

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: P530486

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29183 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

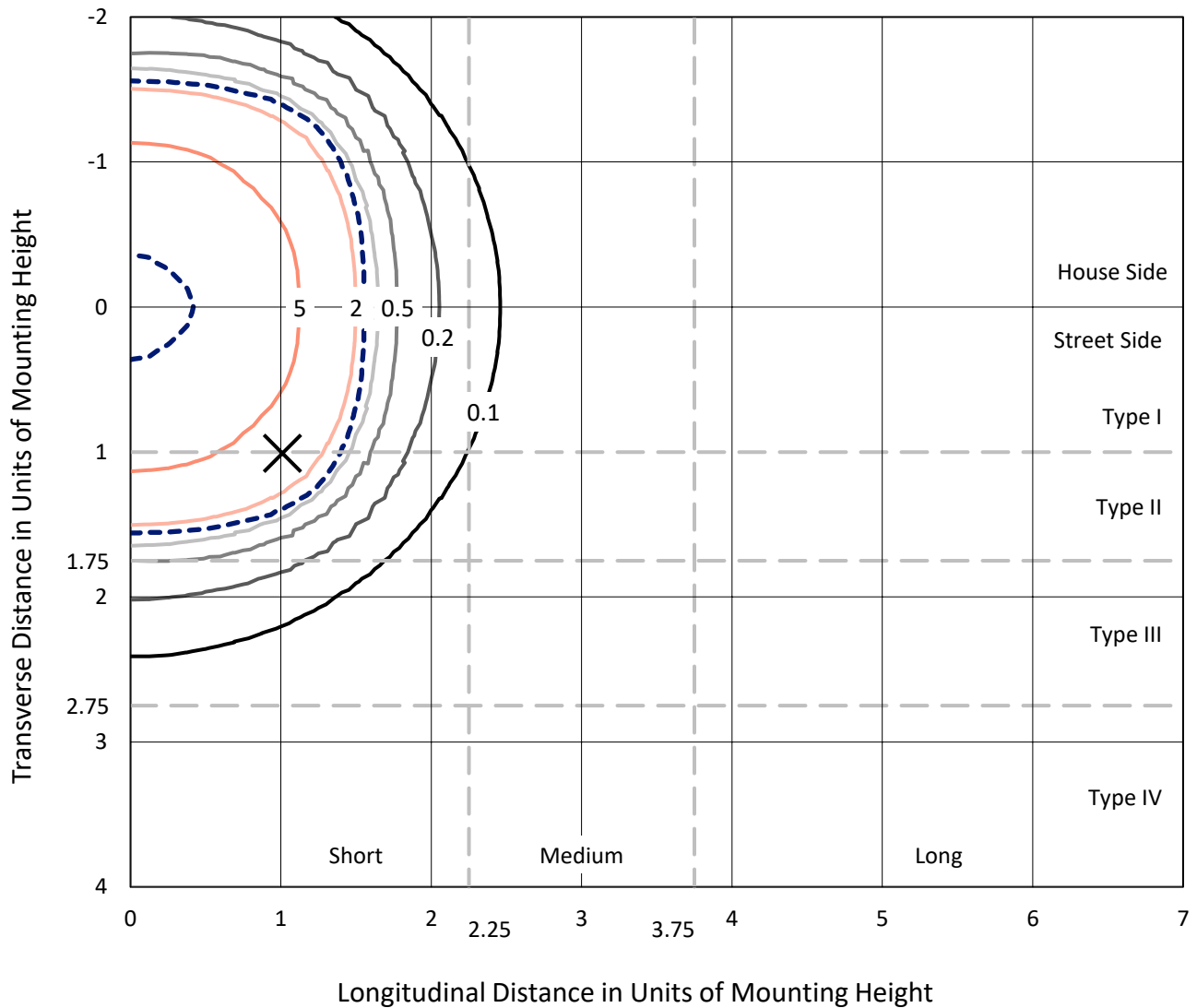
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

