

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: P534230

Luminaire Tested: **GALN-SA9D-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534230
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-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 52828 lumens
Efficiency: N/A
Efficacy: 95.7 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

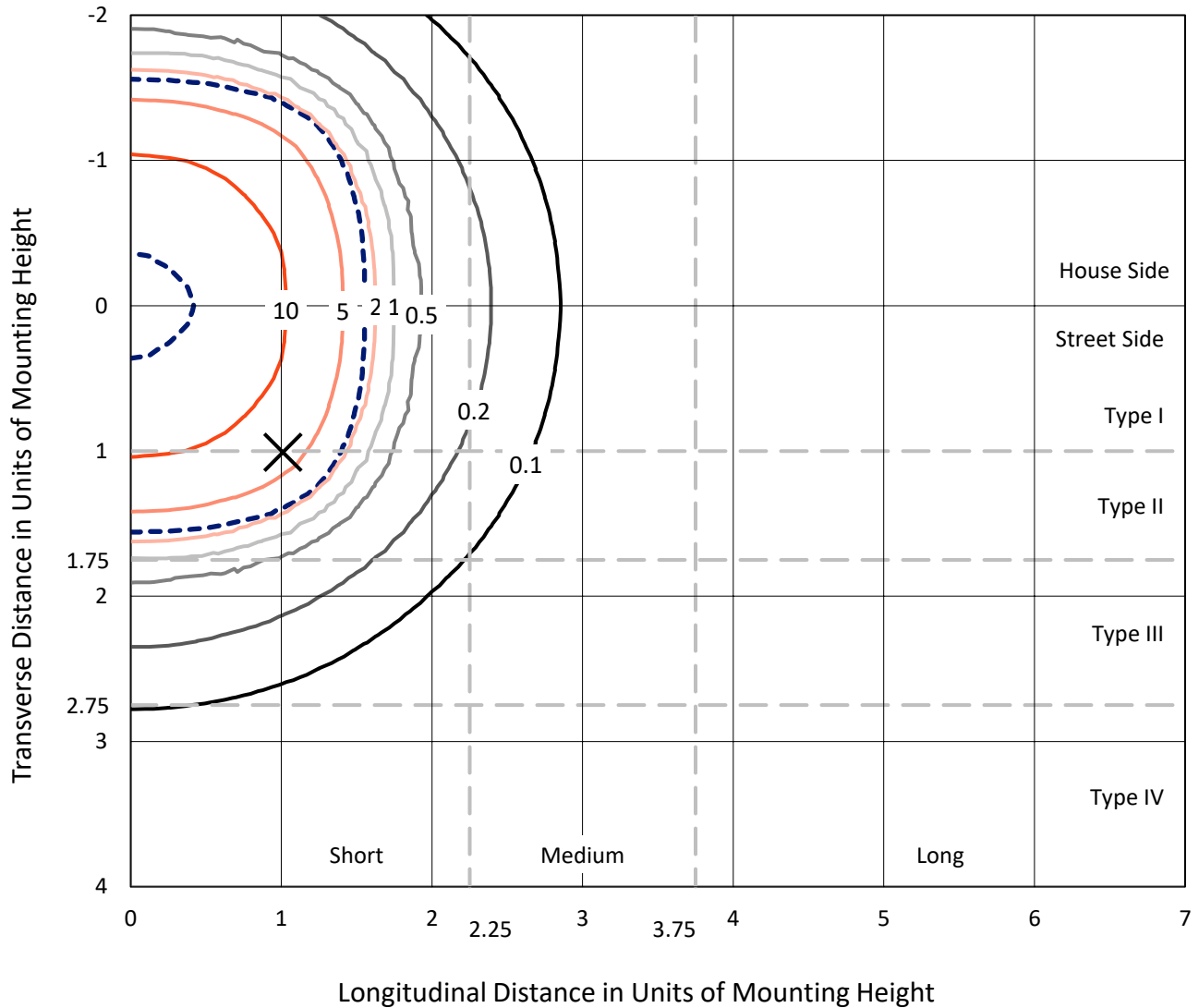
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

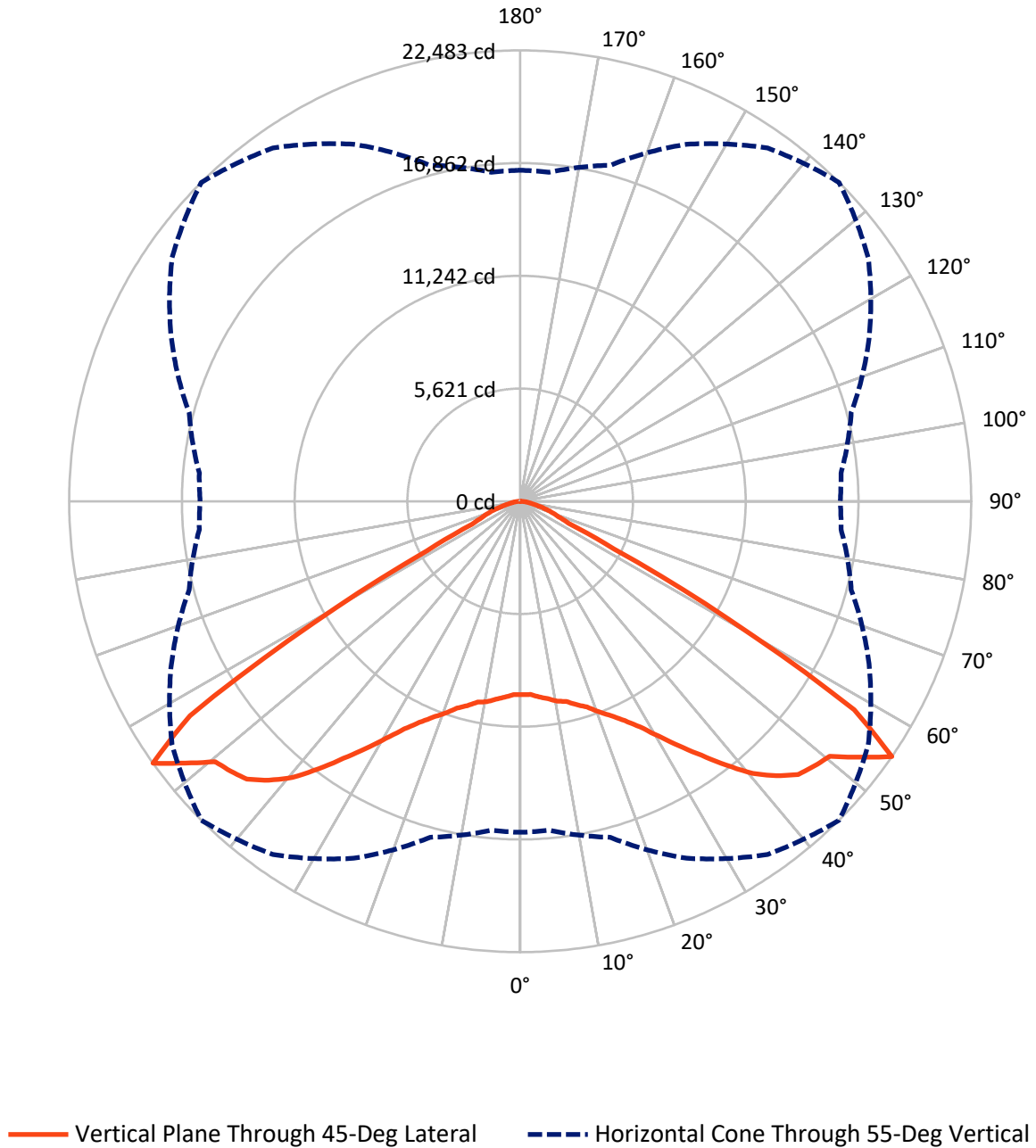
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	26414.0	0.0	26414.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26414.0	0.0	26414.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	52828.0	0.0	52828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.3	1.8
10°-20°	2985.6	5.7
20°-30°	5567.3	10.5
30°-40°	9321.4	17.6
40°-50°	14504.8	27.5
50°-60°	15060.6	28.5
60°-70°	3193.9	6.0
70°-80°	1051.9	2.0
80°-90°	200.3	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°	52828.0	100.0
0°-180°	52828.0	100.0

Coefficient of Utilization



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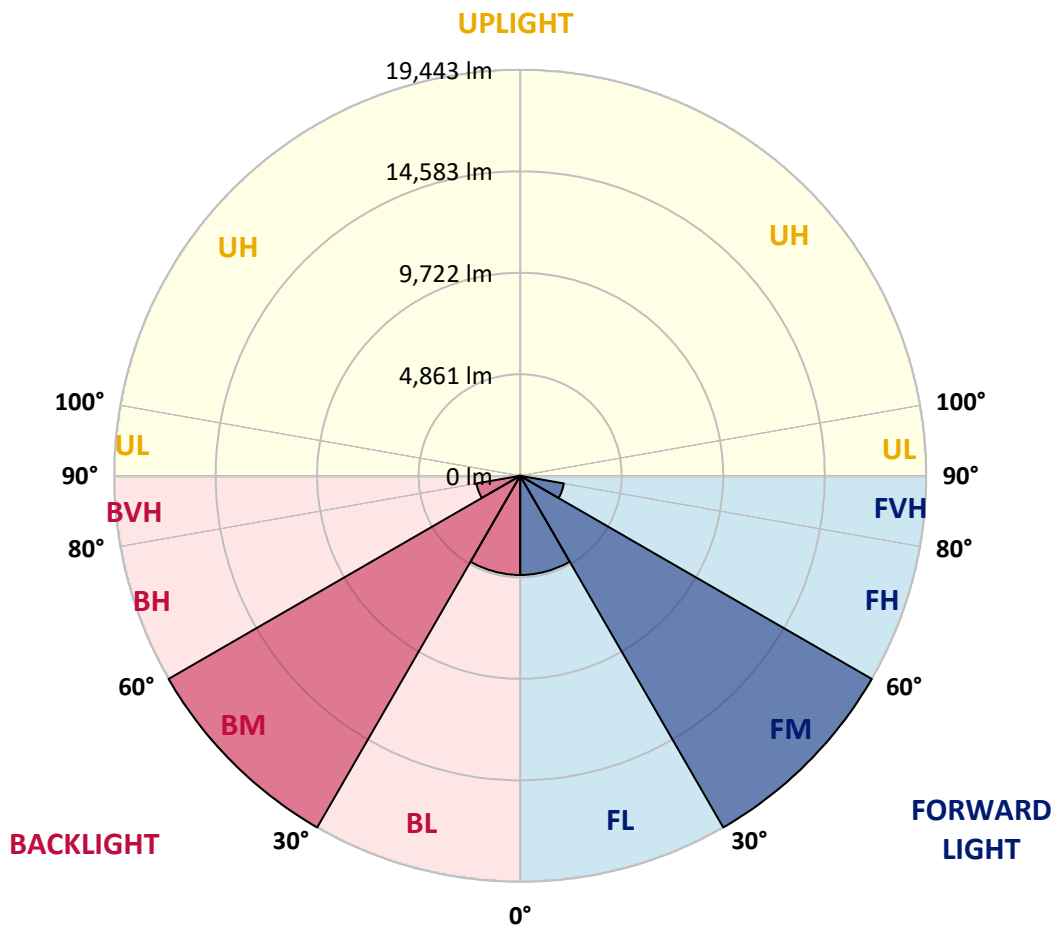
