

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: P533606

Luminaire Tested: **GALN-SA9A-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533606
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-SA9A-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 37342 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

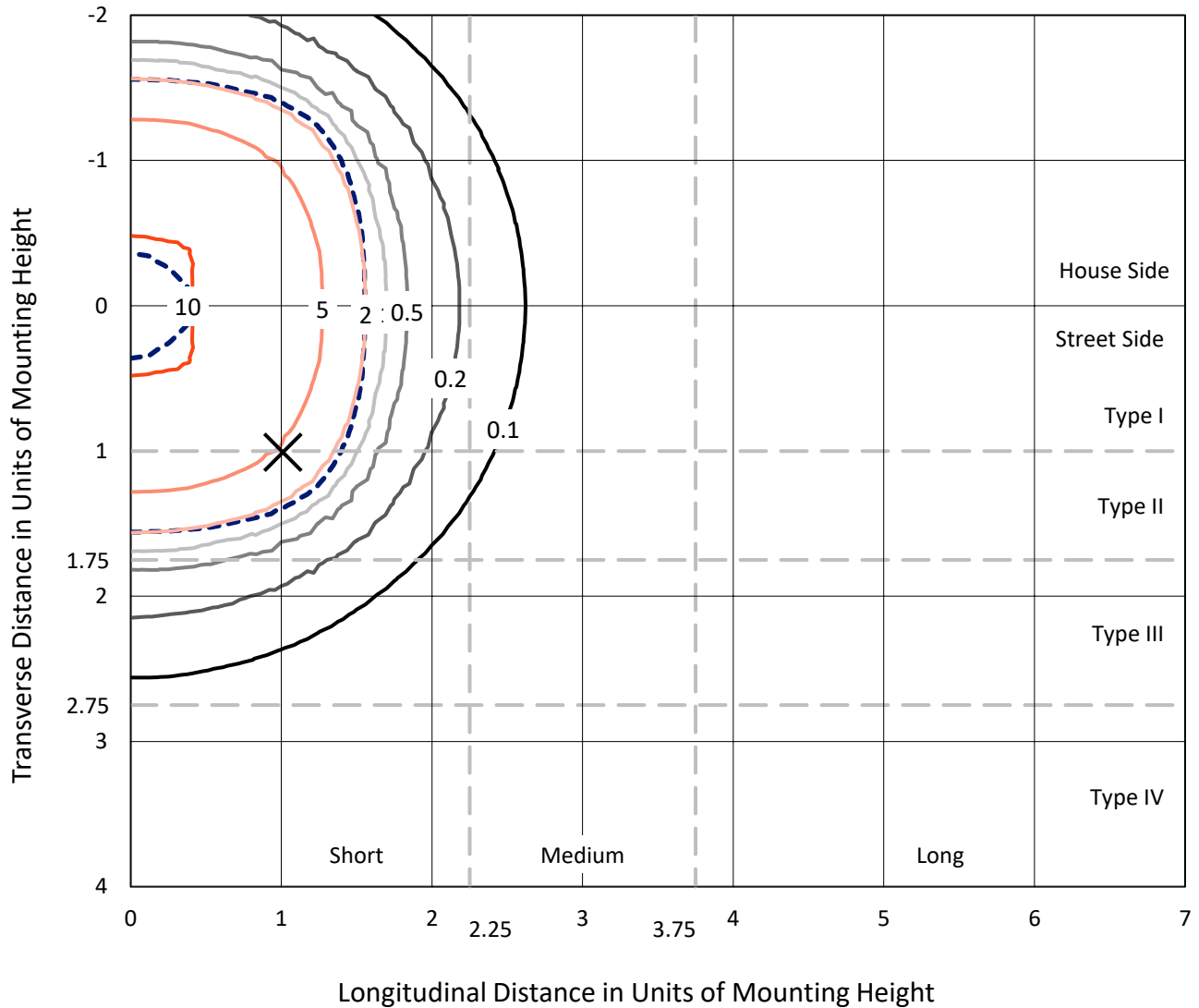
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

