

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: P532512

Luminaire Tested: **GALN-SA7D-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34962 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

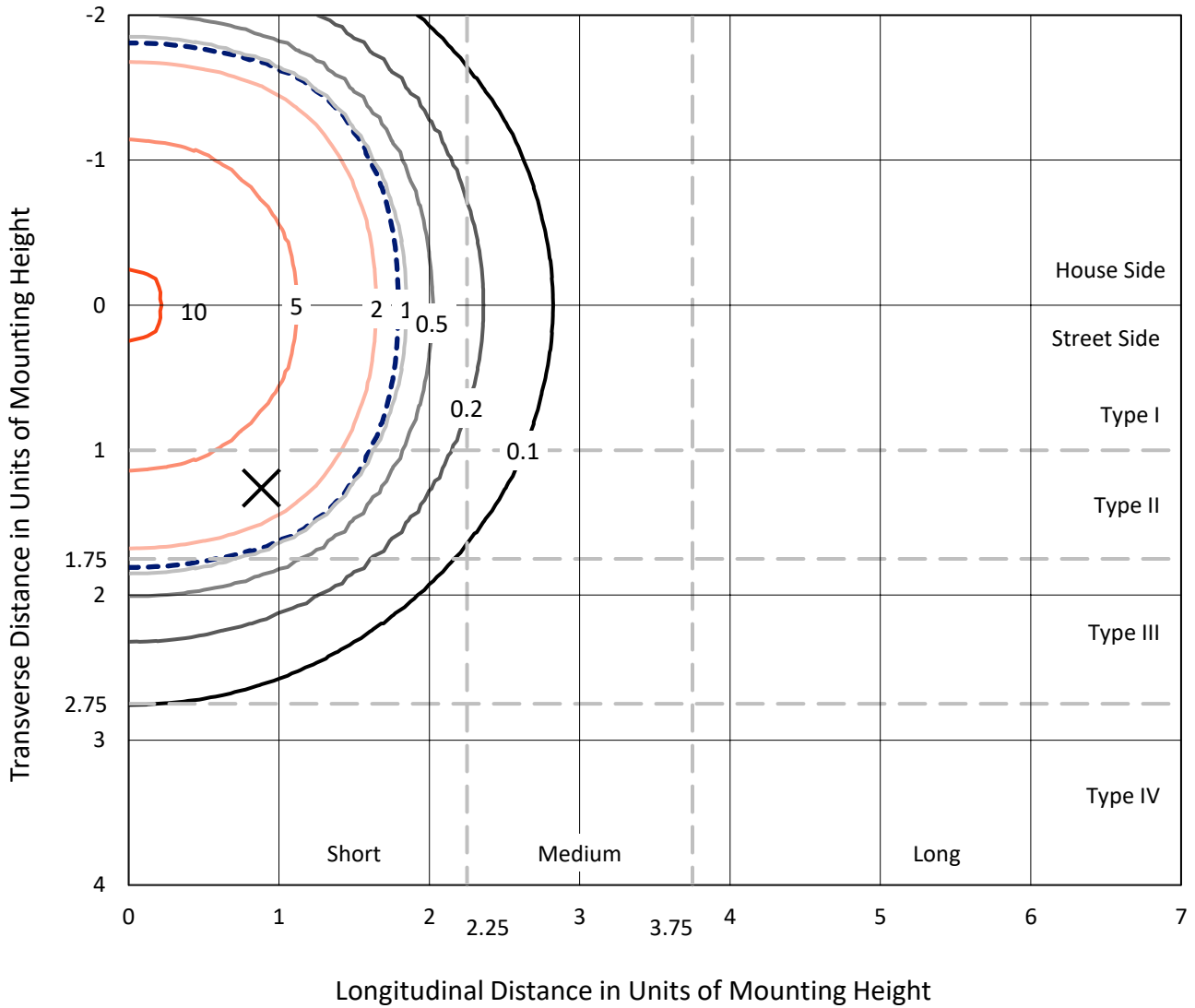
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

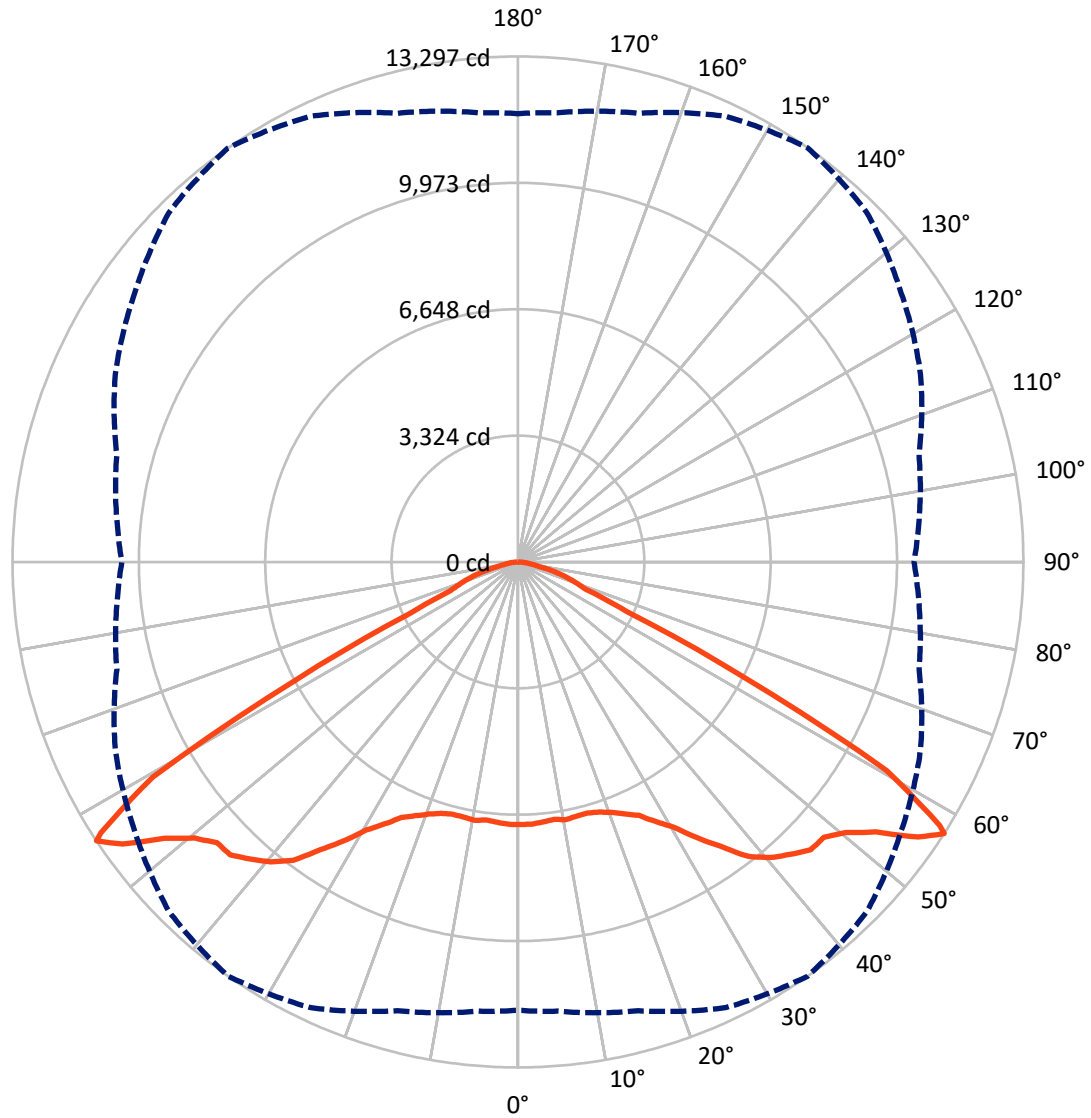
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17481.0	0.0	17481.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17481.0	0.0	17481.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34962.0	0.0	34962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.6	1.9
10°-20°	1938.7	5.5
20°-30°	3386.0	9.7
30°-40°	5548.0	15.9
40°-50°	8134.7	23.3
50°-60°	10246.3	29.3
60°-70°	3853.5	11.0
70°-80°	1024.6	2.9
80°-90°	175.7	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°	34962.0	100.0
0°-180°	34962.0	100.0

Coefficient of Utilization



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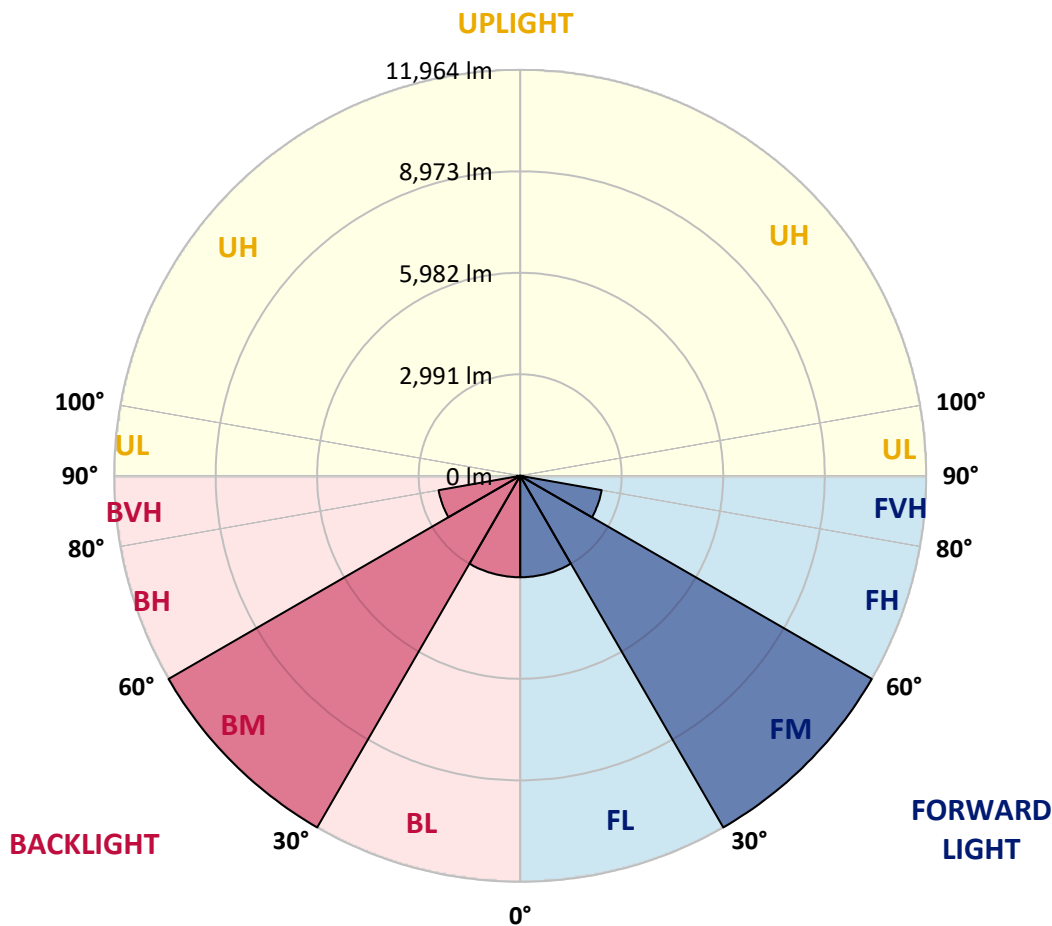
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2989.6	8.6			
FM (30°-60°)	11964.5	34.2			
