

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: P534386

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534386
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-SA9D-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 46436 lumens
Efficiency: N/A
Efficacy: 84.1 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

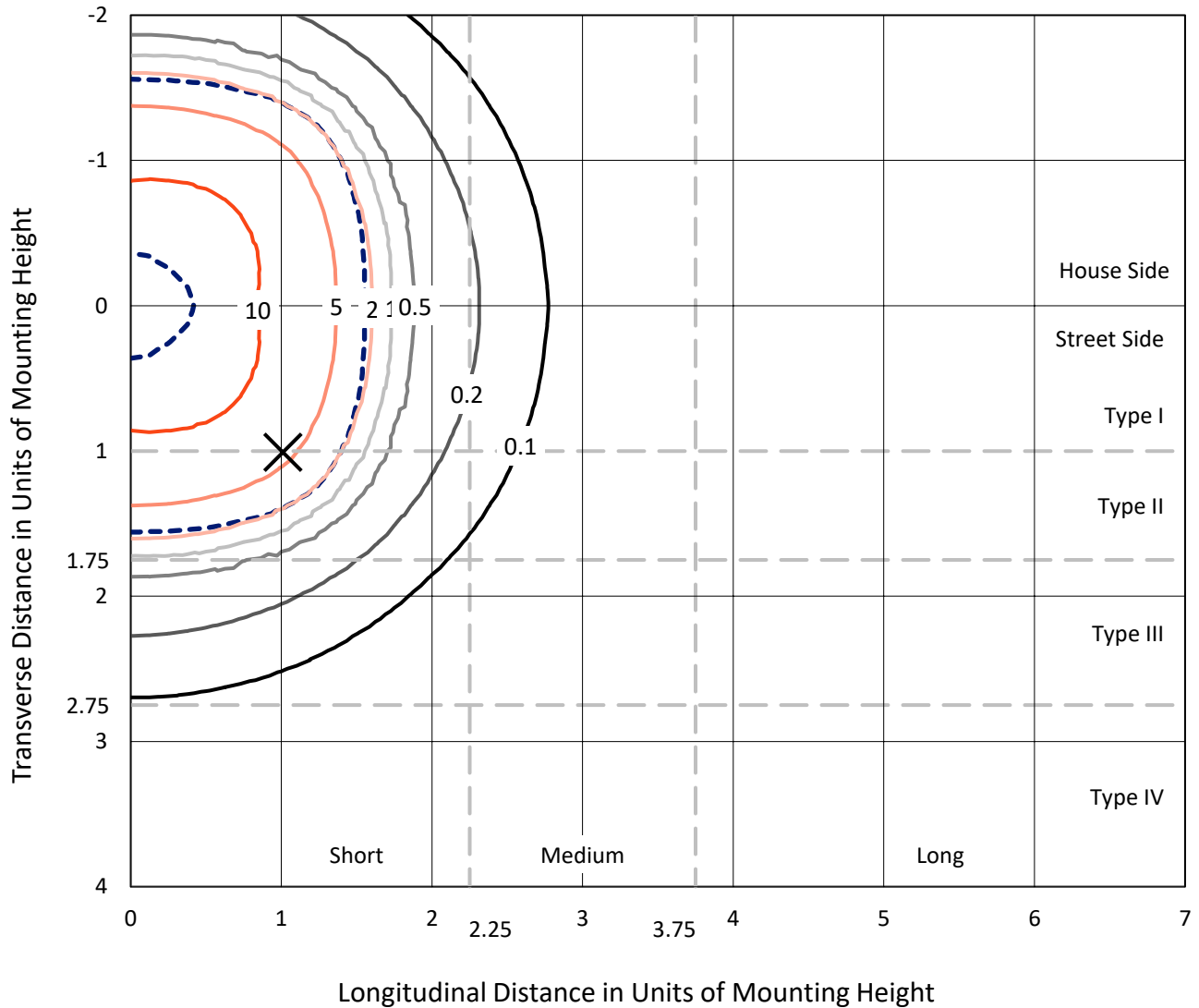
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

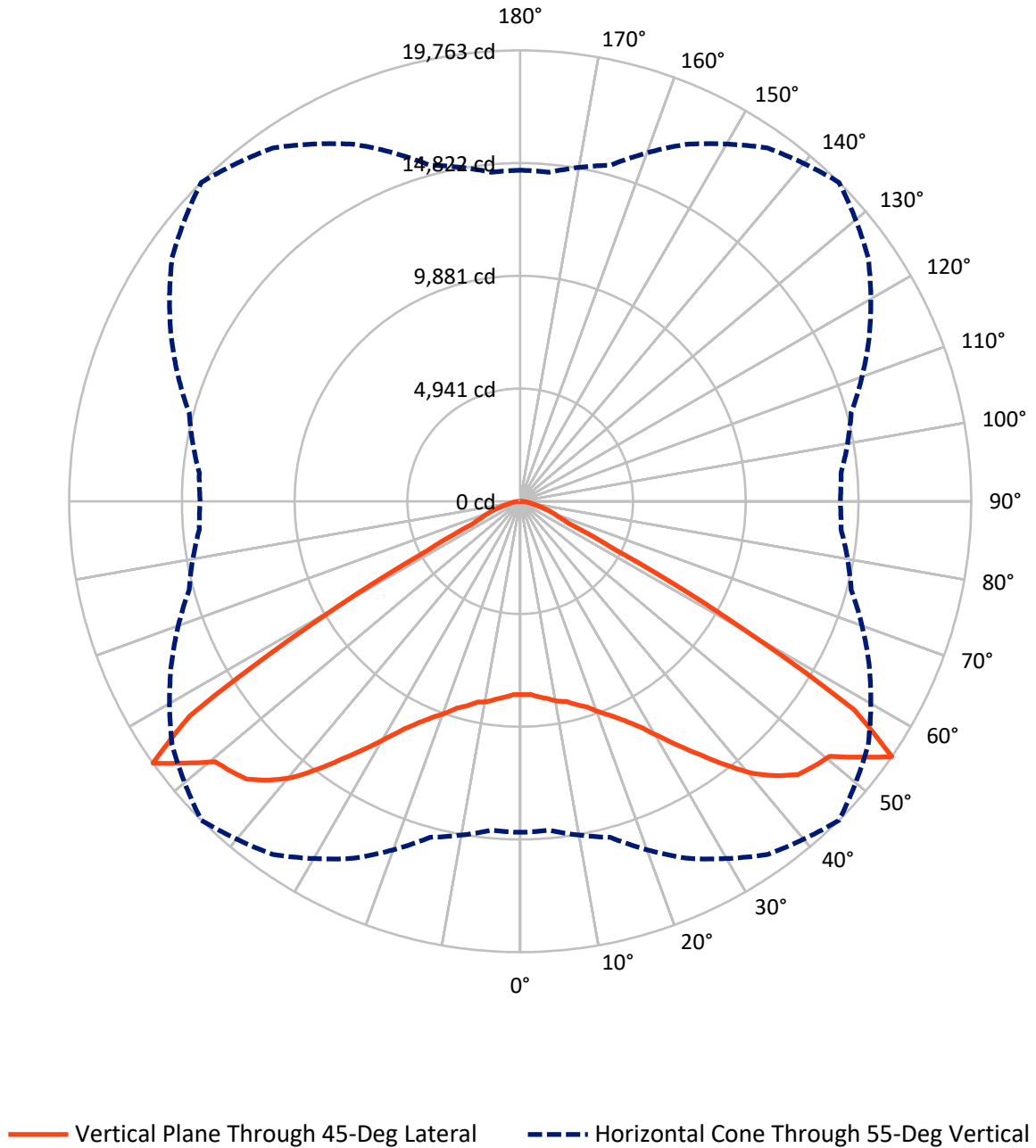
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	23218.0	0.0	23218.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23218.0	0.0	23218.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	46436.0	0.0	46436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.3	1.8
10°-20°	2624.4	5.7
20°-30°	4893.6	10.5
30°-40°	8193.5	17.6
40°-50°	12749.8	27.5
50°-60°	13238.3	28.5
60°-70°	2807.4	6.0
70°-80°	924.6	2.0
80°-90°	176.1	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°	46436.0	100.0
0°-180°	46436.0	100.0

Coefficient of Utilization



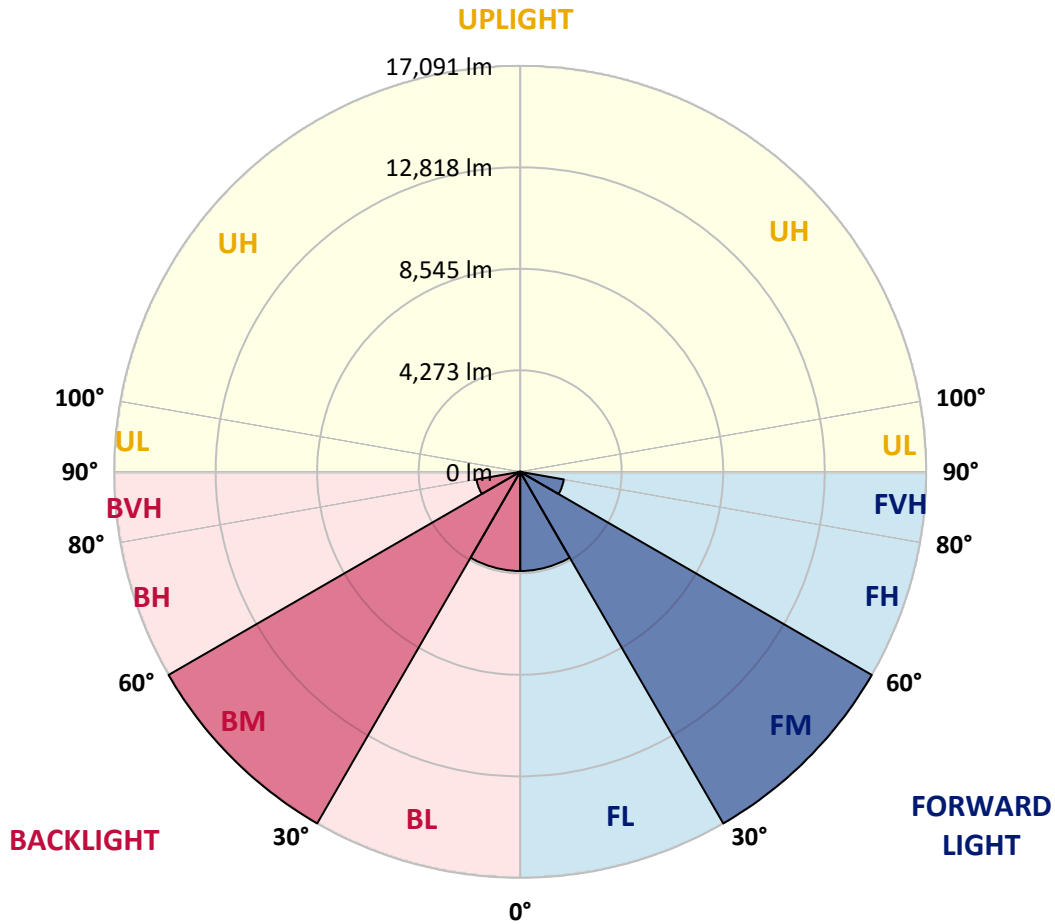
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4173.1	9.0			
