

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: P458456

Luminaire Tested: **GALN-SA9D-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53803 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

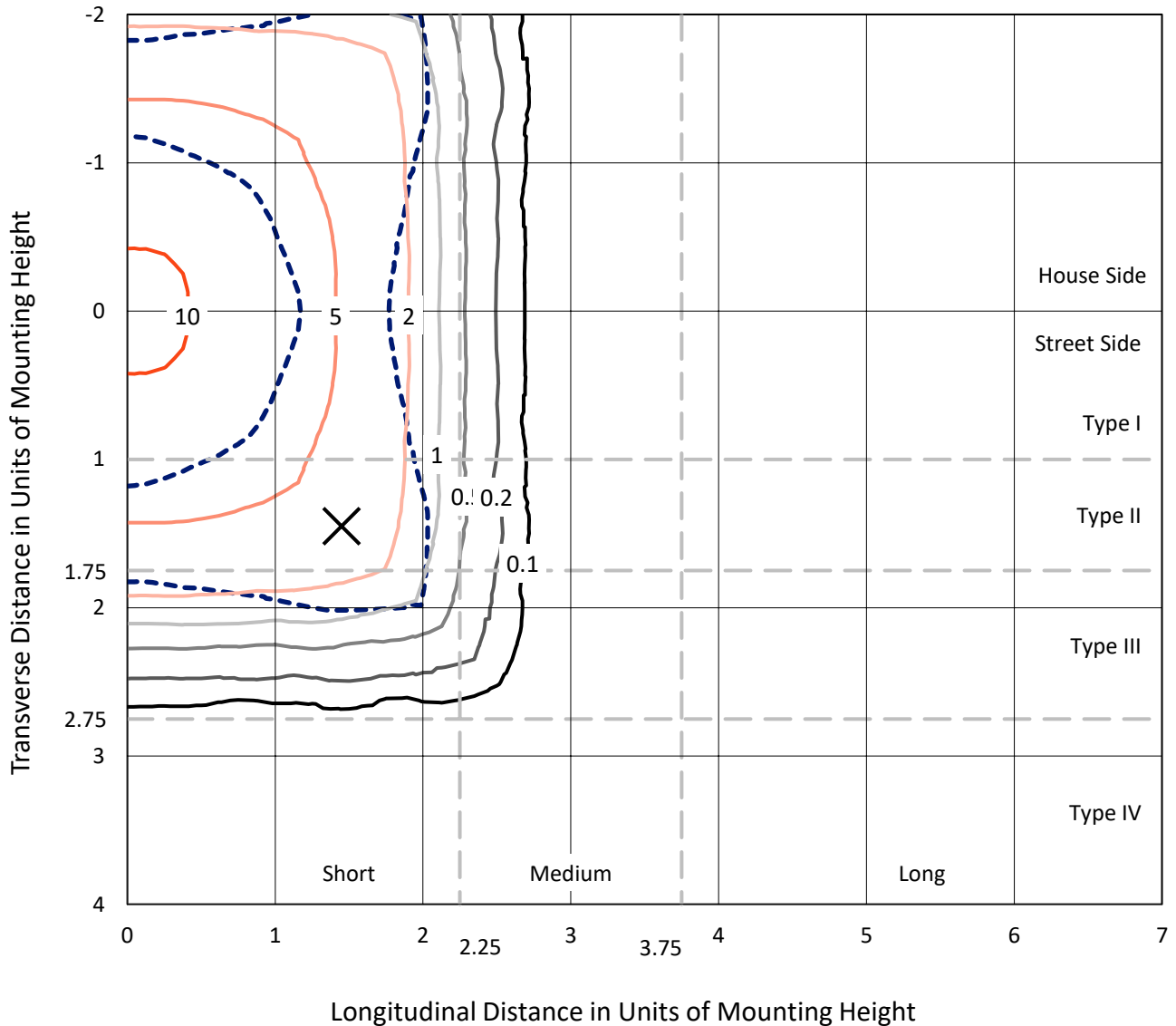
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

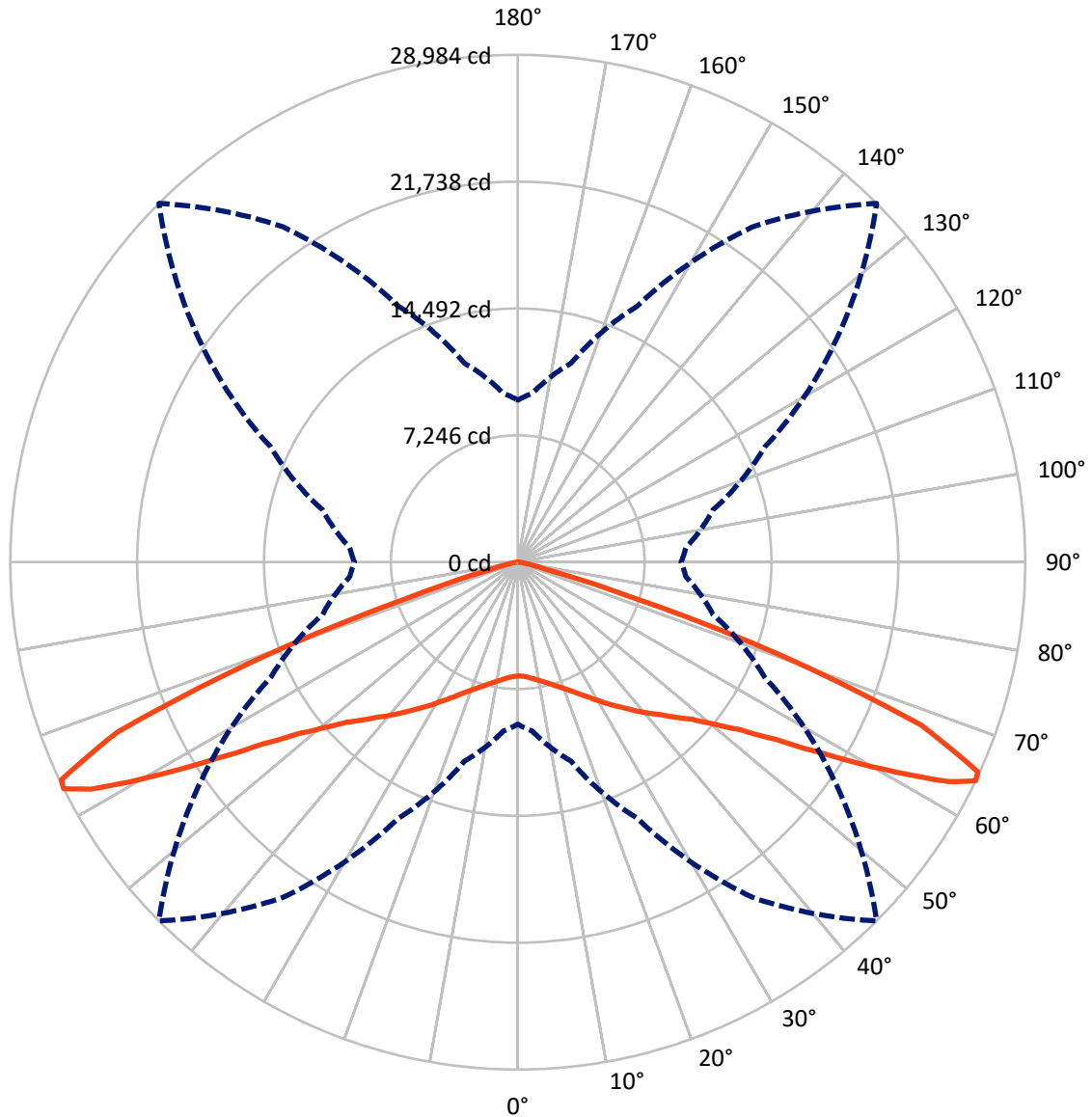
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26901.5	0.0	26901.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26901.5	0.0	26901.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53803.0	0.0	53803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.9	1.2
10°-20°	2060.8	3.8
20°-30°	3894.3	7.2
30°-40°	6449.4	12.0
40°-50°	10068.5	18.7
50°-60°	15565.7	28.9
60°-70°	13422.1	24.9
70°-80°	1521.1	2.8
80°-90°	182.2	0.3
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°	53803.0	100.0
0°-180°	53803.0	100.0

Coefficient of Utilization



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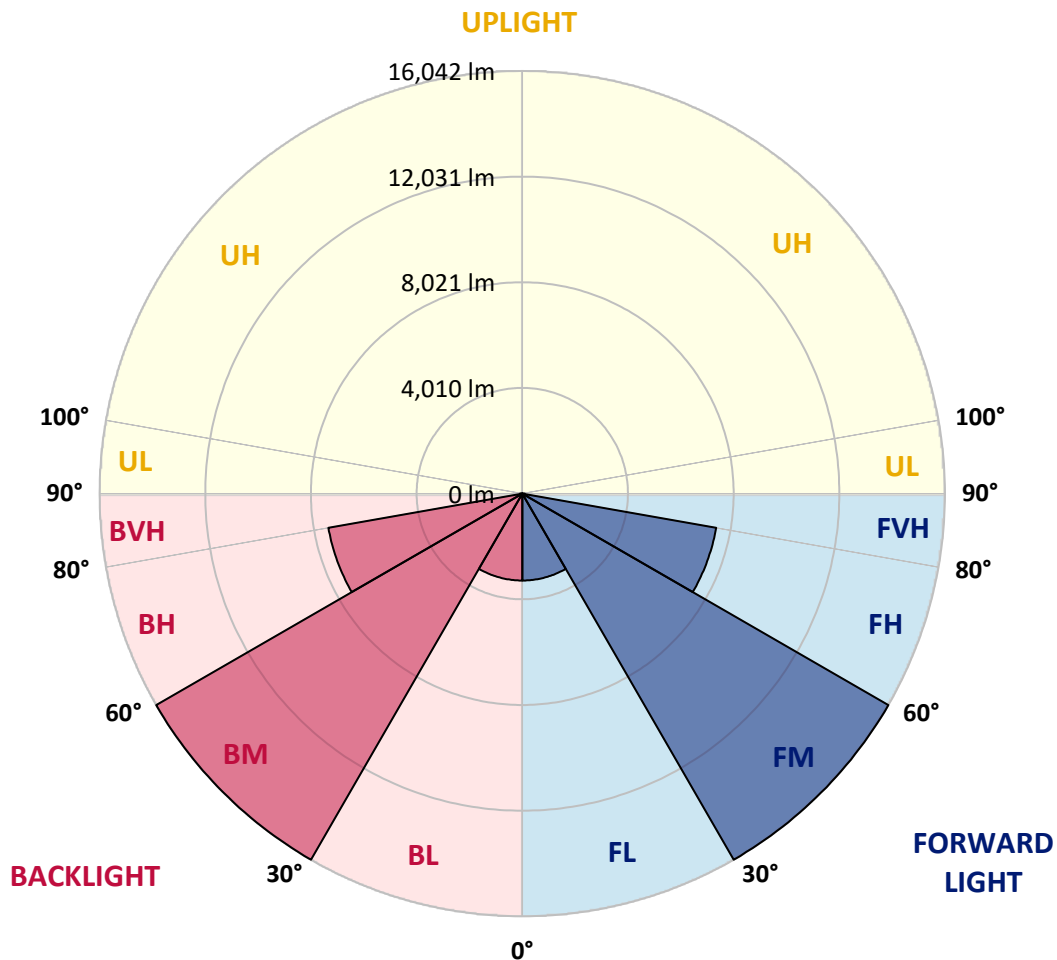
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3297.0	6.1			
FM (30°-60°)	16041.8	29.8			
