

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: P456731

Luminaire Tested: **GALN-SA8A-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456731
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-SA8A-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 33572 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

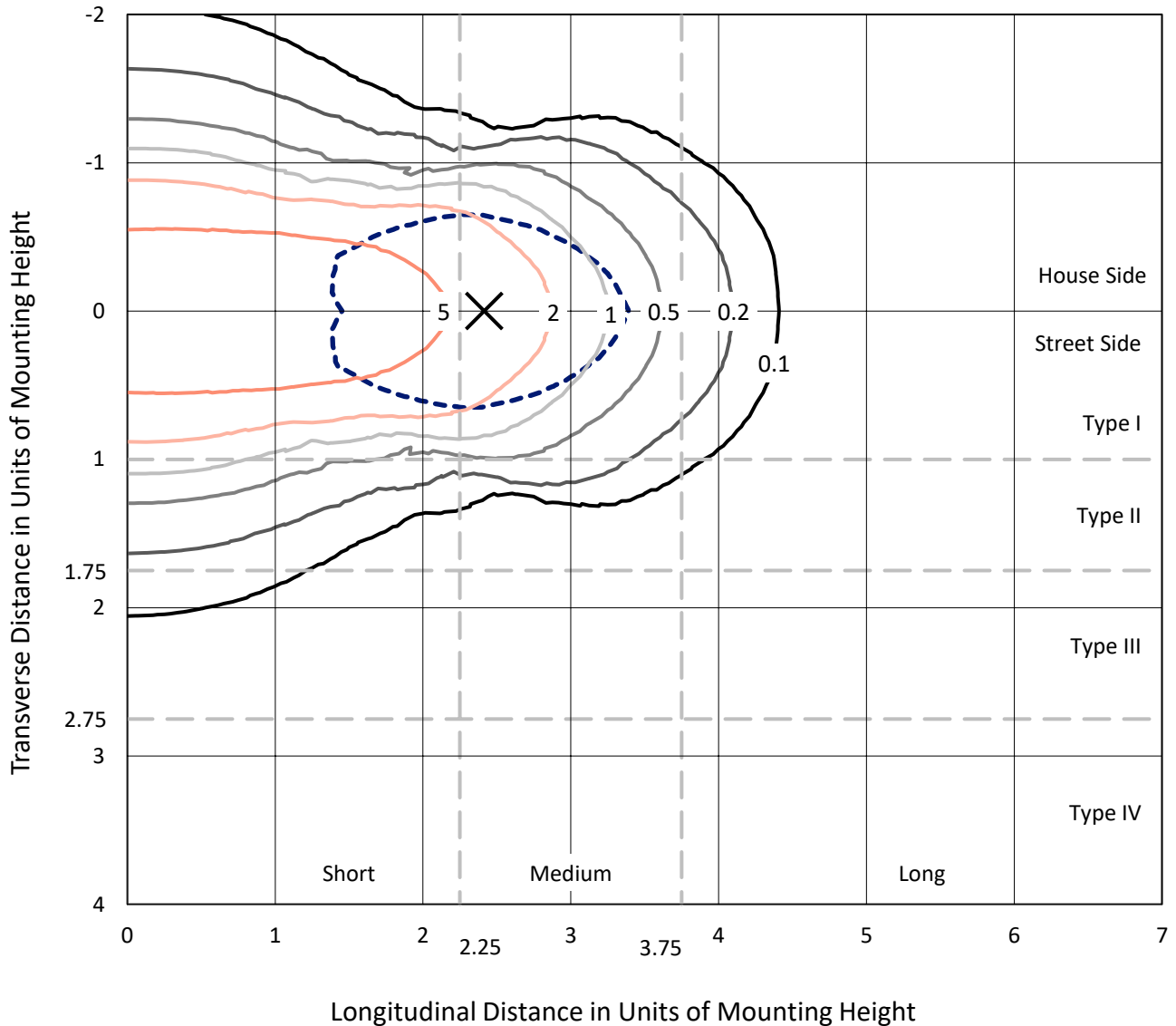
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456731
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Iso-Footcandle Lines of Horizontal Illumination

