

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: P458431

Luminaire Tested: **GALN-SA9D-760-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-760-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72356 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

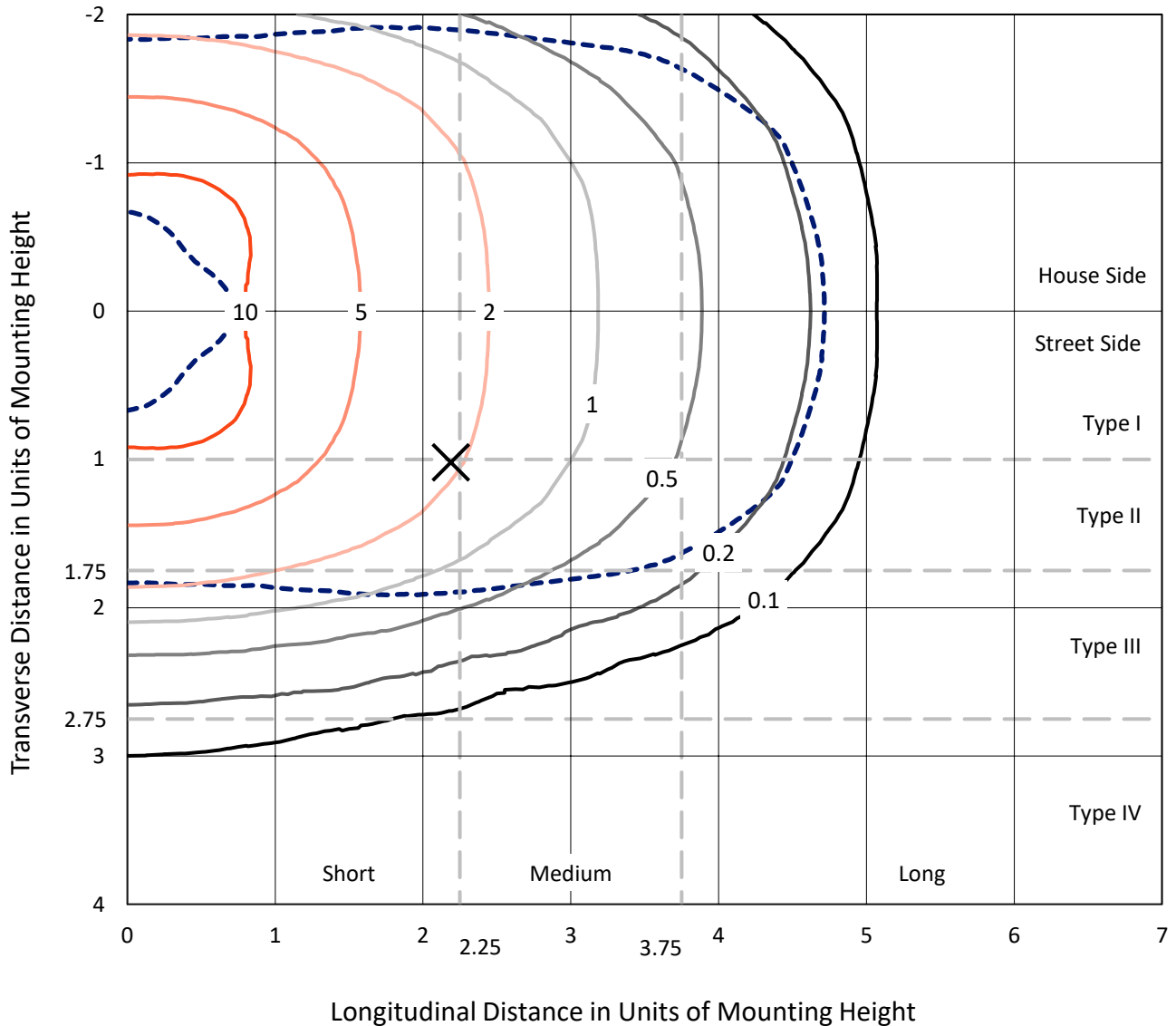
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

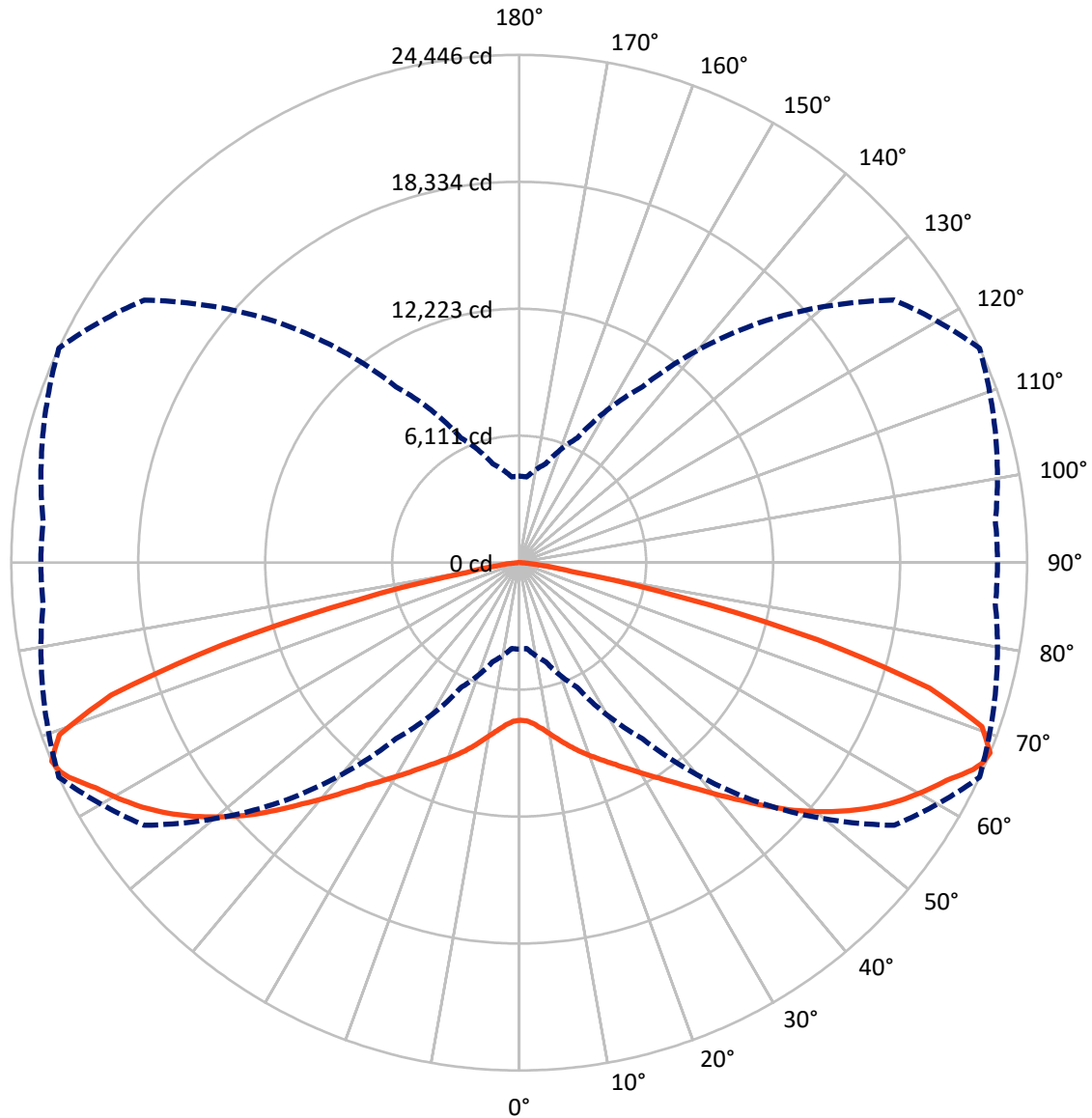
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36178.0	0.0	36178.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36178.0	0.0	36178.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	72356.0	0.0	72356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.5	1.0
10°-20°	2501.7	3.5
20°-30°	4893.5	6.8
30°-40°	8323.1	11.5
40°-50°	13173.0	18.2
50°-60°	17467.2	24.1
60°-70°	16476.9	22.8
70°-80°	8145.4	11.3
80°-90°	627.7	0.9
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°	72356.0	100.0
0°-180°	72356.0	100.0

Coefficient of Utilization



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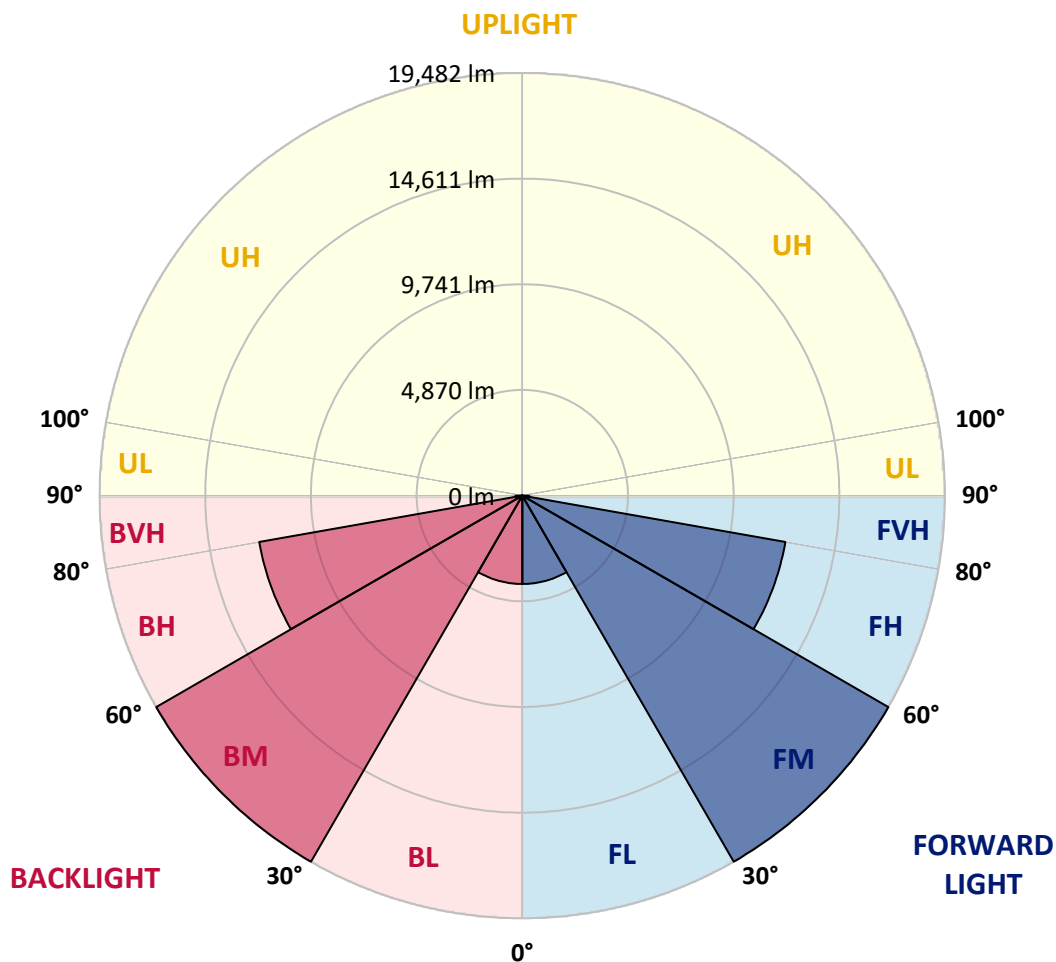
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4071.3	5.6			
FM	(30°-60°)	19481.7	26.9			
