

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: P455600

Luminaire Tested: **GALN-SA6D-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45793 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

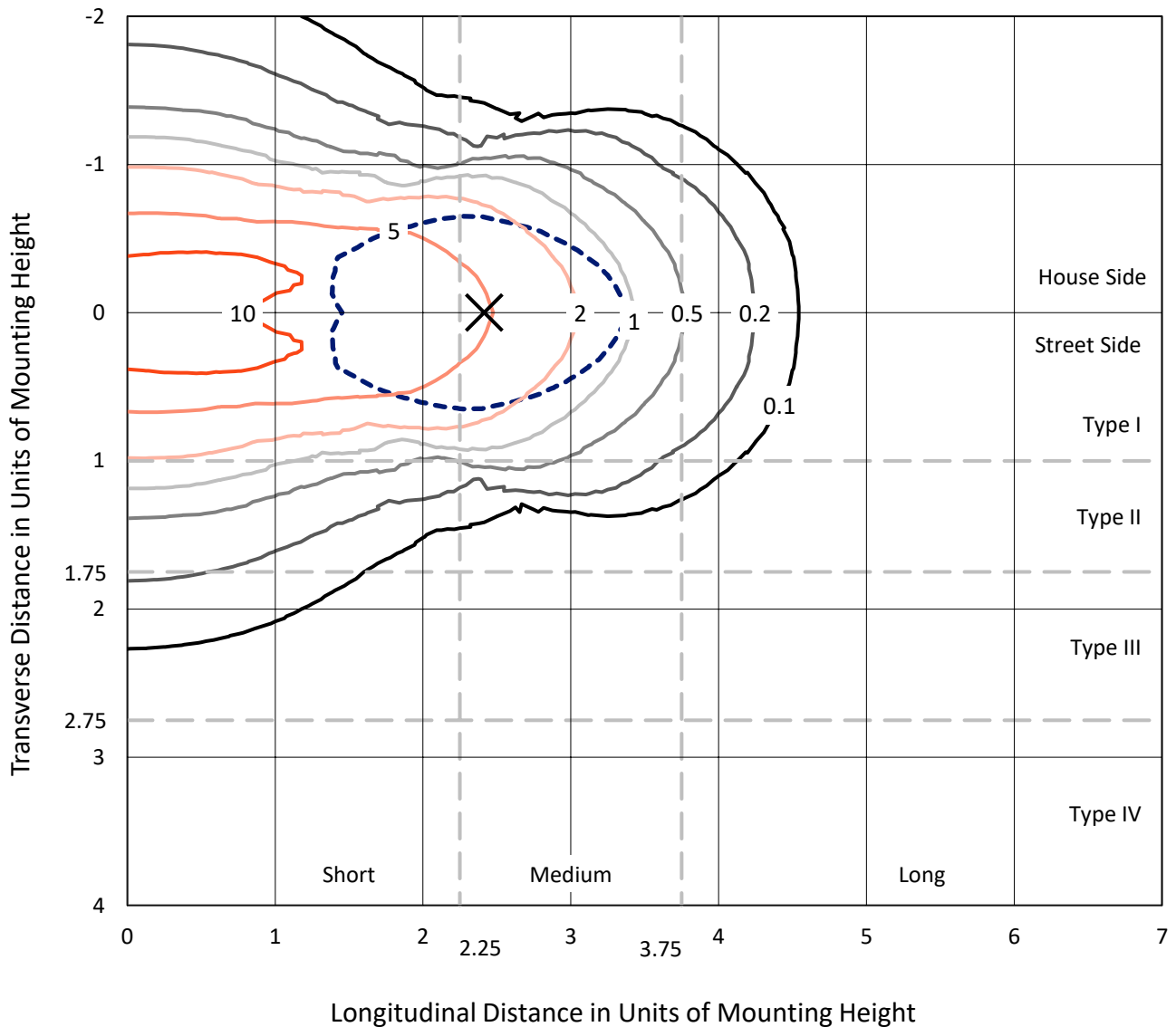
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

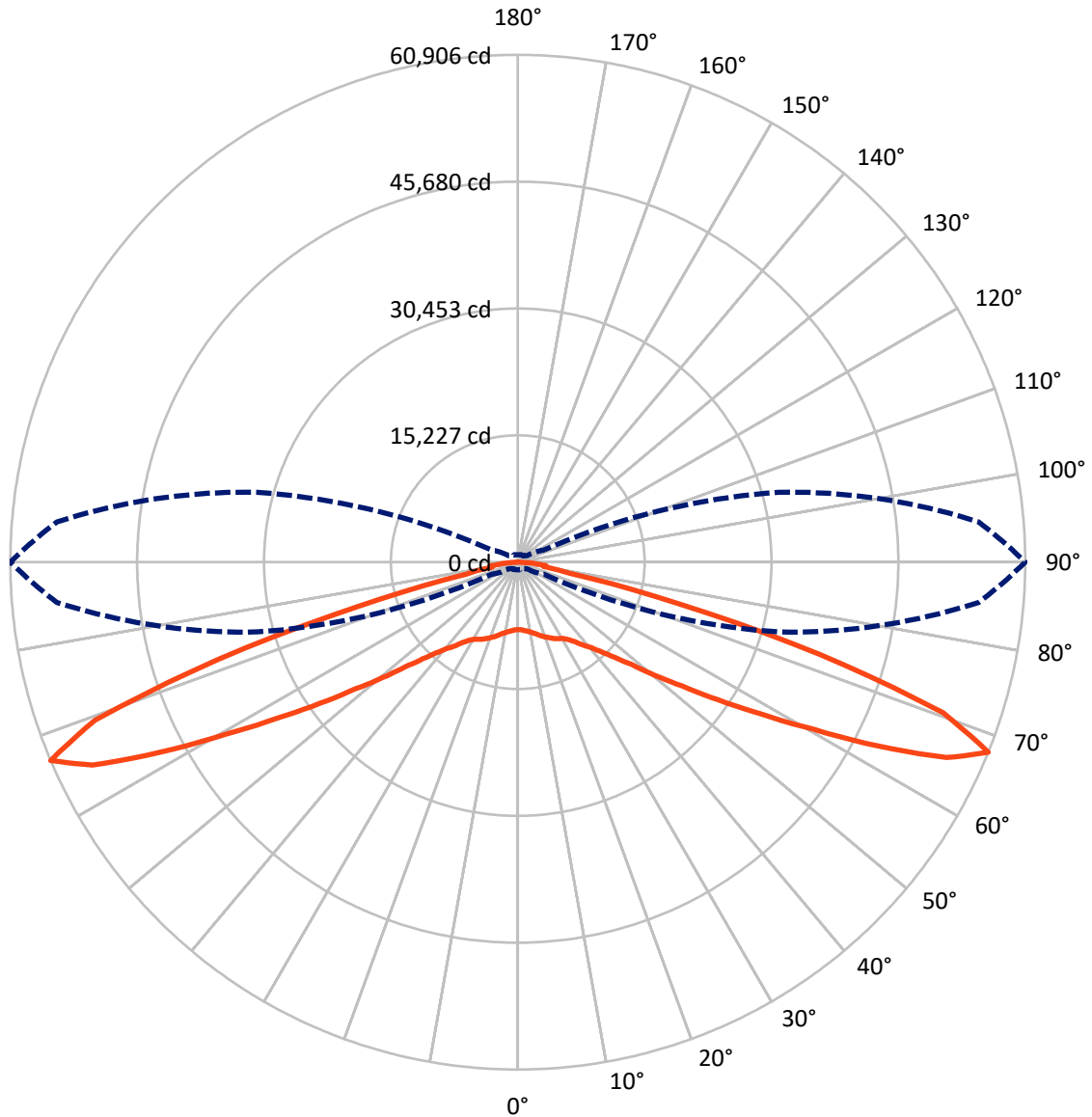
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22896.5	0.0	22896.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22896.5	0.0	22896.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45793.0	0.0	45793.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.2	1.8
10°-20°	2586.0	5.6
20°-30°	4328.2	9.5
30°-40°	5863.6	12.8
40°-50°	7427.2	16.2
50°-60°	9278.5	20.3
60°-70°	10906.4	23.8
70°-80°	4172.2	9.1
80°-90°	422.7	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°	45793.0	100.0
0°-180°	45793.0	100.0



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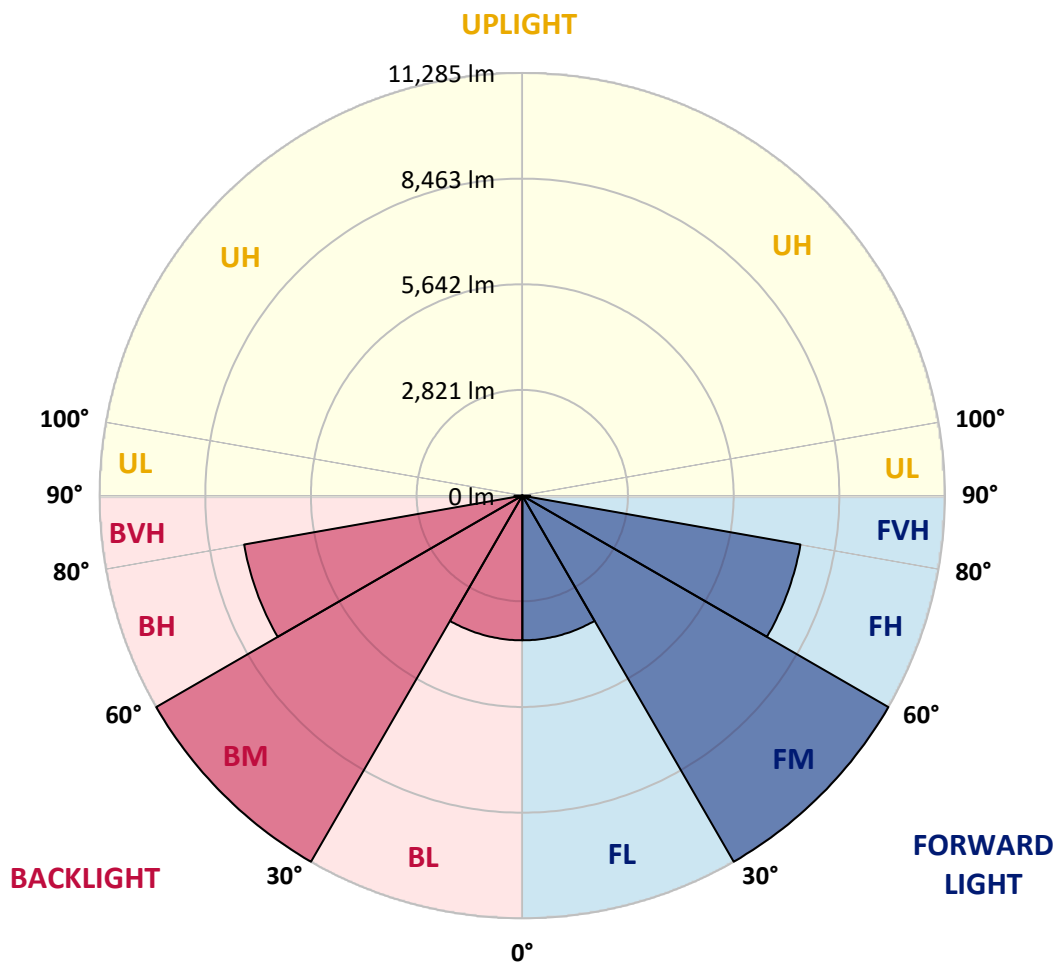
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3861.2	8.4			
FM (30°-60°)	11284.6	24.6			