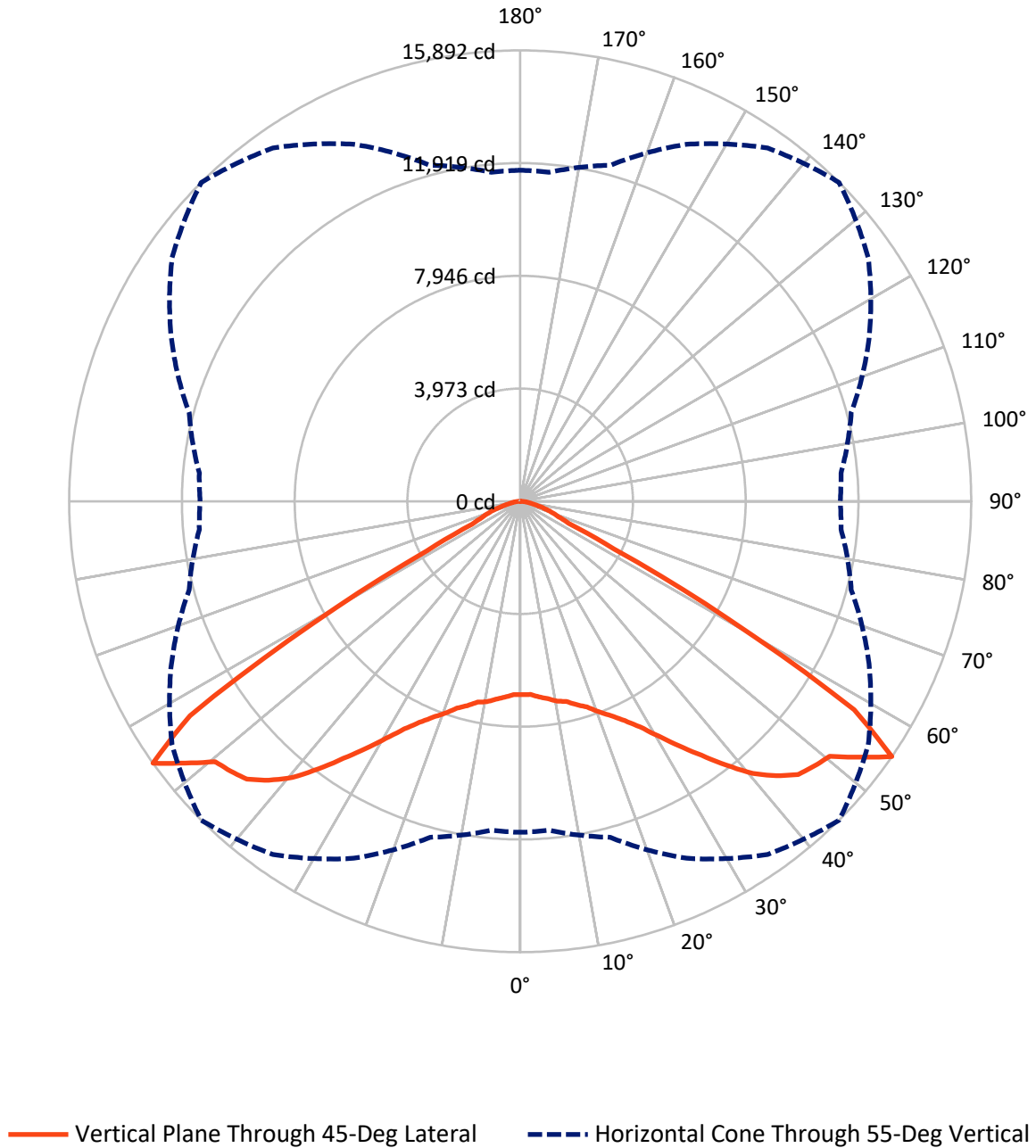
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	18671.0	0.0	18671.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18671.0	0.0	18671.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37342.0	0.0	37342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.1	1.8
10°-20°	2110.4	5.7
20°-30°	3935.3	10.5
30°-40°	6588.9	17.6
40°-50°	10252.9	27.5
50°-60°	10645.7	28.5
60°-70°	2257.6	6.0
70°-80°	743.5	2.0
80°-90°	141.6	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°	37342.0	100.0
0°-180°	37342.0	100.0

