

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: P457659

Luminaire Tested: **GALN-SA9A-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457659
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-SA9A-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37690 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

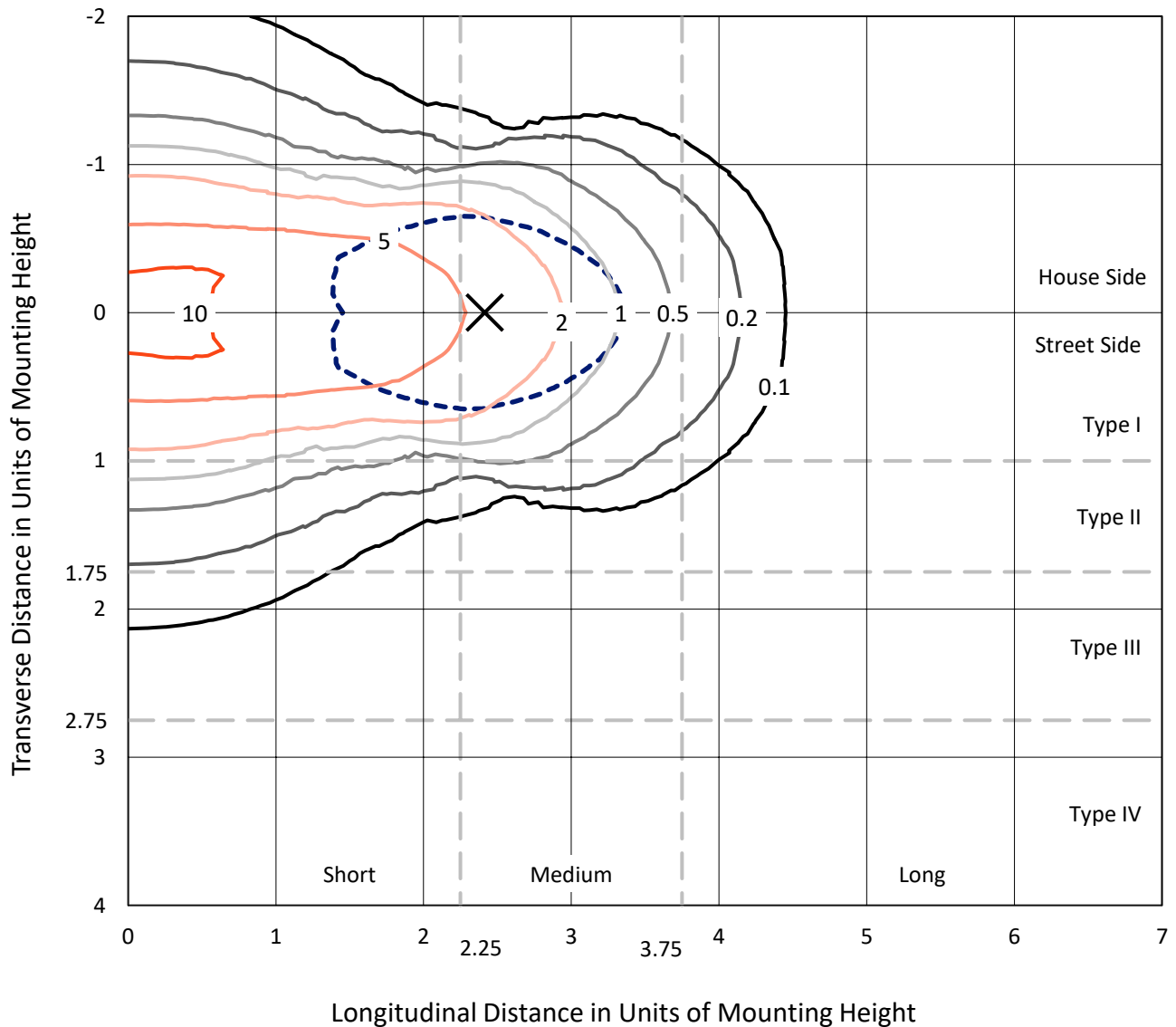
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

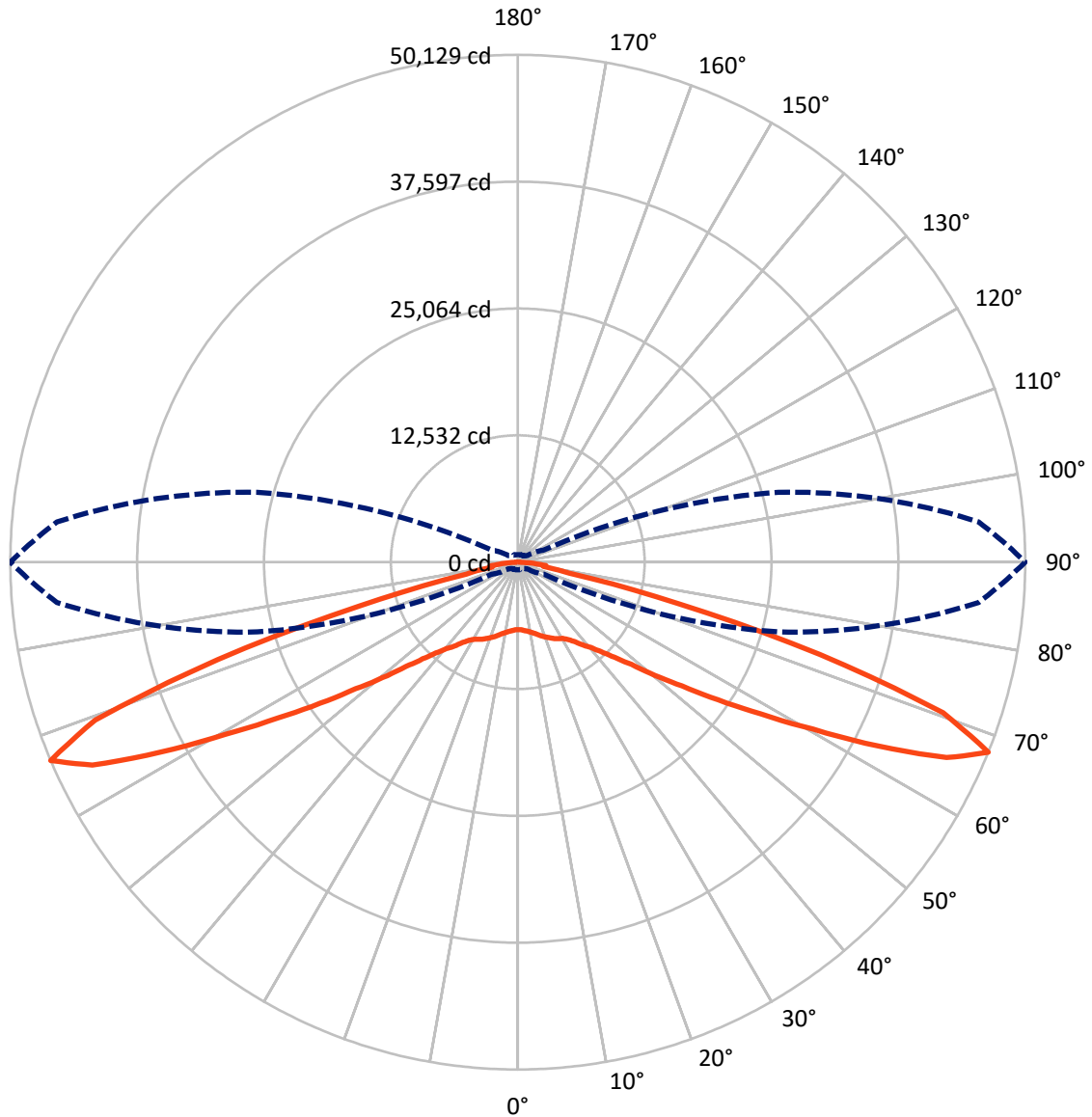
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	18845.0	0.0	18845.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18845.0	0.0	18845.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37690.0	0.0	37690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.2	1.8
10°-20°	2128.4	5.6
20°-30°	3562.3	9.5
30°-40°	4826.0	12.8
40°-50°	6113.0	16.2
50°-60°	7636.7	20.3
60°-70°	8976.5	23.8
70°-80°	3433.9	9.1
80°-90°	347.9	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°	37690.0	100.0
0°-180°	37690.0	100.0

Coefficient of Utilization



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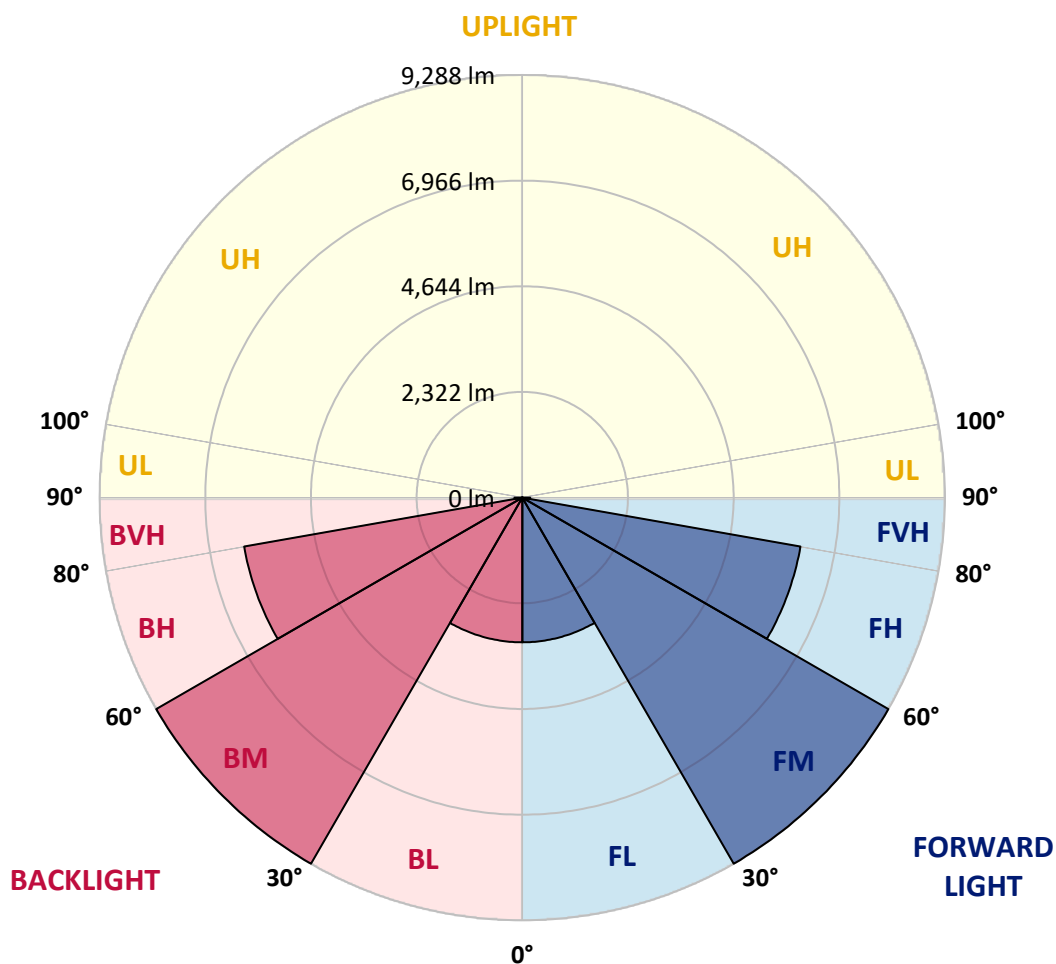