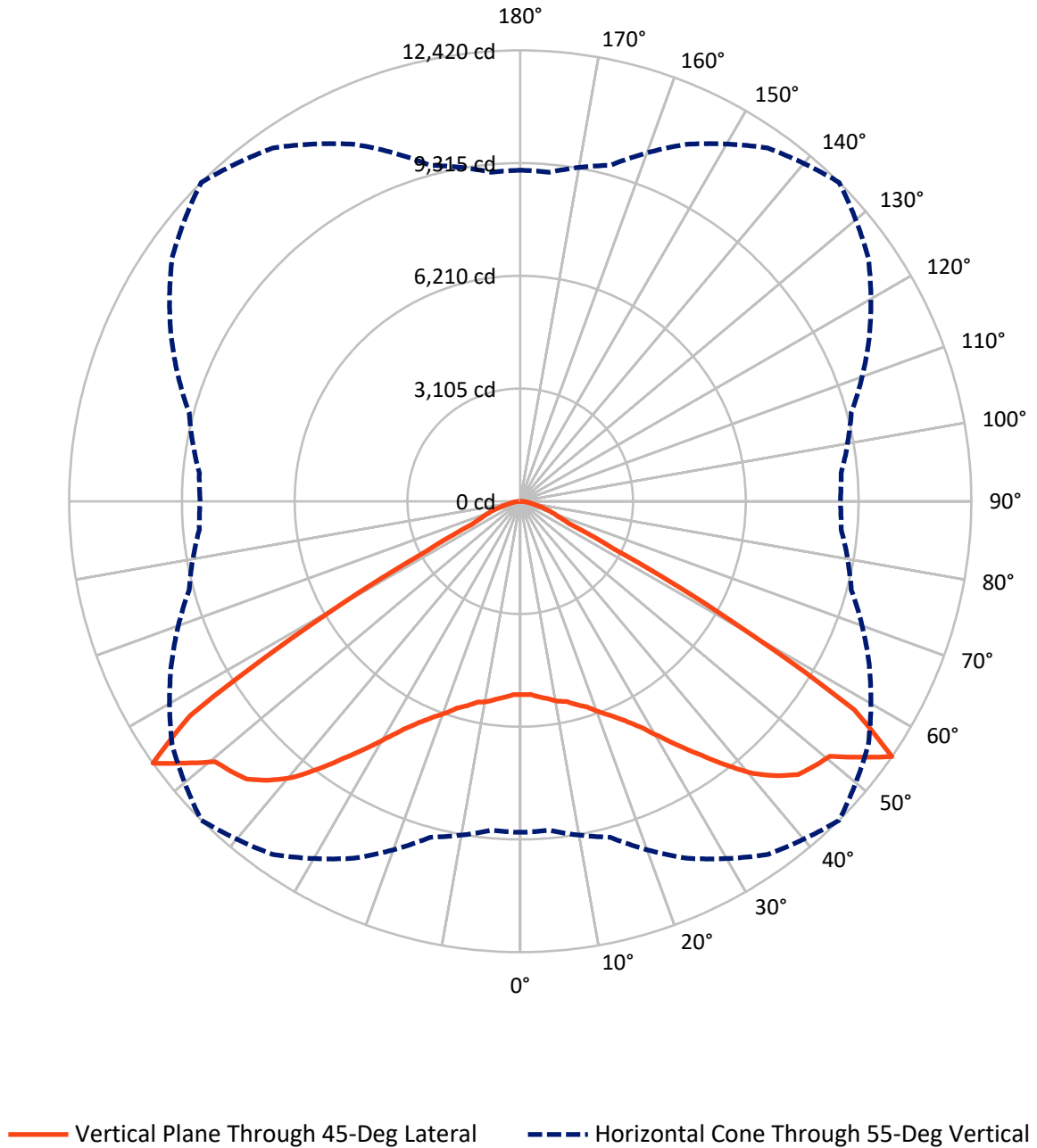
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	14591.5	0.0	14591.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14591.5	0.0	14591.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29183.0	0.0	29183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.5	1.8
10°-20°	1649.3	5.7
20°-30°	3075.4	10.5
30°-40°	5149.3	17.6
40°-50°	8012.7	27.5
50°-60°	8319.7	28.5
60°-70°	1764.3	6.0
70°-80°	581.1	2.0
80°-90°	110.7	0.4
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°	29183.0	100.0
0°-180°	29183.0	100.0