FH (60°-80°)	2439.1	7.0			G2/5000
FVH (80°-90°)	87.8	0.3			G1/100
BL (0°-30°)	2989.6	8.6	B4/5000		
BM (30°-60°)	11964.5	34.2	B5		
BH (60°-80°)	2439.1	7.0	B3/2500		G2/5000
BVH (80°-90°)	87.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7
2.5°	6870.3	6939.2	6909.0	6891.8	6904.7	6883.2	6848.7	6887.5	6878.9	6844.4	6831.5
5°	6853.0	6904.7	6870.3	6904.7	6870.3	6930.6	6913.4	6848.7	6926.3	6853.0	6878.9
7.5°	6840.1	6857.4	6866.0	6848.7	6835.8	6909.0	6870.3	6840.1	6797.1	6784.1	6805.7
10°	6810.0	6853.0	6788.4	6874.6	6891.8	6840.1	6840.1	6784.1	6749.7	6728.1	6801.4
12.5°	6887.5	6814.3	6805.7	6848.7	6861.7	6883.2	6822.9	6792.7	6728.1	6736.7	6723.8
15°	6797.1	6827.2	6831.5	6840.1	6853.0	6904.7	6848.7	6784.1	6758.3	6667.8	6676.4
17.5°	6831.5	6801.4	6831.5	6930.6	6913.4	6952.1	6891.8	6792.7	6732.4	6680.8	6749.7
20°	6891.8	6878.9	6891.8	7012.4	7034.0	7068.4	7016.7	6926.3	6810.0	6749.7	6784.1
22.5°	6956.4	6947.8	6956.4	7072.7	7197.6	7240.7	7189.0	6978.0	6917.7	6805.7	6766.9
25°	7072.7	7081.3	7171.8	7301.0	7382.9	7464.7	7369.9	7219.2	7025.3	6956.4	6874.6