FH (60°-80°)	7539.3	16.5			G4/12000
FVH (80°-90°)	211.3	0.5			G2/225
BL (0°-30°)	3861.2	8.4	B4/5000		
BM (30°-60°)	11284.6	24.6	B5		
BH (60°-80°)	7539.3	16.5	B5		G5
BVH (80°-90°)	211.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8
2.5°	8210.8	8205.7	8208.2	8205.7	8213.3	8208.2	8177.8	8152.4	8132.1	8134.7	8127.1
5°	8385.7	8388.3	8390.8	8378.1	8395.9	8385.7	8337.5	8297.0	8256.4	8241.2	8236.1
7.5°	8530.3	8542.9	8550.5	8563.2	8593.7	8593.7	8568.3	8510.0	8421.2	8370.5	8368.0
10°	8674.8	8684.9	8707.8	8748.3	8799.0	8847.2	8837.1	8758.5	8644.4	8558.1	8537.9
12.5°	8725.5	8738.2	8814.3	8930.9	9045.0	9138.8	9138.8	9075.4	8928.4	8796.5	8758.5
15°	8548.0	8570.8	8707.8	8956.3	9255.5	9460.9	9506.5	9417.8	9260.6	9057.7	9012.0
17.5°	8195.5	8251.3	8451.6	8819.3	9316.3	9742.3	9874.2	9831.1	9628.2	9369.6	9316.3
20°	7817.7	7878.6	8091.6	8578.4	9265.6	9907.2	10290.1	10300.2	10049.2	9673.9	9595.3
22.5°	7401.8	7447.5	7721.4	8291.9	9113.5	9945.2	10647.6	10822.6	10482.8	9978.2	9866.6
25°	6935.3	6986.0	7272.5	7888.7	8826.9	9902.1	10974.7	11360.2	10936.7	10302.7	10160.7