FH (60°-80°)	7471.6	13.9			G3/7500
FVH (80°-90°)	91.1	0.2			G1/100
BL (0°-30°)	3297.0	6.1	B4/5000		
BM (30°-60°)	16041.8	29.8	B5		
BH (60°-80°)	7471.6	13.9	B5		G3/7500
BVH (80°-90°)	91.1	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0
2.5°	6528.6	6542.9	6531.5	6528.6	6525.8	6525.8	6525.8	6528.6	6540.0	6548.6	6542.9
5°	6611.3	6622.7	6617.0	6614.1	6611.3	6614.1	6608.4	6605.6	6614.1	6614.1	6611.3
7.5°	6713.9	6728.1	6722.4	6728.1	6731.0	6733.8	6719.6	6708.2	6705.3	6713.9	6708.2
10°	6853.5	6864.9	6867.8	6870.6	6876.3	6873.5	6856.4	6836.4	6833.6	6830.7	6827.9
12.5°	7010.2	7018.8	7021.6	7033.0	7041.6	7044.4	7024.5	7007.4	6978.9	6984.6	6973.2
15°	7186.9	7204.0	7201.2	7218.3	7241.1	7246.8	7226.8	7198.3	7172.7	7158.4	7149.9
17.5°	7403.5	7414.9	7409.2	7426.3	7454.8	7469.0	7451.9	7414.9	7389.3	7357.9	7340.8
20°	7660.0	7679.9	7685.6	7685.6	7711.3	7725.5	7699.9	7688.5	7648.6	7625.8	7611.5
22.5°	7950.6	7959.2	7976.3	7993.4	8019.0	8013.3	8004.8	7987.7	7950.6	7930.7	7907.9
25°	8278.4	8286.9	8329.6	8366.7	8375.2	8369.5	8358.1	8349.6	8315.4	8269.8	8252.7
27.5°	8660.2	8677.3	8734.3	8768.5	8768.5	8771.4	8748.6	8777.1	8703.0	8648.8	8643.1
