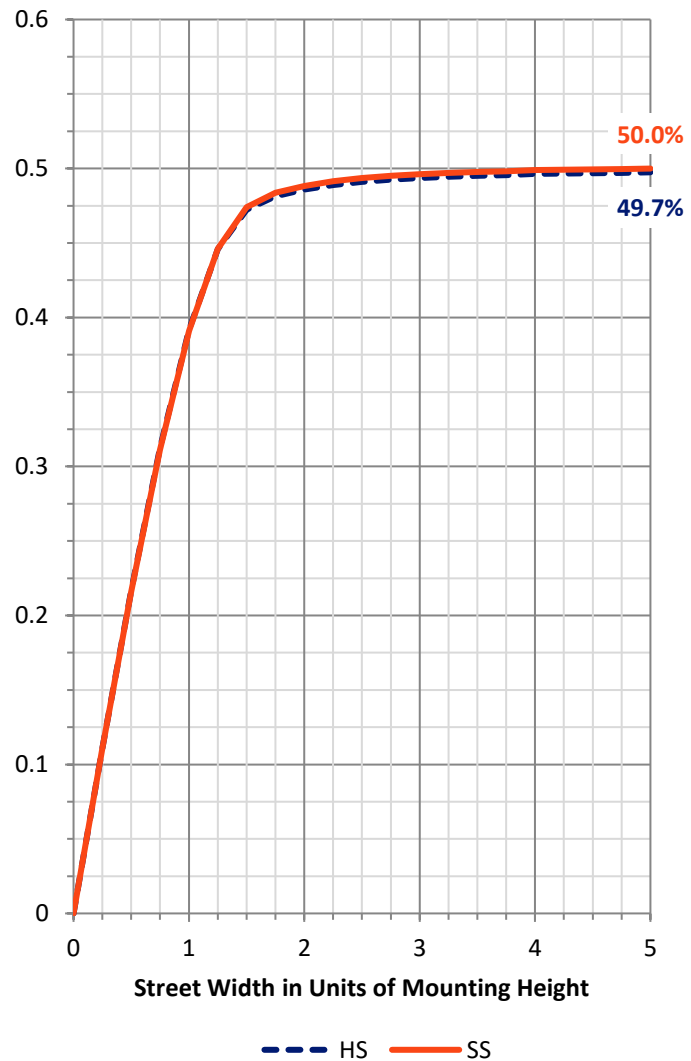
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14194.5	0.0	14194.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14194.5	0.0	14194.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28389.0	0.0	28389.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.2	1.6
10°-20°	1532.0	5.4
20°-30°	2916.8	10.3
30°-40°	5008.3	17.6
40°-50°	7697.9	27.1
50°-60°	7817.1	27.5
60°-70°	2178.5	7.7
70°-80°	642.6	2.3
80°-90°	129.4	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°	28389.0	100.0
0°-180°	28389.0	100.0



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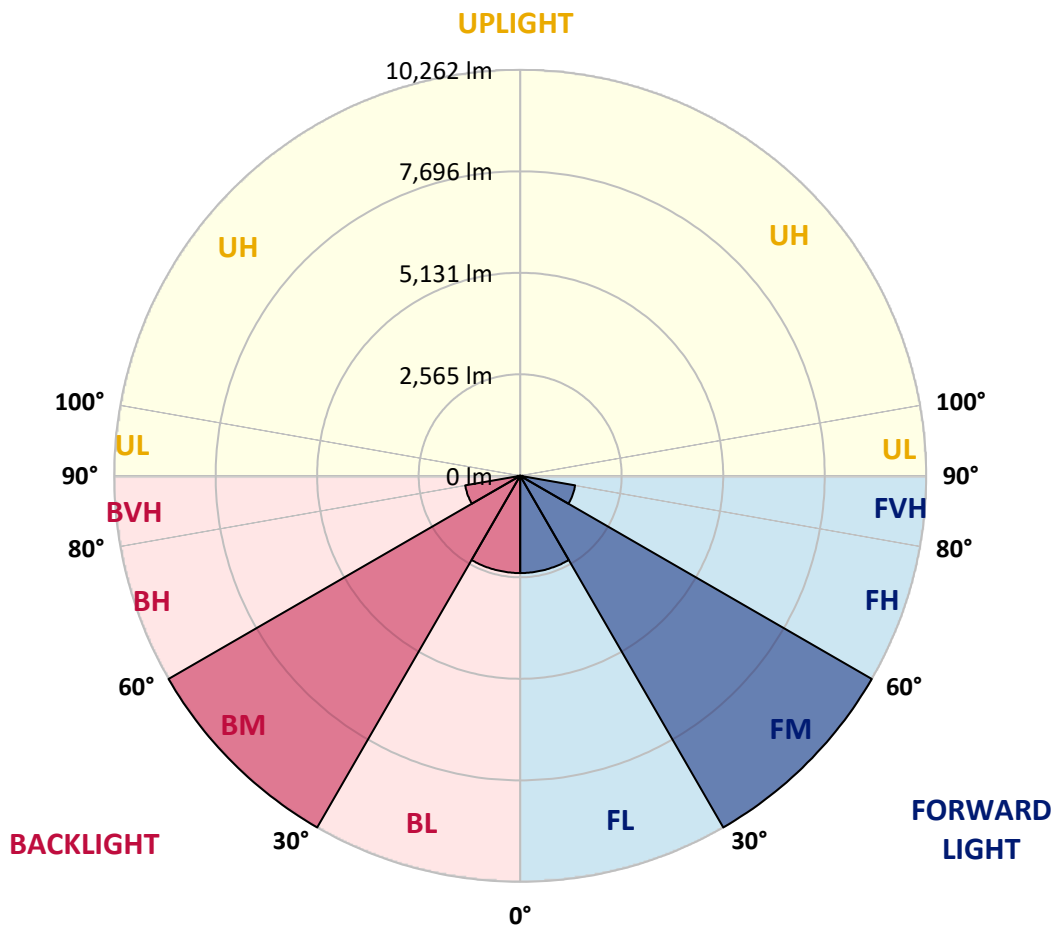
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2457.5	8.7			
FM (30°-60°)	10261.7	36.1			
FH (60°-80°)	1410.6	5.0			G1/1800
FVH (80°-90°)	64.7	0.2			G1/100
BL (0°-30°)	2457.5	8.7	B3/2500		
BM (30°-60°)	10261.7	36.1	B5		
BH (60°-80°)	1410.6	5.0	B3/2500		G1/1800
BVH (80°-90°)	64.7	0.2			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°	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6
2.5°	4756.2	4706.8	4724.5	4735.0	4780.8	4777.3	4766.7	4780.8	4794.9	4798.4	4791.4
5°	4752.6	4717.4	4731.5	4742.1	4787.9	4812.5	4805.5	4865.4	4907.7	4897.1	4949.9
7.5°	4724.5	4745.6	4728.0	4780.8	4819.6	4879.5	4942.9	4999.3	5052.1	5112.0	5122.6
