

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: P532520

Luminaire Tested: **GALN-SA7D-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532520
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-SA7D-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 34708 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

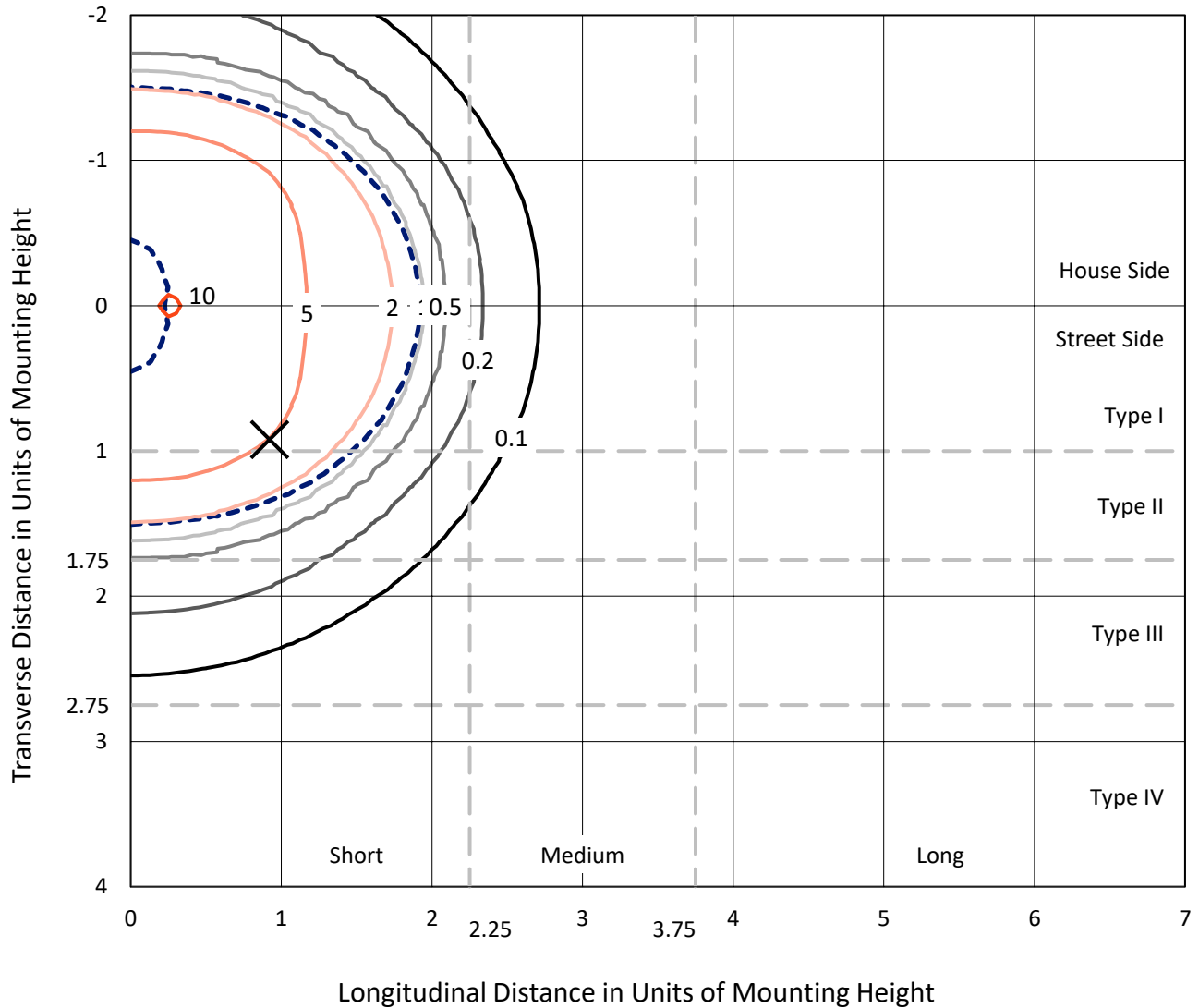
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

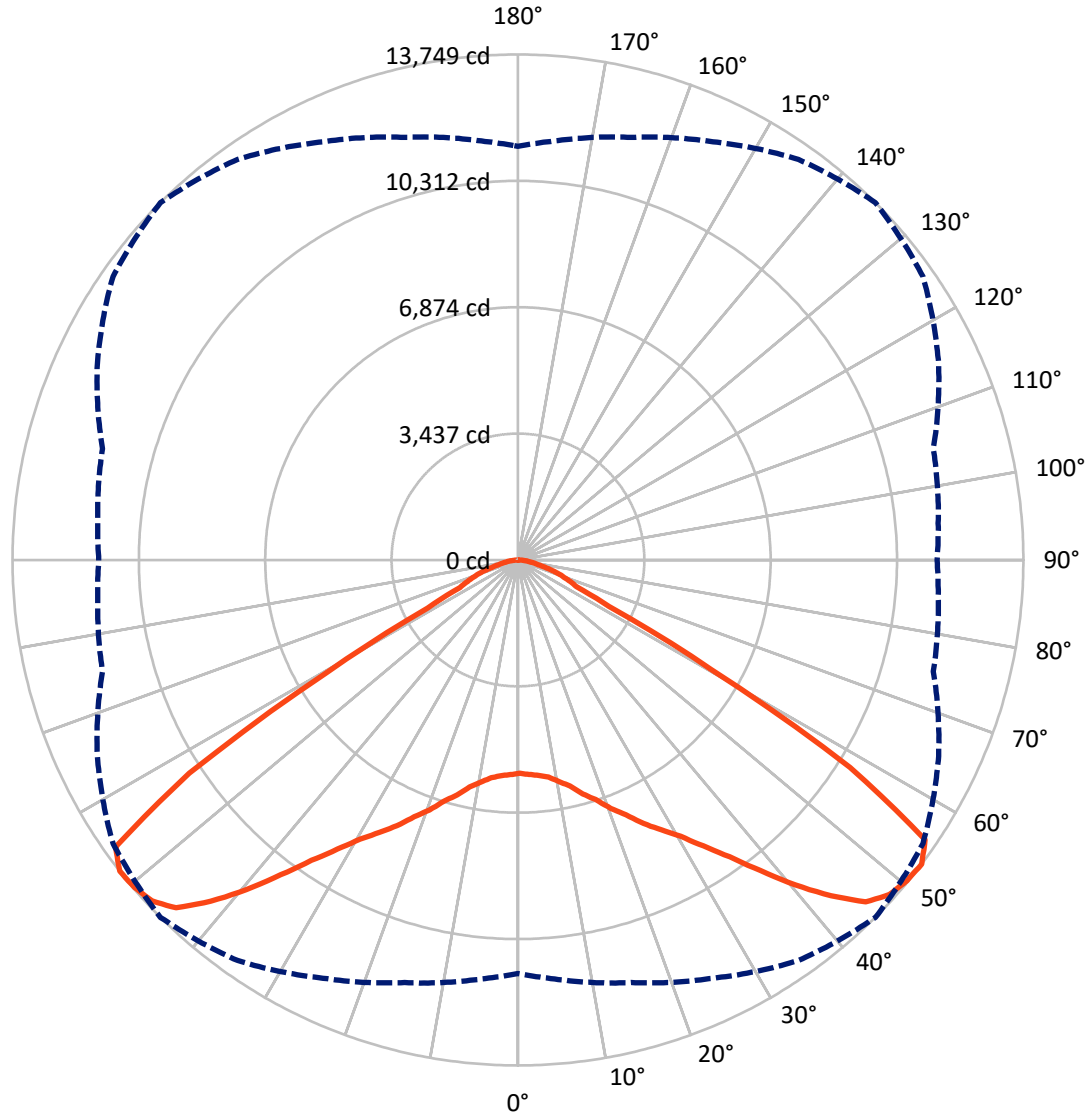
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	17354.0	0.0	17354.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17354.0	0.0	17354.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34708.0	0.0	34708.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.0	1.6
10°-20°	1873.0	5.4
20°-30°	3566.0	10.3
30°-40°	6123.1	17.6
40°-50°	9411.4	27.1
50°-60°	9557.1	27.5
60°-70°	2663.4	7.7
70°-80°	785.7	2.3
80°-90°	158.2	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°	34708.0	100.0
0°-180°	34708.0	100.0



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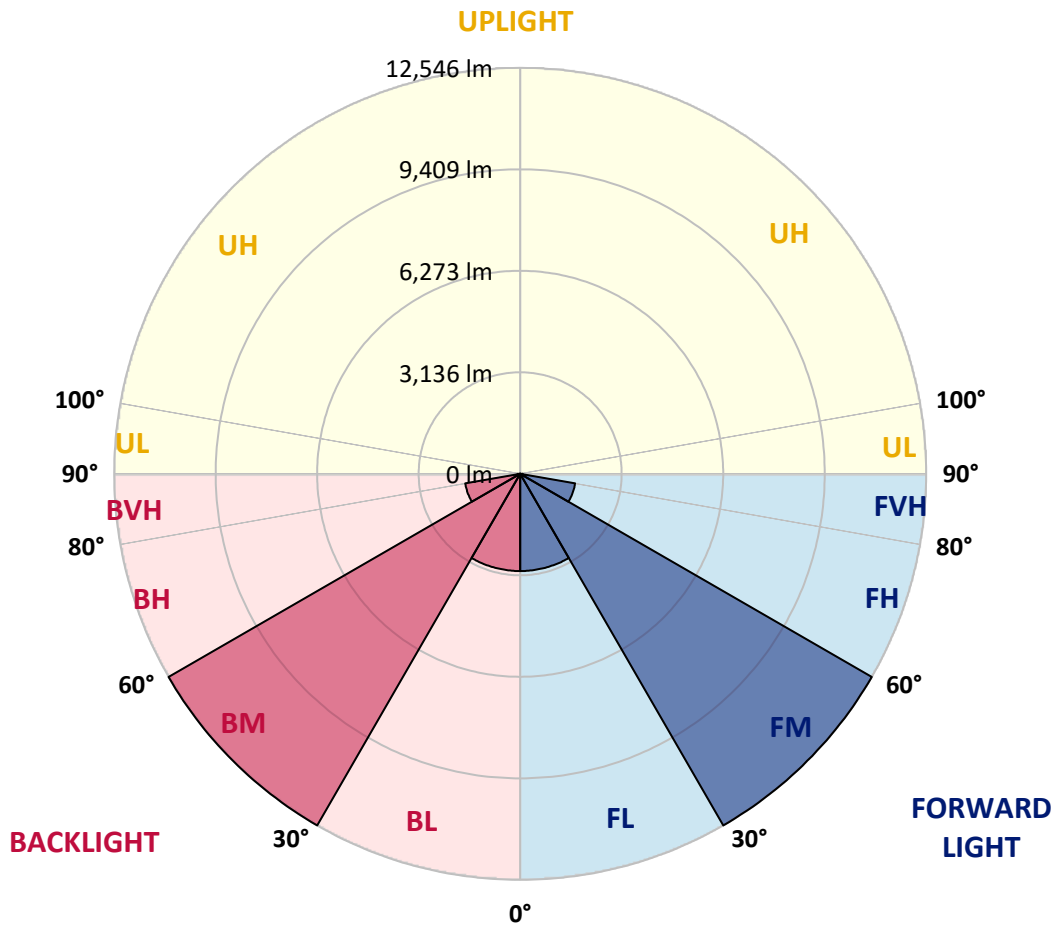