Coefficient of Utilization

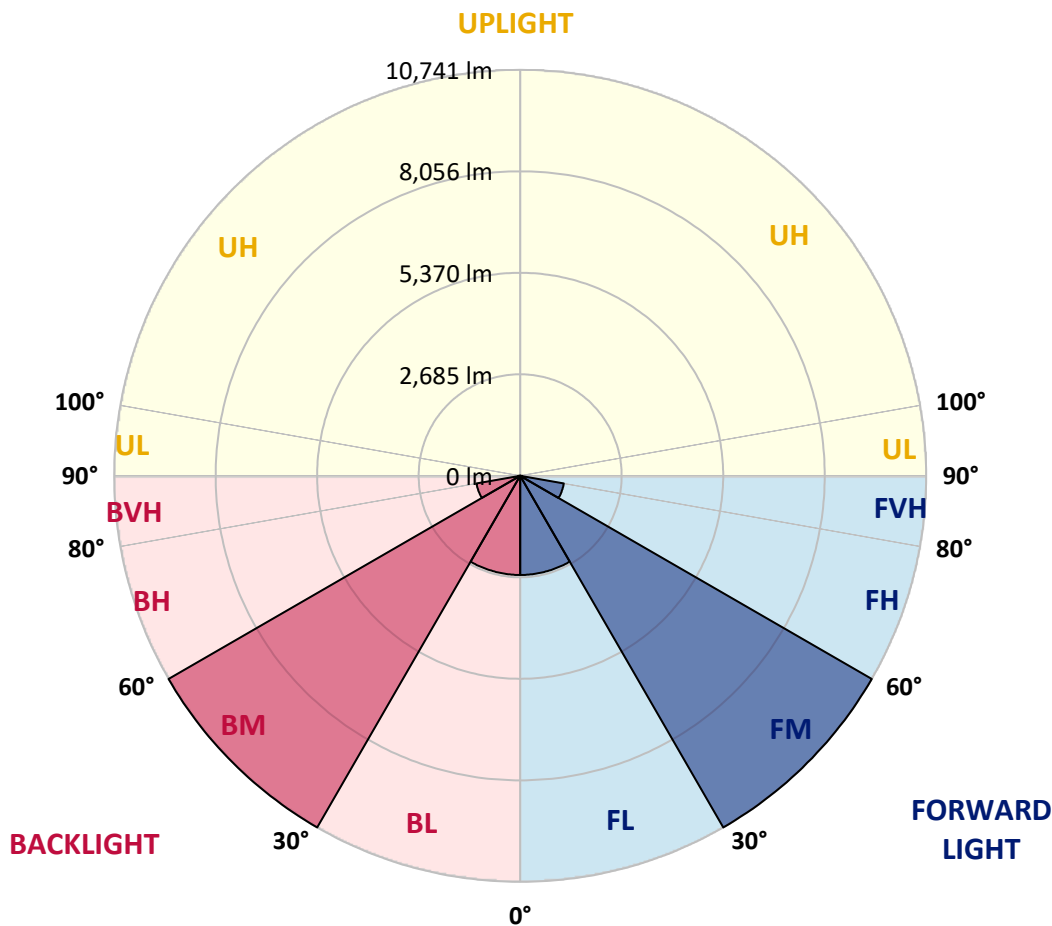


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2622.6	9.0			
FM (30°-60°)	10740.8	36.8			
FH (60°-80°)	1172.7	4.0			G1/1800
FVH (80°-90°)	55.3	0.2			G1/100
BL (0°-30°)	2622.6	9.0	B4/5000		
BM (30°-60°)	10740.8	36.8	B5		
BH (60°-80°)	1172.7	4.0	B3/2500		G1/1800
BVH (80°-90°)	55.3	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°	5328.4	5328.4	5328.4	5328.4	5328.4	5328.4	5328.4	5328.4	5328.4	5328.4	5328.4
2.5°	5391.9	5367.2	5324.9	5356.6	5381.3	5328.4	5349.5	5360.1	5353.1	5324.9	5335.4
5°	5469.4	5455.3	5420.1	5444.8	5413.0	5413.0	5391.9	5363.6	5406.0	5398.9	5416.5
7.5°	5469.4	5451.8	5522.3	5476.5	5490.6	5490.6	5455.3	5427.1	5448.3	5416.5	5398.9
10°	5578.8	5603.4	5571.7	5582.3	5575.2	5599.9	5547.0	5529.4	5511.8	5501.2	5480.0
12.5°	5709.2	5691.6	5702.2	5695.1	5719.8	5656.3	5624.6	5585.8	5617.5	5571.7	5603.4
15°	5815.0	5804.4	5815.0	5843.2	5818.5	5815.0	5758.6	5719.8	5670.4	5681.0	5631.7
17.5°	5959.6	5949.0	5952.6	5977.2	5973.7	5956.1	5913.8	5839.7	5822.1	5793.9	5762.1
20°	6174.7	6157.1	6150.0	6160.6	6178.2	6192.3	6107.7	6079.5	6019.6	5973.7	5920.8
22.5°	6358.1	6351.0	6379.2	6333.4	6372.2	6414.5	6333.4	6319.3	6171.2	6146.5	6090.1
25°	6612.0	6601.4	6583.8	6650.8	6696.6	6693.1	6615.5	6537.9	6425.1	6396.9	6396.9
27.5°	6880.0	6820.0	6911.7	6929.4	7010.5	7035.2	6968.2	6855.3	6749.5	6689.6	6703.7
30°	7215.0	7158.6	7179.7	7306.7	7412.5	7504.2	7334.9	7169.2	7021.0	6915.3	6897.6
32.5°	7550.0	7493.6	7557.1	7680.5	7892.1	8029.6	7863.9	7574.7	7401.9	7246.7	7278.5
35°	7821.5	7863.9	7966.1	8153.0	8371.7	8593.8	8329.3	8107.2	7860.3	7687.5	7712.2
37.5°	8258.8	8389.3	8470.4	8685.5	8995.8	9225.0	8950.0	8660.8	8396.3	8170.7	8093.1