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3178.0	8.4			
FM (30°-60°)	9287.8	24.6			
FH (60°-80°)	6205.2	16.5			G3/7500
FVH (80°-90°)	174.0	0.5			G2/225
BL (0°-30°)	3178.0	8.4	B4/5000		
BM (30°-60°)	9287.8	24.6	B5		
BH (60°-80°)	6205.2	16.5	B5		G5
BVH (80°-90°)	174.0	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°	6672.3	6672.3	6672.3	6672.3	6672.3	6672.3	6672.3	6672.3	6672.3	6672.3	6672.3
2.5°	6757.9	6753.7	6755.8	6753.7	6760.0	6755.8	6730.7	6709.9	6693.2	6695.3	6689.0
5°	6901.9	6904.0	6906.1	6895.6	6910.2	6901.9	6862.2	6828.8	6795.4	6782.9	6778.7
7.5°	7020.8	7031.3	7037.5	7048.0	7073.0	7073.0	7052.1	7004.1	6931.1	6889.4	6887.3
10°	7139.8	7148.2	7166.9	7200.3	7242.1	7281.7	7273.4	7208.7	7114.8	7043.8	7027.1
12.5°	7181.5	7192.0	7254.6	7350.6	7444.5	7521.7	7521.7	7469.6	7348.5	7240.0	7208.7
15°	7035.5	7054.2	7166.9	7371.5	7617.7	7786.8	7824.4	7751.3	7621.9	7454.9	7417.4
17.5°	6745.4	6791.3	6956.1	7258.8	7667.8	8018.5	8127.0	8091.5	7924.5	7711.7	7667.8
20°	6434.4	6484.5	6659.8	7060.5	7626.1	8154.1	8469.3	8477.6	8271.0	7962.1	7897.4