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3004.5	8.7			
FM (30°-60°)	12545.8	36.1			
FH (60°-80°)	1724.6	5.0			G1/1800
FVH (80°-90°)	79.1	0.2			G1/100
BL (0°-30°)	3004.5	8.7	B4/5000		
BM (30°-60°)	12545.8	36.1	B5		
BH (60°-80°)	1724.6	5.0	B3/2500		G1/1800
BVH (80°-90°)	79.1	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°	5801.9	5801.9	5801.9	5801.9	5801.9	5801.9	5801.9	5801.9	5801.9	5801.9	5801.9
2.5°	5814.8	5754.5	5776.1	5789.0	5845.0	5840.7	5827.7	5845.0	5862.2	5866.5	5857.9
5°	5810.5	5767.4	5784.7	5797.6	5853.6	5883.7	5875.1	5948.3	6000.0	5987.1	6051.7
7.5°	5776.1	5801.9	5780.4	5845.0	5892.4	5965.6	6043.1	6112.0	6176.6	6249.9	6262.8
10°	5853.6	5853.6	5892.4	5944.0	6069.0	6124.9	6236.9	6336.0	6460.9	6547.1	6512.6
12.5°	5935.4	5948.3	5948.3	6081.9	6185.2	6310.2	6413.5	6547.1	6723.7	6827.0	6878.7
15°	6017.3	6025.9	6069.0	6249.9	6404.9	6603.1	6697.8	6818.4	6917.5	7111.3	7115.6
17.5°	6090.5	6137.9	6267.1	6469.5	6663.4	6852.9	7003.6	7128.5	7214.7	7292.2	7275.0
20°	6366.2	6400.6	6534.1	6736.6	7025.2	7210.4	7262.1	7283.6	7339.6	7494.7	7447.3
22.5°	6633.2	6646.1	6771.0	7081.2	7283.6	7529.1	7585.1	7572.2	7593.7	7632.5	7701.4