27.5°	6489.0	6509.3	6816.1	7442.4	8449.1	9790.5	11215.6	11854.6	11438.8	10571.5	10391.5
30°	6060.4	6108.6	6379.9	6998.7	8015.5	9572.4	11423.5	12417.6	11978.9	10853.0	10622.2
32.5°	5606.5	5664.9	5959.0	6585.3	7581.9	9245.3	11550.3	13033.7	12732.0	11309.4	11063.5
35°	5170.4	5208.4	5505.1	6113.7	7158.4	8865.0	11573.2	13728.5	13703.2	12001.7	11674.6
37.5°	4724.1	4779.9	5079.1	5662.3	6709.6	8461.8	11459.0	14466.4	14874.7	12962.7	12610.3
40°	4295.6	4343.7	4637.9	5226.2	6199.9	7969.9	11187.7	15141.0	16241.5	13951.7	13452.1
42.5°	3829.0	3841.7	4163.7	4762.1	5700.4	7399.3	10797.2	15741.9	17765.5	15277.9	14656.6
45°	3299.0	3332.0	3631.2	4219.5	5127.3	6760.3	10267.2	16238.9	19697.7	17116.3	16269.4
47.5°	2769.0	2796.9	3070.8	3651.5	4501.0	6027.5	9450.7	16675.1	21680.6	19451.7	18341.1
50°	2251.7	2267.0	2490.1	3004.9	3796.0	5256.6	8439.0	16814.5	23922.2	22758.3	21340.9
52.5°	1780.1	1802.9	1972.8	2376.0	3042.9	4346.3	7346.1	16469.7	26539.1	26678.6	24680.4
55°	1442.8	1450.4	1577.2	1873.9	2378.5	3392.8	6027.5	15508.6	29353.8	31701.9	29153.5