FM (30°-60°)	17090.8	36.8			
FH (60°-80°)	1866.0	4.0			G2/5000
FVH (80°-90°)	88.0	0.2			G1/100
BL (0°-30°)	4173.1	9.0	B4/5000		
BM (30°-60°)	17090.8	36.8	B5		
BH (60°-80°)	1866.0	4.0	B3/2500		G2/5000
BVH (80°-90°)	88.0	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8478.5	8478.5	8478.5	8478.5	8478.5	8478.5	8478.5	8478.5	8478.5	8478.5	8478.5
2.5°	8579.5	8540.2	8472.9	8523.4	8562.7	8478.5	8512.2	8529.0	8517.8	8472.9	8489.7
5°	8703.0	8680.5	8624.4	8663.7	8613.2	8613.2	8579.5	8534.6	8602.0	8590.7	8618.8
7.5°	8703.0	8674.9	8787.1	8714.2	8736.6	8736.6	8680.5	8635.6	8669.3	8618.8	8590.7
10°	8876.9	8916.2	8865.7	8882.5	8871.3	8910.6	8826.4	8798.4	8770.3	8753.5	8719.8
12.5°	9084.5	9056.5	9073.3	9062.1	9101.4	9000.4	8949.9	8888.1	8938.6	8865.7	8916.2
15°	9252.9	9236.0	9252.9	9297.8	9258.5	9252.9	9163.1	9101.4	9022.8	9039.6	8961.1
17.5°	9482.9	9466.1	9471.7	9511.0	9505.4	9477.3	9410.0	9292.1	9264.1	9219.2	9168.7
20°	9825.2	9797.2	9785.9	9802.8	9830.8	9853.3	9718.6	9673.7	9578.3	9505.4	9421.2
22.5°	10117.0	10105.8	10150.7	10077.7	10139.4	10206.8	10077.7	10055.3	9819.6	9780.3	9690.5