Coefficient of Utilization

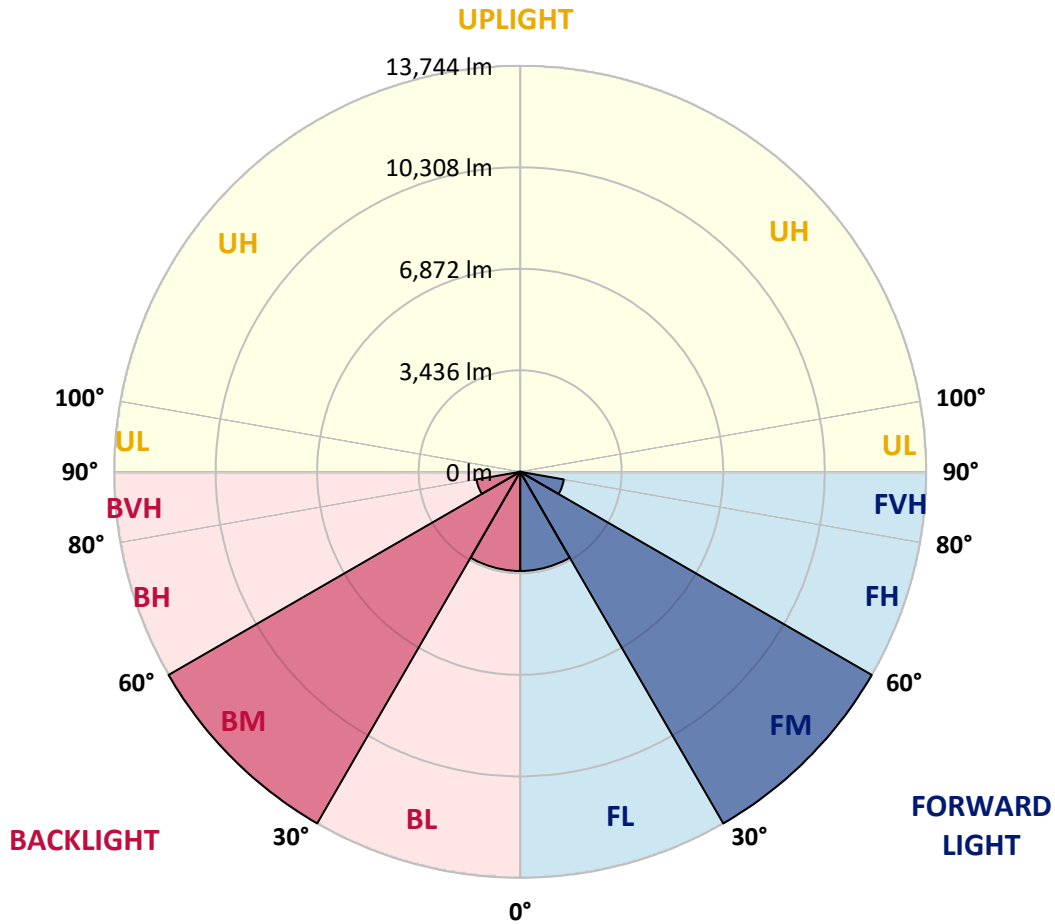


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3355.9	9.0			
FM (30°-60°)	13743.8	36.8			
FH (60°-80°)	1500.6	4.0			G1/1800
FVH (80°-90°)	70.8	0.2			G1/100
BL (0°-30°)	3355.9	9.0	B4/5000		
BM (30°-60°)	13743.8	36.8	B5		
BH (60°-80°)	1500.6	4.0	B3/2500		G1/1800
BVH (80°-90°)	70.8	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6818.1	6818.1	6818.1	6818.1	6818.1	6818.1	6818.1	6818.1	6818.1	6818.1	6818.1
2.5°	6899.3	6867.7	6813.6	6854.2	6885.8	6818.1	6845.2	6858.7	6849.7	6813.6	6827.1
5°	6998.6	6980.5	6935.4	6967.0	6926.4	6926.4	6899.3	6863.2	6917.4	6908.3	6930.9
7.5°	6998.6	6976.0	7066.3	7007.6	7025.7	7025.7	6980.5	6944.4	6971.5	6930.9	6908.3
10°	7138.5	7170.1	7129.4	7143.0	7134.0	7165.5	7097.9	7075.3	7052.7	7039.2	7012.1
12.5°	7305.4	7282.9	7296.4	7287.4	7319.0	7237.7	7197.1	7147.5	7188.1	7129.4	7170.1
15°	7440.8	7427.3	7440.8	7476.9	7445.3	7440.8	7368.6	7319.0	7255.8	7269.3	7206.2
17.5°	7625.8	7612.3	7616.8	7648.4	7643.8	7621.3	7567.1	7472.4	7449.8	7413.7	7373.1
20°	7901.0	7878.5	7869.5	7883.0	7905.6	7923.6	7815.3	7779.2	7702.5	7643.8	7576.2
22.5°	8135.7	8126.7	8162.8	8104.1	8153.7	8207.9	8104.1	8086.0	7896.5	7864.9	7792.8
25°	8460.6	8447.0	8424.5	8510.2	8568.9	8564.4	8465.1	8365.8	8221.4	8185.3	8185.3
27.5°	8803.5	8726.8	8844.1	8866.7	8970.5	9002.0	8916.3	8771.9	8636.6	8559.8	8577.9
30°	9232.2	9160.0	9187.1	9349.5	9484.9	9602.2	9385.6	9173.5	8984.0	8848.6	8826.1
32.5°	9660.8	9588.6	9669.9	9827.8	10098.5	10274.5	10062.4	9692.4	9471.3	9272.8	9313.4
35°	10008.3	10062.4	10193.3	10432.4	10712.2	10996.5	10658.1	10373.8	10057.9	9836.8	9868.4
37.5°	10567.8	10734.8	10838.6	11113.8	11510.9	11804.2	11452.2	11082.2	10743.8	10455.0	10355.7