10°	4787.9	4787.9	4819.6	4861.9	4964.0	5009.8	5101.4	5182.5	5284.6	5355.1	5326.9
12.5°	4854.8	4865.4	4865.4	4974.6	5059.2	5161.3	5245.9	5355.1	5499.5	5584.1	5626.4
15°	4921.7	4928.8	4964.0	5112.0	5238.8	5400.9	5478.4	5577.0	5658.1	5816.6	5820.1
17.5°	4981.6	5020.4	5126.1	5291.7	5450.2	5605.2	5728.5	5830.7	5901.2	5964.6	5950.5
20°	5207.1	5235.3	5344.5	5510.1	5746.2	5897.6	5939.9	5957.5	6003.3	6130.2	6091.4
22.5°	5425.6	5436.1	5538.3	5792.0	5957.5	6158.4	6204.2	6193.6	6211.2	6242.9	6299.3
25°	5651.0	5668.6	5809.6	6024.5	6257.0	6496.6	6535.3	6454.3	6429.6	6464.9	6468.4
27.5°	5939.9	5943.4	6123.1	6309.8	6574.1	6799.6	6859.4	6796.0	6679.8	6708.0	6753.8
30°	6306.3	6281.7	6461.3	6729.1	7007.4	7134.2	7236.4	7204.7	7077.9	7053.2	7014.5
32.5°	6729.1	6736.1	6898.2	7190.6	7373.8	7585.2	7694.4	7641.6	7560.5	7518.3	7542.9
35°	7324.5	7356.2	7465.4	7708.5	8004.4	8110.1	8282.8	8170.0	7958.6	8011.5	8057.3
37.5°	7814.2	7905.8	8110.1	8399.0	8575.2	8769.0	8832.4	8680.9	8525.9	8462.5	8613.9
40°	8564.6	8536.4	8761.9	9050.8	9311.5	9505.3	9424.3	9272.8	8888.7	8892.3	8934.5
42.5°	9209.3	9223.4	9396.1	9741.3	10097.2	10216.9	9959.8	9589.8	9163.5	9117.7	9209.3
45°	9751.9	9808.3	9906.9	10368.4	10717.2	10847.6	10372.0	9935.1	9364.4	9174.1	9325.6
47.5°	9945.7	10037.3	10252.2	10674.9	11020.2	11125.9	10745.4	10118.3	9551.1	9241.1	9322.1