25°	6908.9	6930.4	7102.7	7365.4	7649.7	7942.6	7990.0	7890.9	7860.8	7903.8	7908.2
27.5°	7262.1	7266.4	7486.0	7714.3	8037.4	8313.0	8386.3	8308.7	8166.6	8201.1	8257.0
30°	7710.0	7679.9	7899.5	8226.9	8567.2	8722.2	8847.1	8808.4	8653.3	8623.2	8575.8
32.5°	8226.9	8235.5	8433.6	8791.1	9015.1	9273.6	9407.1	9342.5	9243.4	9191.7	9221.9
35°	8954.8	8993.6	9127.1	9424.3	9786.1	9915.3	10126.4	9988.6	9730.1	9794.7	9850.7
37.5°	9553.5	9665.5	9915.3	10268.5	10483.9	10720.8	10798.3	10613.1	10423.6	10346.1	10531.3
40°	10471.0	10436.5	10712.2	11065.4	11384.1	11621.0	11522.0	11336.7	10867.3	10871.6	10923.2
42.5°	11259.2	11276.4	11487.5	11909.6	12344.7	12491.1	12176.7	11724.4	11203.2	11147.2	11259.2
45°	11922.5	11991.5	12112.1	12676.3	13102.7	13262.1	12680.6	12146.5	11448.7	11216.1	11401.4
47.5°	12159.4	12271.4	12534.2	13051.0	13473.2	13602.4	13137.2	12370.5	11677.0	11298.0	11397.0
50°	12193.9	12155.1	12585.9	13059.7	13430.1	13710.1	13300.9	12534.2	11621.0	11422.9	11392.7
52.5°	11250.6	11440.1	11901.0	12551.4	13300.9	13748.8	13447.3	12624.6	11698.6	11474.6	11401.4