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4747.6	9.0			
FM (30°-60°)	19443.4	36.8			
FH (60°-80°)	2122.9	4.0			G2/5000
FVH (80°-90°)	100.2	0.2			G2/225
BL (0°-30°)	4747.6	9.0	B4/5000		
BM (30°-60°)	19443.4	36.8	B5		
BH (60°-80°)	2122.9	4.0	B3/2500		G2/5000
BVH (80°-90°)	100.2	0.2			G2/225
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°	9645.6	9645.6	9645.6	9645.6	9645.6	9645.6	9645.6	9645.6	9645.6	9645.6	9645.6
2.5°	9760.5	9715.8	9639.2	9696.7	9741.4	9645.6	9683.9	9703.1	9690.3	9639.2	9658.4
5°	9900.9	9875.4	9811.6	9856.3	9798.8	9798.8	9760.5	9709.4	9786.0	9773.3	9805.2
7.5°	9900.9	9869.0	9996.7	9913.7	9939.2	9939.2	9875.4	9824.3	9862.6	9805.2	9773.3
10°	10098.8	10143.5	10086.1	10105.2	10092.5	10137.1	10041.4	10009.5	9977.6	9958.4	9920.1
12.5°	10335.0	10303.1	10322.3	10309.5	10354.2	10239.3	10181.8	10111.6	10169.1	10086.1	10143.5
15°	10526.5	10507.4	10526.5	10577.6	10532.9	10526.5	10424.4	10354.2	10264.8	10284.0	10194.6
17.5°	10788.3	10769.1	10775.5	10820.2	10813.8	10781.9	10705.3	10571.2	10539.3	10488.2	10430.8
20°	11177.7	11145.7	11133.0	11152.1	11184.1	11209.6	11056.4	11005.3	10896.8	10813.8	10718.0