40°	8830.1	8918.2	9009.9	9263.8	9630.6	9859.8	9598.8	9221.5	8960.6	8727.8	8717.2
42.5°	9457.8	9542.4	9637.6	9948.0	10166.6	10339.4	10099.6	9898.6	9609.4	9426.0	9415.5
45°	10187.8	10127.8	10233.6	10438.1	10621.5	10734.3	10579.2	10480.4	10272.4	10103.1	10085.5
47.5°	10674.4	10621.5	10811.9	10995.3	11023.5	10900.1	10931.8	11023.5	10804.9	10526.3	10614.4
50°	10956.5	10956.5	11083.5	11252.7	11199.8	11041.1	11291.5	11298.6	11079.9	10833.1	10833.1
52.5°	10466.3	10575.7	10935.3	11489.0	11665.3	11711.2	11654.7	11414.9	10843.7	10339.4	10314.7
55°	9119.3	9094.6	9581.2	10850.7	11876.9	12420.0	11700.6	10596.8	9436.6	8868.9	8812.5
57.5°	5931.4	5959.6	6686.0	7980.2	9831.6	10843.7	9630.6	8079.0	6686.0	5903.2	5977.2
60°	2669.5	2764.7	3205.5	4171.7	5762.1	6587.3	5776.2	4383.3	3364.2	2919.9	2958.6
62.5°	1534.0	1551.6	1569.2	1861.9	2454.4	2902.2	2549.6	1967.7	1735.0	1657.4	1657.4
65°	1294.2	1283.6	1287.1	1311.8	1375.3	1467.0	1428.2	1375.3	1382.3	1375.3	1364.7
67.5°	1100.2	1114.3	1103.8	1121.4	1124.9	1139.0	1163.7	1184.9	1188.4	1195.4	1188.4
70°	902.8	906.3	913.3	927.4	931.0	941.5	976.8	994.4	1005.0	1005.0	1019.1
72.5°	691.2	687.6	694.7	708.8	726.4	730.0	761.7	786.4	800.5	782.9	786.4
75°	454.9	458.4	469.0	479.6	504.3	529.0	539.5	564.2	567.7	574.8	557.2
77.5°	271.5	278.6	289.2	310.3	331.5	352.6	377.3	395.0	402.0	395.0	373.8
80°	176.3	176.3	190.4	208.1	232.7	250.4	264.5	278.6	289.2	278.6	271.5
82.5°	109.3	109.3	127.0	148.1	165.7	176.3	197.5	215.1	225.7	218.6	208.1
85°	56.4	59.9	74.1	91.7	105.8	112.8	109.3	98.7	88.2	84.6	77.6
87.5°	17.6	17.6	21.2	21.2	17.6	17.6	21.2	17.6	21.2	21.2	21.2
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)