27.5°	7331.2	7352.7	7404.4	7593.9	7736.1	7809.3	7675.8	7469.0	7348.4	7206.3	7184.7
30°	7649.9	7649.9	7740.4	7904.1	8097.9	8209.9	8046.2	7800.7	7654.2	7576.7	7529.3
32.5°	8072.0	8024.7	8059.1	8347.7	8649.2	8744.0	8524.3	8222.8	7990.2	7886.8	7852.4
35°	8433.9	8464.0	8541.5	8851.7	9187.7	9407.3	9062.7	8670.8	8433.9	8339.1	8321.9
37.5°	8903.4	8955.1	8993.8	9420.2	9825.1	9907.0	9575.3	9260.9	8972.3	8894.7	8851.7
40°	9566.7	9532.2	9545.2	9859.6	10225.7	10277.4	9950.1	9726.1	9489.2	9441.8	9441.8
42.5°	10113.7	10075.0	10118.0	10234.3	10514.3	10475.6	10294.6	10131.0	10031.9	9980.2	10031.9
45°	10445.4	10436.8	10514.3	10600.5	10798.6	10669.4	10527.2	10553.1	10458.3	10372.2	10367.9
47.5°	10807.2	10751.2	10846.0	10975.2	10824.5	10764.2	10755.5	10811.5	10781.4	10630.6	10583.2
50°	10983.8	10962.3	11113.1	11263.8	11182.0	11044.1	11074.3	11164.7	10777.1	10574.6	10458.3
52.5°	11457.6	11462.0	11750.5	11832.4	11797.9	11595.5	11660.1	11414.6	10958.0	10673.7	10686.6
55°	12202.8	12172.7	12495.7	12736.9	12775.7	12517.3	12207.1	11862.5	11289.7	11001.1	10914.9
57°	11793.6	11862.5	12220.0	12935.1	13296.9	12991.1	12314.8	11685.9	10923.5	10574.6	10419.6