22.5°	11509.6	11496.8	11547.9	11464.9	11535.1	11611.8	11464.9	11439.4	11171.3	11126.6	11024.5
25°	11969.2	11950.1	11918.2	12039.5	12122.4	12116.1	11975.6	11835.2	11630.9	11579.8	11579.8
27.5°	12454.4	12345.9	12511.8	12543.8	12690.6	12735.3	12614.0	12409.7	12218.2	12109.7	12135.2
30°	13060.8	12958.7	12997.0	13226.8	13418.3	13584.3	13277.9	12977.8	12709.7	12518.2	12486.3
32.5°	13667.3	13565.1	13680.0	13903.5	14286.5	14535.4	14235.4	13712.0	13399.2	13118.3	13175.7
35°	14158.8	14235.4	14420.5	14758.9	15154.6	15556.8	15078.0	14675.9	14229.0	13916.2	13960.9
37.5°	14950.4	15186.6	15333.4	15722.8	16284.5	16699.5	16201.6	15678.1	15199.3	14790.8	14650.3
40°	15984.5	16144.1	16310.1	16769.7	17433.6	17848.5	17376.1	16693.1	16220.7	15799.4	15780.2
42.5°	17120.8	17274.0	17446.4	18008.1	18403.9	18716.7	18282.6	17918.7	17395.3	17063.3	17044.2
45°	18442.2	18333.7	18525.2	18895.4	19227.4	19431.6	19150.8	18972.0	18595.4	18289.0	18257.1
47.5°	19323.1	19227.4	19572.1	19904.0	19955.1	19731.7	19789.1	19955.1	19559.3	19055.0	19214.6
50°	19833.8	19833.8	20063.6	20370.0	20274.3	19987.0	20440.3	20453.0	20057.2	19610.4	19610.4
52.5°	18946.5	19144.4	19795.5	20797.7	21116.9	21199.9	21097.8	20663.7	19629.5	18716.7	18672.0