25°	10521.0	10504.2	10476.1	10582.7	10655.7	10650.1	10526.6	10403.2	10223.6	10178.7	10178.7
27.5°	10947.4	10852.1	10997.9	11026.0	11155.1	11194.3	11087.7	10908.2	10739.8	10644.4	10666.9
30°	11480.5	11390.7	11424.4	11626.4	11794.7	11940.6	11671.3	11407.6	11171.9	11003.6	10975.5
32.5°	12013.6	11923.8	12024.8	12221.2	12557.9	12776.7	12513.0	12052.9	11777.9	11531.0	11581.5
35°	12445.6	12513.0	12675.7	12973.1	13321.0	13674.5	13253.7	12900.1	12507.4	12232.4	12271.7
37.5°	13141.4	13349.0	13478.1	13820.4	14314.2	14678.9	14241.2	13781.1	13360.3	13001.1	12877.7
40°	14050.4	14190.7	14336.6	14740.6	15324.2	15688.9	15273.7	14673.3	14258.1	13887.7	13870.9
42.5°	15049.2	15183.9	15335.4	15829.2	16177.1	16452.0	16070.5	15750.6	15290.5	14998.7	14981.9
45°	16210.8	16115.4	16283.7	16609.1	16900.9	17080.5	16833.6	16676.5	16345.4	16076.1	16048.0
47.5°	16985.1	16900.9	17203.9	17495.7	17540.6	17344.2	17394.7	17540.6	17192.7	16749.4	16889.7
50°	17434.0	17434.0	17636.0	17905.3	17821.2	17568.7	17967.1	17978.3	17630.4	17237.6	17237.6
52.5°	16654.0	16828.0	17400.3	18281.3	18561.8	18634.8	18545.0	18163.4	17254.4	16452.0	16412.8