40°	11298.8	11411.6	11528.9	11853.8	12323.1	12616.4	12282.5	11799.7	11465.8	11168.0	11154.4
42.5°	12102.0	12210.3	12332.1	12729.2	13009.0	13230.1	12923.2	12666.0	12296.0	12061.4	12047.9
45°	13036.0	12959.3	13094.7	13356.4	13591.1	13735.5	13536.9	13410.6	13144.3	12927.8	12905.2
47.5°	13658.7	13591.1	13834.7	14069.4	14105.5	13947.5	13988.1	14105.5	13825.7	13469.2	13582.0
50°	14019.7	14019.7	14182.2	14398.8	14331.1	14128.0	14448.4	14457.4	14177.7	13861.8	13861.8
52.5°	13392.5	13532.4	13992.7	14701.1	14926.7	14985.4	14913.2	14606.3	13875.3	13230.1	13198.5
55°	11668.8	11637.2	12259.9	13884.4	15197.4	15892.3	14971.8	13559.5	12074.9	11348.4	11276.2
57.5°	7589.7	7625.8	8555.3	10211.3	12580.3	13875.3	12323.1	10337.7	8555.3	7553.6	7648.4
60°	3415.8	3537.6	4101.7	5338.1	7373.1	8429.0	7391.2	5608.8	4304.7	3736.2	3785.8
62.5°	1962.9	1985.4	2008.0	2382.5	3140.6	3713.6	3262.4	2517.9	2220.1	2120.8	2120.8
65°	1656.0	1642.5	1647.0	1678.6	1759.8	1877.1	1827.5	1759.8	1768.8	1759.8	1746.3
67.5°	1407.8	1425.9	1412.4	1434.9	1439.4	1457.5	1489.1	1516.1	1520.6	1529.7	1520.6
70°	1155.1	1159.7	1168.7	1186.7	1191.2	1204.8	1249.9	1272.5	1286.0	1286.0	1304.1
72.5°	884.4	879.9	888.9	907.0	929.5	934.0	974.7	1006.2	1024.3	1001.7	1006.2
75°	582.1	586.6	600.1	613.7	645.3	676.8	690.4	722.0	726.5	735.5	712.9
77.5°	347.4	356.5	370.0	397.1	424.2	451.2	482.8	505.4	514.4	505.4	478.3
80°	225.6	225.6	243.7	266.2	297.8	320.4	338.4	356.5	370.0	356.5	347.4
82.5°	139.9	139.9	162.4	189.5	212.1	225.6	252.7	275.3	288.8	279.8	266.2
85°	72.2	76.7	94.8	117.3	135.4	144.4	139.9	126.3	112.8	108.3	99.3
87.5°	22.6	22.6	27.1	27.1	22.6	22.6	27.1	22.6	27.1	27.1	27.1
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)