22.5°	6092.1	6129.7	6355.1	6824.7	7500.9	8185.4	8763.5	8907.5	8627.9	8212.5	8120.7
25°	5708.1	5749.8	5985.7	6492.8	7265.0	8149.9	9032.8	9350.0	9001.5	8479.7	8362.8
27.5°	5340.8	5357.5	5610.0	6125.5	6954.1	8058.1	9231.0	9757.0	9414.7	8700.9	8552.7
30°	4988.1	5027.7	5251.0	5760.3	6597.2	7878.6	9402.2	10220.3	9859.2	8932.6	8742.7
32.5°	4614.5	4662.5	4904.6	5420.1	6240.3	7609.4	9506.5	10727.4	10479.1	9308.2	9105.8
35°	4255.5	4286.8	4531.0	5031.9	5891.7	7296.3	9525.3	11299.3	11278.4	9878.0	9608.8
37.5°	3888.2	3934.1	4180.4	4660.4	5522.3	6964.5	9431.4	11906.6	12242.6	10669.0	10378.9
40°	3535.5	3575.1	3817.2	4301.4	5102.8	6559.6	9208.1	12461.8	13367.6	11483.0	11071.8
42.5°	3151.4	3161.9	3426.9	3919.5	4691.7	6090.0	8886.7	12956.4	14621.9	12574.5	12063.2
45°	2715.3	2742.4	2988.7	3472.9	4220.0	5564.1	8450.5	13365.5	16212.2	14087.6	13390.5
47.5°	2279.1	2302.0	2527.4	3005.4	3704.5	4960.9	7778.4	13724.5	17844.3	16009.8	15095.6
50°	1853.3	1865.8	2049.5	2473.2	3124.3	4326.5	6945.7	13839.2	19689.2	18731.3	17564.6
52.5°	1465.1	1483.9	1623.7	1955.6	2504.5	3577.2	6046.2	13555.4	21843.1	21957.9	20313.3