55°	14510.6	14471.3	15245.6	17265.7	18898.5	19762.6	18618.0	16861.7	15015.6	14112.2	14022.4
57.5°	9438.0	9482.9	10638.8	12698.1	15644.0	17254.4	15324.2	12855.3	10638.8	9393.1	9511.0
60°	4247.7	4399.2	5100.6	6638.0	9168.7	10481.7	9191.1	6974.7	5353.1	4646.1	4707.8
62.5°	2440.9	2468.9	2497.0	2962.7	3905.4	4618.0	4056.9	3131.0	2760.7	2637.3	2637.3
65°	2059.3	2042.5	2048.1	2087.4	2188.4	2334.3	2272.5	2188.4	2199.6	2188.4	2171.5
67.5°	1750.7	1773.1	1756.3	1784.4	1790.0	1812.4	1851.7	1885.4	1891.0	1902.2	1891.0
70°	1436.5	1442.1	1453.3	1475.7	1481.4	1498.2	1554.3	1582.4	1599.2	1599.2	1621.6
72.5°	1099.8	1094.2	1105.4	1127.9	1155.9	1161.5	1212.0	1251.3	1273.7	1245.7	1251.3
75°	723.8	729.5	746.3	763.1	802.4	841.7	858.5	897.8	903.4	914.6	886.6
77.5°	432.1	443.3	460.1	493.8	527.5	561.1	600.4	628.5	639.7	628.5	594.8
80°	280.6	280.6	303.0	331.1	370.3	398.4	420.8	443.3	460.1	443.3	432.1
82.5°	173.9	173.9	202.0	235.7	263.7	280.6	314.2	342.3	359.1	347.9	331.1
85°	89.8	95.4	117.8	145.9	168.3	179.6	173.9	157.1	140.3	134.7	123.4
87.5°	28.1	28.1	33.7	33.7	28.1	28.1	33.7	28.1	33.7	33.7	33.7
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)