FH	(60°-80°)	12311.2	17.0			G5
FVH	(80°-90°)	313.9	0.4			G3/500
BL	(0°-30°)	4071.3	5.6	B4/5000		
BM	(30°-60°)	19481.7	26.9	B5		
BH	(60°-80°)	12311.2	17.0	B5		G5
BVH	(80°-90°)	313.9	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7578.7	7578.7	7578.7	7578.7	7578.7	7578.7	7578.7	7578.7	7578.7	7578.7	7578.7
2.5°	7539.9	7547.6	7555.4	7567.0	7582.5	7605.8	7621.3	7632.9	7663.9	7667.8	7663.9
5°	7512.8	7520.5	7539.9	7574.8	7625.2	7694.9	7749.2	7815.1	7865.5	7900.4	7892.7
7.5°	7508.9	7524.4	7555.4	7629.0	7726.0	7846.1	7970.2	8082.6	8179.5	8257.0	8245.4
10°	7570.9	7590.3	7640.7	7749.2	7900.4	8074.9	8249.3	8416.0	8555.5	8656.3	8691.2
12.5°	7675.6	7691.1	7784.1	7946.9	8164.0	8381.1	8578.8	8784.3	8978.1	9148.7	9148.7
15°	7857.8	7884.9	8001.2	8237.7	8505.1	8757.1	8958.7	9175.8	9385.1	9579.0	9637.1
17.5°	8109.7	8148.5	8323.0	8625.3	8966.5	9199.1	9389.0	9567.3	9749.5	9935.6	9962.7
20°	8454.8	8493.5	8726.1	9090.5	9493.7	9772.8	9900.7	9943.3	10032.5	10210.8	10234.1
22.5°	8923.8	8962.6	9222.3	9633.2	10082.9	10385.3	10439.5	10338.8	10315.5	10455.1	10470.6
25°	9454.9	9489.8	9788.3	10230.2	10695.4	11024.9	11009.4	10761.3	10621.7	10707.0	10730.3
