

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: P532410

Luminaire Tested: **GALN-SA7D-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532410
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-SA7D-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 45210 lumens
Efficiency: N/A
Efficacy: 104.4 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

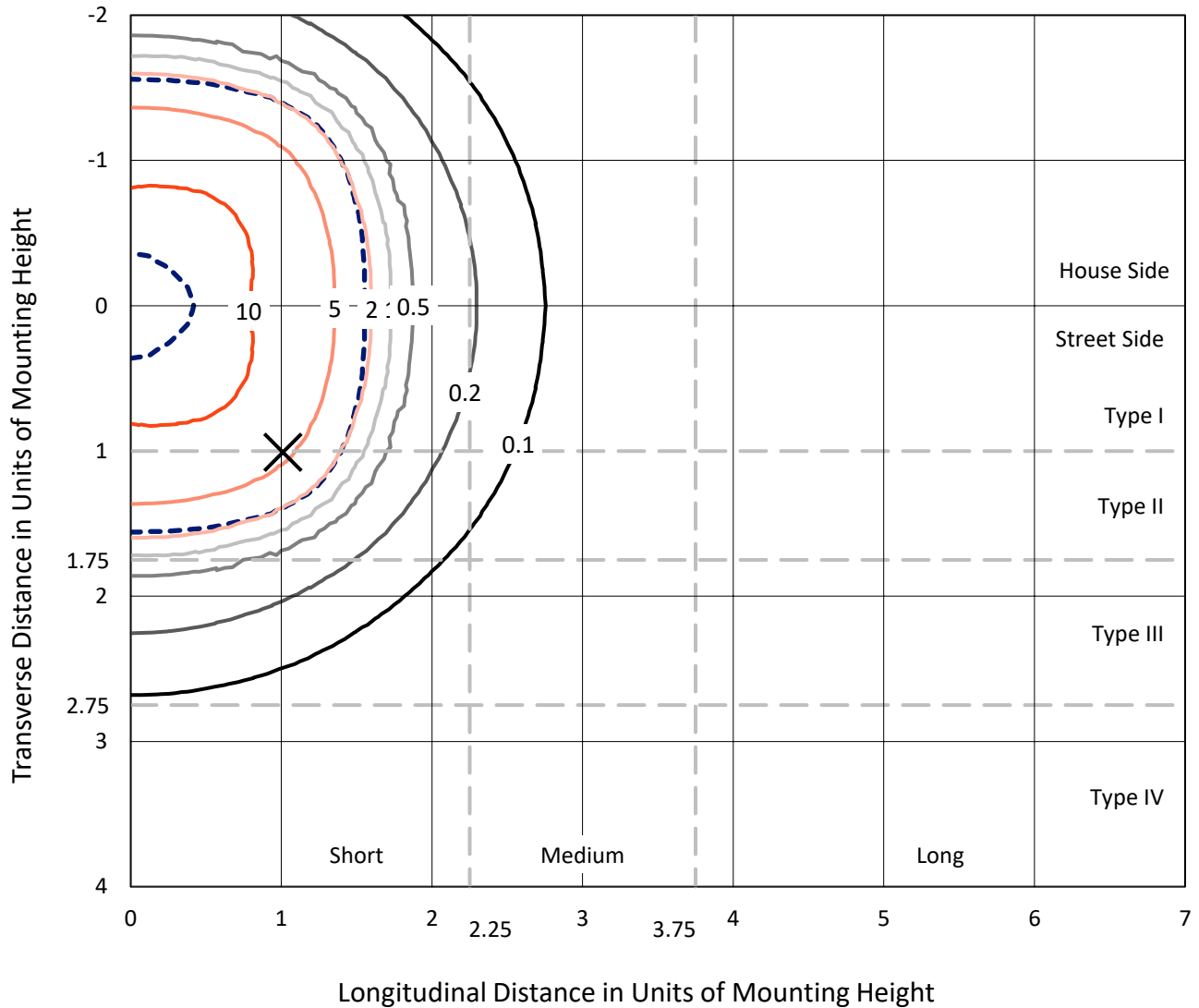
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