57.5°	11246.6	11358.6	11978.8	12698.2	13077.2	13051.4	12181.3	11358.6	10678.0	10135.3	10148.2
60°	8240.0	8261.6	8821.5	9963.0	11147.5	11173.4	10113.7	9024.0	8265.9	7675.8	7757.6
62.5°	4346.2	4445.2	4669.2	5586.7	6611.8	6861.7	6219.9	5659.9	5005.2	4557.2	4600.3
65°	2300.1	2287.2	2394.9	2653.3	3157.3	3286.5	3200.4	2756.7	2528.4	2455.2	2459.5
67.5°	1869.4	1890.9	1878.0	1890.9	1925.4	1981.4	1968.5	1985.7	1998.6	2020.2	2015.9
70°	1585.1	1585.1	1593.7	1598.0	1598.0	1623.9	1654.0	1710.0	1714.3	1735.9	1744.5
72.5°	1249.1	1240.5	1253.4	1283.6	1287.9	1309.4	1352.5	1387.0	1399.9	1399.9	1374.1
75°	848.6	857.2	874.4	900.2	926.1	964.9	999.3	1020.9	1029.5	1016.5	1003.6
77.5°	478.1	486.7	499.7	538.4	568.6	603.0	641.8	663.3	684.9	689.2	663.3
80°	284.3	284.3	305.8	336.0	370.4	404.9	439.4	465.2	473.8	473.8	460.9
82.5°	172.3	176.6	193.8	224.0	254.1	275.7	305.8	327.4	344.6	340.3	331.7
85°	90.5	90.5	107.7	133.5	155.1	176.6	176.6	163.7	155.1	133.5	124.9
87.5°	30.2	25.8	34.5	34.5	30.2	34.5	34.5	38.8	38.8	38.8	38.8
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)