55°	16508.0	16463.3	17344.2	19642.3	21499.9	22483.0	21180.8	19182.7	17082.5	16054.7	15952.6
57.5°	10737.2	10788.3	12103.3	14446.1	17797.4	19629.5	17433.6	14624.8	12103.3	10686.1	10820.2
60°	4832.4	5004.7	5802.7	7551.8	10430.8	11924.5	10456.3	7934.8	6089.9	5285.6	5355.8
62.5°	2776.9	2808.8	2840.7	3370.5	4443.0	5253.7	4615.3	3562.0	3140.7	3000.3	3000.3
65°	2342.8	2323.6	2330.0	2374.7	2489.6	2655.6	2585.4	2489.6	2502.4	2489.6	2470.4
67.5°	1991.7	2017.2	1998.1	2030.0	2036.4	2061.9	2106.6	2144.9	2151.3	2164.0	2151.3
70°	1634.2	1640.6	1653.3	1678.9	1685.3	1704.4	1768.3	1800.2	1819.3	1819.3	1844.9
72.5°	1251.2	1244.8	1257.6	1283.1	1315.0	1321.4	1378.9	1423.5	1449.1	1417.2	1423.5
75°	823.5	829.9	849.0	868.2	912.9	957.5	976.7	1021.4	1027.8	1040.5	1008.6
77.5°	491.5	504.3	523.5	561.8	600.1	638.4	683.0	715.0	727.7	715.0	676.7
80°	319.2	319.2	344.7	376.6	421.3	453.2	478.8	504.3	523.5	504.3	491.5
82.5°	197.9	197.9	229.8	268.1	300.0	319.2	357.5	389.4	408.5	395.8	376.6
85°	102.1	108.5	134.1	166.0	191.5	204.3	197.9	178.7	159.6	153.2	140.4
87.5°	31.9	31.9	38.3	38.3	31.9	31.9	38.3	31.9	38.3	38.3	38.3
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)