30°	9139.0	9150.4	9198.8	9233.0	9215.9	9201.7	9196.0	9224.5	9144.7	9047.8	9025.0
32.5°	9612.0	9651.9	9694.7	9768.7	9708.9	9683.3	9677.6	9697.5	9606.3	9498.0	9466.7
35°	10119.3	10147.8	10227.5	10290.2	10236.1	10176.3	10201.9	10264.6	10156.3	10011.0	10005.3
37.5°	10680.6	10706.3	10808.9	10874.4	10834.5	10731.9	10774.7	10848.8	10740.5	10561.0	10523.9
40°	11264.8	11319.0	11447.2	11515.6	11450.1	11313.3	11393.1	11472.9	11376.0	11167.9	11085.3
42.5°	11920.3	12005.8	12191.0	12225.2	12099.8	11914.6	12054.2	12182.4	12114.0	11874.7	11843.3
45°	12686.8	12738.1	12966.1	13040.2	12866.4	12635.5	12809.4	13043.0	12991.7	12715.3	12655.5
47.5°	13544.6	13593.0	13829.6	13940.7	13721.3	13410.7	13724.1	14029.0	13997.7	13701.3	13672.8
50°	14559.1	14570.5	14898.2	15023.6	14804.2	14536.3	14815.5	15194.6	15069.2	14690.2	14684.5
52.5°	15670.5	15684.7	16097.9	16340.1	16217.6	15915.5	16246.1	16476.9	16157.8	15661.9	15624.9
55°	16633.7	16704.9	17269.1	17913.2	18081.3	17861.9	17961.6	17853.3	17066.8	16371.5	16263.2
57.5°	17026.9	17166.5	18024.3	19226.9	20321.2	20646.0	19876.6	18845.0	17428.7	16445.6	16340.1