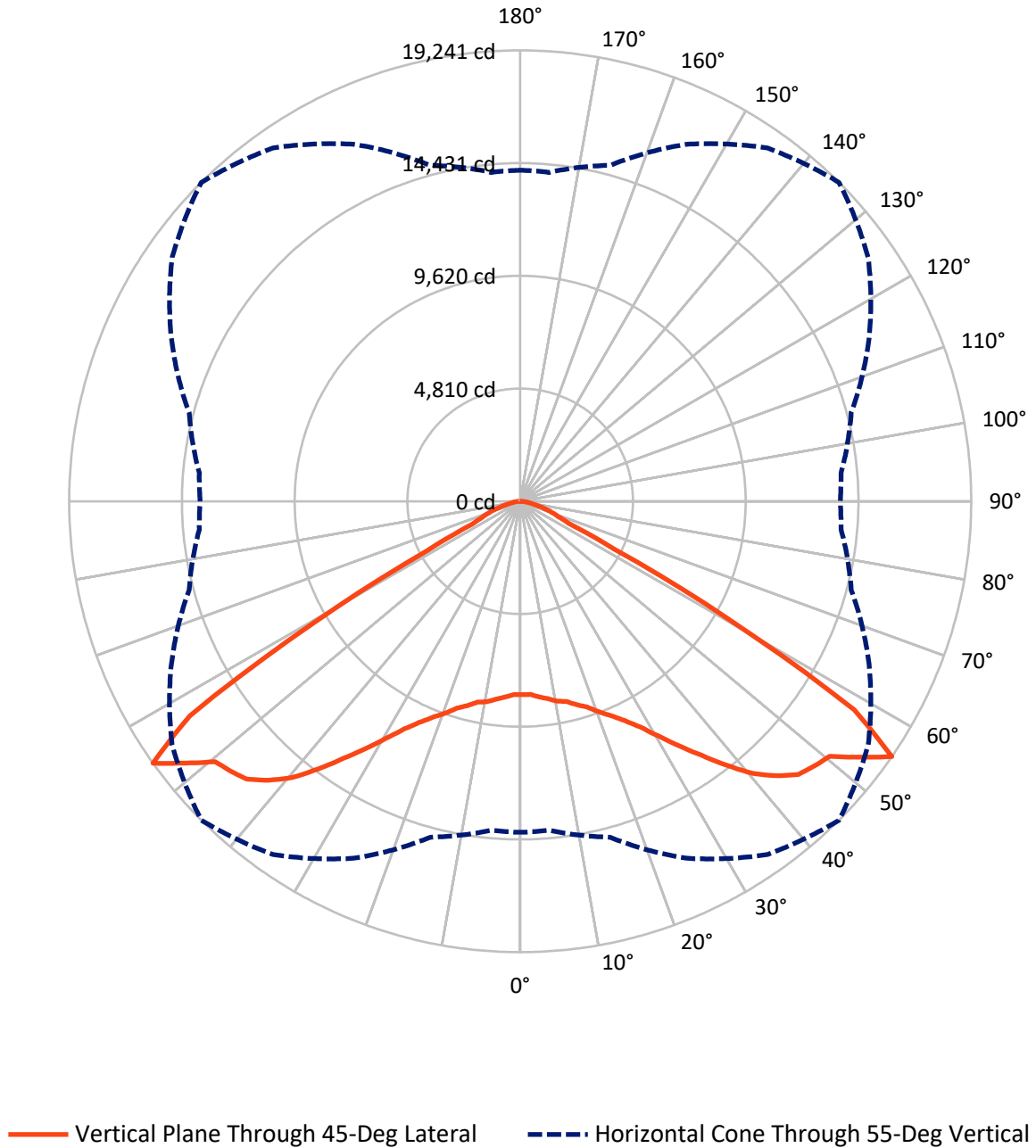
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	22605.0	0.0	22605.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22605.0	0.0	22605.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45210.0	0.0	45210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.4	1.8
10°-20°	2555.1	5.7
20°-30°	4764.4	10.5
30°-40°	7977.2	17.6
40°-50°	12413.2	27.5
50°-60°	12888.8	28.5
60°-70°	2733.3	6.0
70°-80°	900.2	2.0
80°-90°	171.4	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°	45210.0	100.0
0°-180°	45210.0	100.0