27.5°	10051.9	10102.3	10404.7	10862.1	11366.0	11656.8	11610.3	11249.7	10951.3	10935.7	10943.5
30°	10815.6	10869.8	11156.7	11594.8	12091.0	12358.4	12261.5	11777.0	11315.6	11160.6	11160.6
32.5°	11621.9	11757.6	12048.3	12505.7	12893.4	13087.2	12939.9	12358.4	11745.9	11528.9	11517.2
35°	12672.4	12746.1	13033.0	13478.8	13769.5	13920.7	13637.7	13013.6	12308.0	12052.2	12017.3
37.5°	13699.7	13761.7	14095.1	14521.6	14874.3	14866.6	14482.8	13792.8	13005.8	12719.0	12695.7
40°	14750.3	14816.2	15196.1	15587.6	15940.4	15909.4	15444.2	14672.7	13835.4	13513.6	13575.7
42.5°	15661.3	15734.9	16165.2	16723.4	17041.3	17033.6	16494.7	15626.4	14754.1	14467.3	14521.6
45°	16490.8	16556.7	17056.8	17696.4	18161.6	18219.8	17630.5	16711.8	15816.3	15448.0	15463.6
47.5°	17076.2	17200.2	17723.6	18456.2	19088.1	19293.6	18716.0	17816.6	16785.5	16401.7	16424.9
50°	17522.0	17599.5	18169.4	19002.8	19801.4	20227.8	19762.6	18840.0	17754.6	17347.6	17401.8
52.5°	17576.3	17669.3	18289.6	19250.9	20274.3	20921.7	20693.0	19840.2	18743.1	18324.4	18440.7
55°	17134.3	17188.6	17929.0	19095.9	20460.4	21437.3	21495.5	20770.5	19685.1	19367.2	19444.8
57.5°	15874.5	16014.0	16952.1	18371.0	20204.6	21712.5	22096.3	21615.6	20638.7	20324.7	20448.8