60°	16066.6	16217.6	17548.4	19831.0	22623.7	24034.3	21871.4	19013.1	16605.2	15223.1	15057.8
62.5°	12866.4	12909.1	14866.8	18409.0	23965.9	27619.2	22712.0	17579.8	14208.6	12330.6	12265.1
64°	9258.6	9697.5	11772.1	16140.7	23378.9	28984.2	22227.6	15570.7	11541.3	9640.5	9332.7
65°	6924.8	7044.4	9489.5	13784.0	22344.4	28881.6	21287.2	13650.0	9557.9	7377.9	7035.9
67.5°	2616.0	2630.3	3502.3	6870.6	15907.0	24849.3	16246.1	7426.3	4026.6	2912.4	2806.9
70°	1085.7	1105.7	1285.2	2311.1	6836.4	15955.4	7833.8	2678.7	1473.3	1194.0	1176.9
72.5°	795.1	806.5	860.6	1025.9	2103.1	6551.4	2576.1	1137.0	863.5	772.3	763.7
75°	624.1	629.8	669.7	755.2	980.3	1815.3	1071.5	780.8	658.3	592.7	587.0
77.5°	475.9	490.1	518.6	575.6	658.3	860.6	709.6	584.2	507.2	453.1	444.6
80°	327.7	344.8	399.0	421.8	441.7	558.5	484.4	441.7	396.1	330.6	310.6
82.5°	202.3	213.7	267.9	287.8	279.3	313.5	310.6	316.3	282.1	205.2	190.9
85°	105.4	111.1	145.3	151.0	139.6	128.2	159.6	185.2	173.8	116.8	114.0
87.5°	22.8	25.6	31.3	28.5	31.3	31.3	39.9	59.8	62.7	39.9	37.0
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)