Coefficient of Utilization

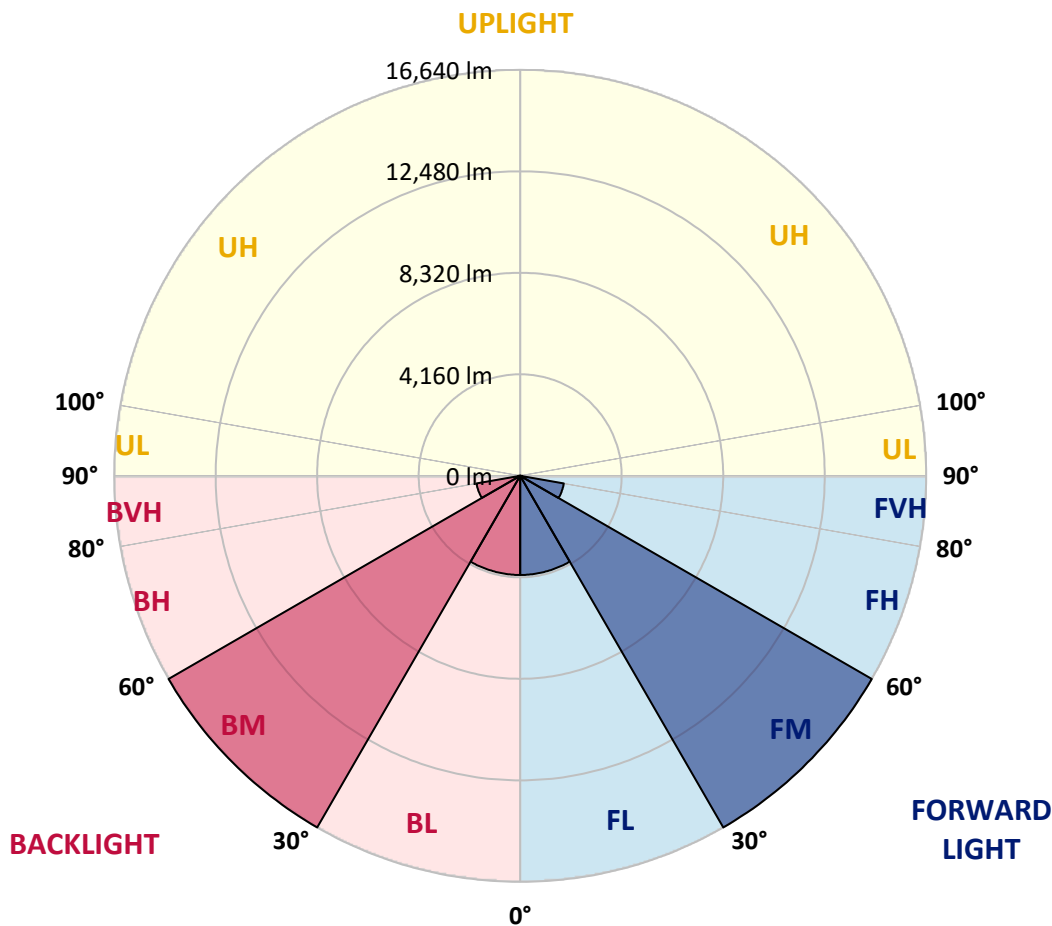


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4063.0	9.0			
FM (30°-60°)	16639.6	36.8			
FH (60°-80°)	1816.7	4.0			G2/5000
FVH (80°-90°)	85.7	0.2			G1/100
BL (0°-30°)	4063.0	9.0	B4/5000		
BM (30°-60°)	16639.6	36.8	B5		
BH (60°-80°)	1816.7	4.0	B3/2500		G2/5000
BVH (80°-90°)	85.7	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°	8254.7	8254.7	8254.7	8254.7	8254.7	8254.7	8254.7	8254.7	8254.7	8254.7	8254.7
2.5°	8353.0	8314.8	8249.2	8298.4	8336.6	8254.7	8287.4	8303.8	8292.9	8249.2	8265.6
5°	8473.2	8451.3	8396.7	8435.0	8385.8	8385.8	8353.0	8309.3	8374.9	8363.9	8391.2
7.5°	8473.2	8445.9	8555.1	8484.1	8506.0	8506.0	8451.3	8407.6	8440.4	8391.2	8363.9
10°	8642.5	8680.8	8631.6	8648.0	8637.1	8675.3	8593.4	8566.1	8538.8	8522.4	8489.6
12.5°	8844.7	8817.4	8833.8	8822.8	8861.1	8762.7	8713.6	8653.5	8702.6	8631.6	8680.8
15°	9008.6	8992.2	9008.6	9052.3	9014.0	9008.6	8921.2	8861.1	8784.6	8801.0	8724.5
17.5°	9232.6	9216.2	9221.6	9259.9	9254.4	9227.1	9161.5	9046.8	9019.5	8975.8	8926.6
20°	9565.8	9538.5	9527.6	9544.0	9571.3	9593.1	9462.0	9418.3	9325.4	9254.4	9172.5
22.5°	9849.9	9839.0	9882.7	9811.6	9871.7	9937.3	9811.6	9789.8	9560.3	9522.1	9434.7
25°	10243.2	10226.8	10199.5	10303.3	10374.3	10368.9	10248.7	10128.5	9953.7	9910.0	9910.0
27.5°	10658.4	10565.5	10707.6	10734.9	10860.5	10898.8	10795.0	10620.2	10456.3	10363.4	10385.3
30°	11177.4	11090.0	11122.8	11319.4	11483.3	11625.4	11363.1	11106.4	10876.9	10713.0	10685.7
32.5°	11696.4	11609.0	11707.3	11898.5	12226.3	12439.4	12182.6	11734.6	11466.9	11226.6	11275.7
35°	12117.0	12182.6	12341.0	12630.6	12969.3	13313.5	12903.7	12559.6	12177.1	11909.5	11947.7
37.5°	12794.5	12996.6	13122.3	13455.5	13936.2	14291.3	13865.2	13417.3	13007.5	12657.9	12537.7