55°	9105.6	8881.6	9721.5	10815.6	12193.9	13438.7	13395.6	12672.0	11745.9	11560.7	11461.7
57.5°	5082.6	5147.2	5621.0	6809.8	8588.7	10656.2	11909.6	12172.4	11724.4	11616.7	11668.4
60°	2351.8	2373.3	2575.8	3131.4	4234.1	6043.1	7692.8	9368.3	10139.3	10294.4	10294.4
62.5°	1753.1	1744.4	1796.1	1895.2	2127.8	2778.2	3708.6	5039.5	6099.1	6840.0	7033.8
65°	1585.1	1580.8	1606.6	1641.1	1658.3	1748.8	1955.5	2364.7	2709.3	2907.4	2873.0
67.5°	1386.9	1382.6	1391.2	1412.8	1442.9	1490.3	1542.0	1628.1	1748.8	1740.1	1718.6
70°	1119.9	1119.9	1132.8	1150.0	1184.5	1240.5	1300.8	1361.1	1464.5	1486.0	1481.7
72.5°	827.0	814.1	839.9	874.4	908.8	977.8	1042.4	1098.4	1171.6	1193.1	1184.5
75°	525.5	534.1	551.3	590.1	650.4	697.8	766.7	814.1	861.5	878.7	883.0
77.5°	292.9	301.5	331.7	379.0	439.3	491.0	551.3	590.1	620.2	624.6	628.9
80°	176.6	180.9	211.1	254.1	305.8	361.8	409.2	448.0	473.8	460.9	456.6
82.5°	107.7	112.0	137.8	176.6	219.7	262.7	314.4	348.9	374.7	357.5	340.3
85°	56.0	60.3	81.8	107.7	142.1	163.7	163.7	146.4	142.1	133.5	129.2
87.5°	17.2	17.2	21.5	25.8	21.5	25.8	30.2	34.5	34.5	38.8	34.5
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)