55°	1187.5	1193.8	1298.1	1542.3	1957.7	2792.5	4960.9	12764.4	24159.7	26092.3	23994.8
57.5°	1022.7	1026.8	1085.3	1220.9	1506.9	2105.8	3848.5	11268.0	26240.5	30936.4	28239.9
60°	928.7	930.8	964.2	1043.5	1193.8	1615.4	2757.0	9155.9	28294.2	36327.2	33516.0
62.5°	870.3	870.3	893.3	937.1	1010.1	1239.7	1997.3	6605.5	29700.8	41797.4	40019.2
65°	814.0	814.0	830.6	862.0	901.6	1014.3	1475.5	4307.7	29665.3	45781.6	46560.0
67.5°	749.3	749.3	761.8	793.1	816.0	872.4	1139.5	2821.7	26647.5	45693.9	50128.9
70°	672.0	672.0	688.7	715.9	734.6	770.1	899.5	1930.5	19576.5	39015.3	44581.5
72.5°	594.8	596.9	607.3	634.5	649.1	669.9	747.2	1352.4	12008.9	26566.1	31172.2
75°	509.2	513.4	523.8	551.0	563.5	571.9	630.3	964.2	6075.4	14323.4	16308.2
77.5°	411.1	419.5	425.8	455.0	463.3	475.8	519.7	697.1	2667.3	5146.7	5192.6
80°	300.5	311.0	329.8	356.9	363.1	371.5	396.5	494.6	1208.4	2350.0	2552.5
82.5°	221.2	235.8	212.9	248.4	248.4	237.9	279.7	331.8	555.2	2327.1	2784.1
85°	121.0	123.1	110.6	127.3	135.7	133.6	148.2	162.8	269.2	1552.8	1600.8
87.5°	29.2	31.3	33.4	39.7	48.0	48.0	52.2	45.9	87.7	503.0	288.0
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)