50°	9973.9	9942.1	10294.5	10682.0	10985.0	11214.0	10879.3	10252.2	9505.3	9343.2	9318.6
52.5°	9202.3	9357.3	9734.3	10266.3	10879.3	11245.7	10999.1	10326.2	9568.7	9385.5	9325.6
55°	7447.8	7264.6	7951.6	8846.5	9973.9	10992.0	10956.8	10364.9	9607.5	9456.0	9374.9
57.5°	4157.2	4210.1	4597.6	5570.0	7025.0	8716.1	9741.3	9956.2	9589.8	9501.8	9544.0
60°	1923.6	1941.2	2106.8	2561.3	3463.2	4942.9	6292.2	7662.7	8293.3	8420.2	8420.2
62.5°	1433.9	1426.8	1469.1	1550.2	1740.4	2272.4	3033.4	4122.0	4988.7	5594.7	5753.2
65°	1296.5	1293.0	1314.1	1342.3	1356.4	1430.4	1599.5	1934.2	2216.0	2378.1	2349.9
67.5°	1134.4	1130.9	1138.0	1155.6	1180.2	1219.0	1261.3	1331.7	1430.4	1423.3	1405.7
70°	916.0	916.0	926.6	940.7	968.8	1014.6	1064.0	1113.3	1197.8	1215.5	1211.9
72.5°	676.4	665.9	687.0	715.2	743.4	799.7	852.6	898.4	958.3	975.9	968.8
75°	429.8	436.9	451.0	482.7	532.0	570.7	627.1	665.9	704.6	718.7	722.2
77.5°	239.6	246.6	271.3	310.0	359.4	401.6	451.0	482.7	507.3	510.8	514.4
80°	144.4	148.0	172.6	207.9	250.1	295.9	334.7	366.4	387.5	377.0	373.4
82.5°	88.1	91.6	112.7	144.4	179.7	214.9	257.2	285.4	306.5	292.4	278.3
85°	45.8	49.3	66.9	88.1	116.3	133.9	133.9	119.8	116.3	109.2	105.7
87.5°	14.1	14.1	17.6	21.1	17.6	21.1	24.7	28.2	28.2	31.7	28.2
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)