60°	13808.3	13947.8	14889.8	16688.5	19239.3	21584.6	22592.5	22363.8	21503.2	21251.2	21317.1
62.5°	10819.4	10807.8	11974.7	14180.4	17320.4	20956.6	22960.8	23084.8	22356.1	22038.2	22139.0
65°	7012.7	7047.6	8175.6	10552.0	14424.6	19359.5	23042.2	24003.6	23193.4	22712.7	22786.4
66°	5640.4	5745.0	6702.6	8892.8	12947.7	18312.8	22798.0	24274.9	23449.2	22867.8	22902.6
67.5°	4163.4	4144.0	4931.0	6621.1	10338.8	16324.1	22034.3	24445.5	23740.0	23007.3	23022.8
70°	2376.3	2372.4	2651.6	3636.2	6078.4	11494.0	18572.5	23627.6	24329.2	23511.3	23468.6
72.5°	1736.7	1725.1	1763.8	2008.1	2965.6	5803.2	12812.0	20650.4	24026.8	23429.9	23309.7
75°	1457.6	1449.8	1442.1	1473.1	1663.0	2628.3	6799.5	14854.9	20848.1	21991.7	21867.6
77.5°	1190.1	1190.1	1194.0	1186.2	1194.0	1383.9	2818.3	7962.4	12695.7	14172.7	14517.7
80°	930.4	926.5	992.4	965.3	903.2	887.7	1248.2	2562.4	4213.8	4190.5	3457.9
82.5°	686.1	639.6	755.9	736.5	666.8	566.0	728.8	1093.2	1407.2	914.9	678.4
85°	434.2	430.3	535.0	488.4	407.0	267.5	348.9	469.1	581.5	352.8	286.9
87.5°	77.5	73.7	170.6	124.0	124.0	77.5	96.9	127.9	190.0	131.8	96.9
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)