40°	13679.5	13816.1	13958.1	14351.4	14919.6	15274.7	14870.4	14285.9	13881.6	13521.1	13504.7
42.5°	14651.9	14783.0	14930.5	15411.3	15750.0	16017.7	15646.2	15334.8	14886.8	14602.7	14586.3
45°	15782.8	15689.9	15853.8	16170.6	16454.7	16629.5	16389.2	16236.2	15913.9	15651.6	15624.3
47.5°	16536.7	16454.7	16749.7	17033.8	17077.5	16886.3	16935.5	17077.5	16738.8	16307.2	16443.8
50°	16973.7	16973.7	17170.4	17432.6	17350.7	17104.8	17492.7	17503.6	17164.9	16782.5	16782.5
52.5°	16214.3	16383.7	16940.9	17798.6	18071.8	18142.8	18055.4	17683.9	16798.9	16017.7	15979.4
55°	14127.5	14089.2	14843.1	16809.8	18399.6	19240.9	18126.4	16416.5	14619.1	13739.6	13652.2
57.5°	9188.9	9232.6	10357.9	12362.9	15231.0	16798.9	14919.6	12515.9	10357.9	9145.1	9259.9
60°	4135.5	4283.0	4965.9	6462.8	8926.6	10205.0	8948.5	6790.6	5211.8	4523.4	4583.5
62.5°	2376.4	2403.7	2431.1	2884.5	3802.3	4496.1	3949.8	3048.4	2687.8	2567.6	2567.6
65°	2004.9	1988.6	1994.0	2032.3	2130.6	2272.6	2212.5	2130.6	2141.5	2130.6	2114.2
67.5°	1704.5	1726.3	1709.9	1737.3	1742.7	1764.6	1802.8	1835.6	1841.0	1852.0	1841.0
70°	1398.5	1404.0	1414.9	1436.8	1442.2	1458.6	1513.3	1540.6	1557.0	1557.0	1578.8
72.5°	1070.8	1065.3	1076.2	1098.1	1125.4	1130.9	1180.0	1218.3	1240.1	1212.8	1218.3
75°	704.7	710.2	726.6	743.0	781.2	819.5	835.8	874.1	879.6	890.5	863.2
77.5°	420.7	431.6	448.0	480.7	513.5	546.3	584.5	611.9	622.8	611.9	579.1
80°	273.2	273.2	295.0	322.3	360.6	387.9	409.7	431.6	448.0	431.6	420.7
82.5°	169.4	169.4	196.7	229.4	256.8	273.2	305.9	333.2	349.6	338.7	322.3
85°	87.4	92.9	114.7	142.0	163.9	174.8	169.4	153.0	136.6	131.1	120.2
87.5°	27.3	27.3	32.8	32.8	27.3	27.3	32.8	27.3	32.8	32.8	32.8
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)