57.5°	1242.5	1247.6	1318.6	1483.4	1830.8	2558.6	4675.9	13690.5	31882.0	37587.4	34311.2
60°	1128.4	1130.9	1171.5	1267.9	1450.4	1962.7	3349.7	11124.3	34377.1	44137.2	40721.6
62.5°	1057.4	1057.4	1085.3	1138.6	1227.3	1506.2	2426.7	8025.6	36086.2	50783.4	48623.0
65°	988.9	988.9	1009.2	1047.3	1095.4	1232.4	1792.8	5233.8	36043.1	55624.2	56570.0
67.5°	910.3	910.3	925.5	963.6	991.5	1059.9	1384.5	3428.3	32376.4	55517.7	60906.1
70°	816.5	816.5	836.8	869.8	892.6	935.7	1092.9	2345.6	23785.3	47403.3	54166.1
72.5°	722.7	725.2	737.9	770.9	788.6	814.0	907.8	1643.2	14590.7	32277.5	37873.9
75°	618.7	623.8	636.5	669.4	684.7	694.8	765.8	1171.5	7381.6	17402.8	19814.3
77.5°	499.5	509.7	517.3	552.8	562.9	578.2	631.4	846.9	3240.7	6253.2	6308.9
80°	365.1	377.8	400.6	433.6	441.2	451.4	481.8	601.0	1468.2	2855.3	3101.2
82.5°	268.8	286.5	258.6	301.8	301.8	289.1	339.8	403.2	674.5	2827.4	3382.7
85°	147.1	149.6	134.4	154.7	164.8	162.3	180.0	197.8	327.1	1886.6	1944.9
87.5°	35.5	38.0	40.6	48.2	58.3	58.3	63.4	55.8	106.5	611.1	349.9
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)