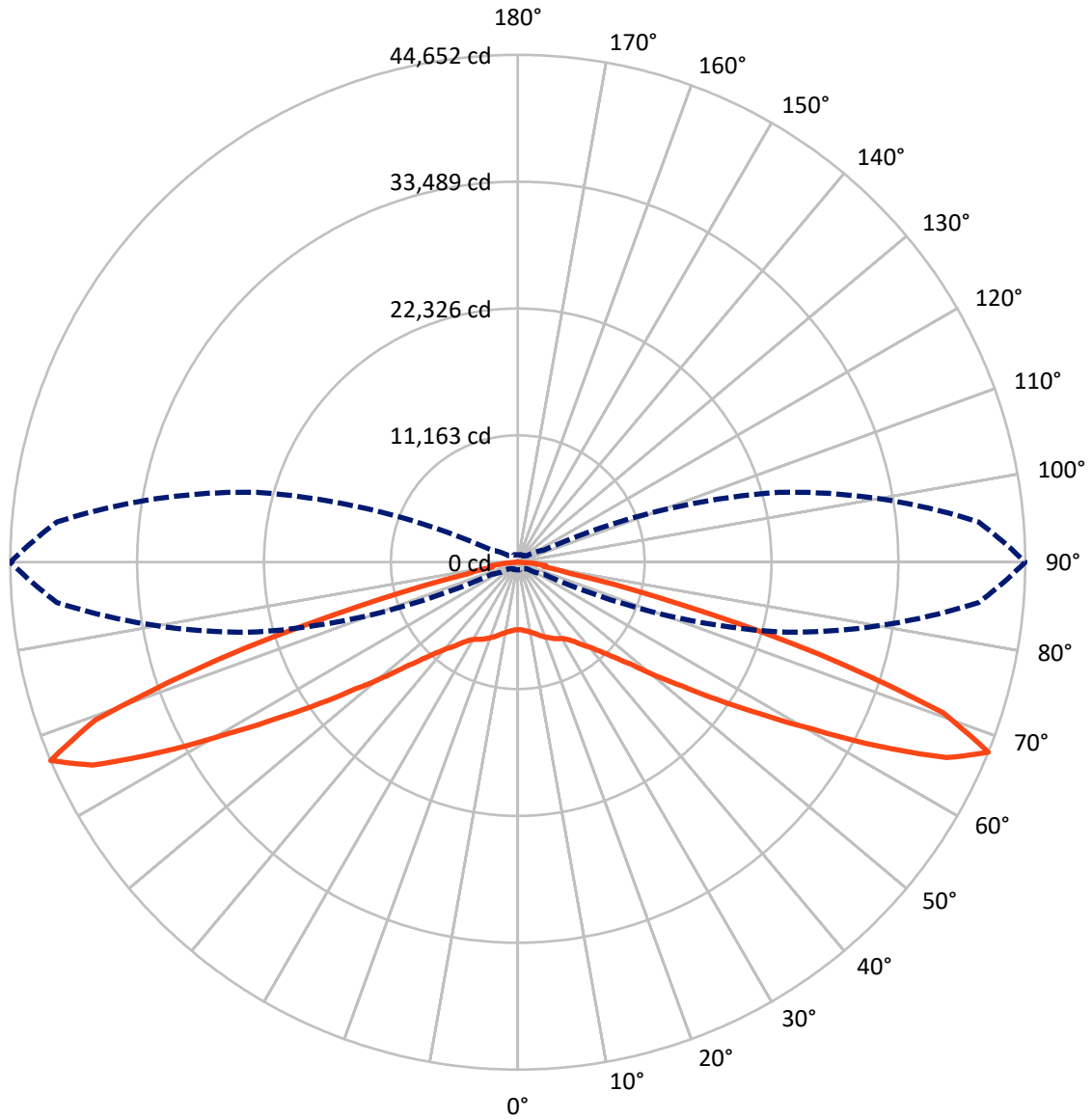
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type I - Short - N/A

REPORT NUMBER: P456731
CATALOG NUMBER: GALN-SA8A-730-U-T1

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA8A-730-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16786.0	0.0	16786.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16786.0	0.0	16786.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33572.0	0.0	33572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.5	1.8
10°-20°	1895.8	5.6
20°-30°	3173.1	9.5
30°-40°	4298.8	12.8
40°-50°	5445.1	16.2
50°-60°	6802.3	20.3
60°-70°	7995.8	23.8
70°-80°	3058.7	9.1
80°-90°	309.9	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°	33572.0	100.0
0°-180°	33572.0	100.0



REPORT NUMBER: P456731

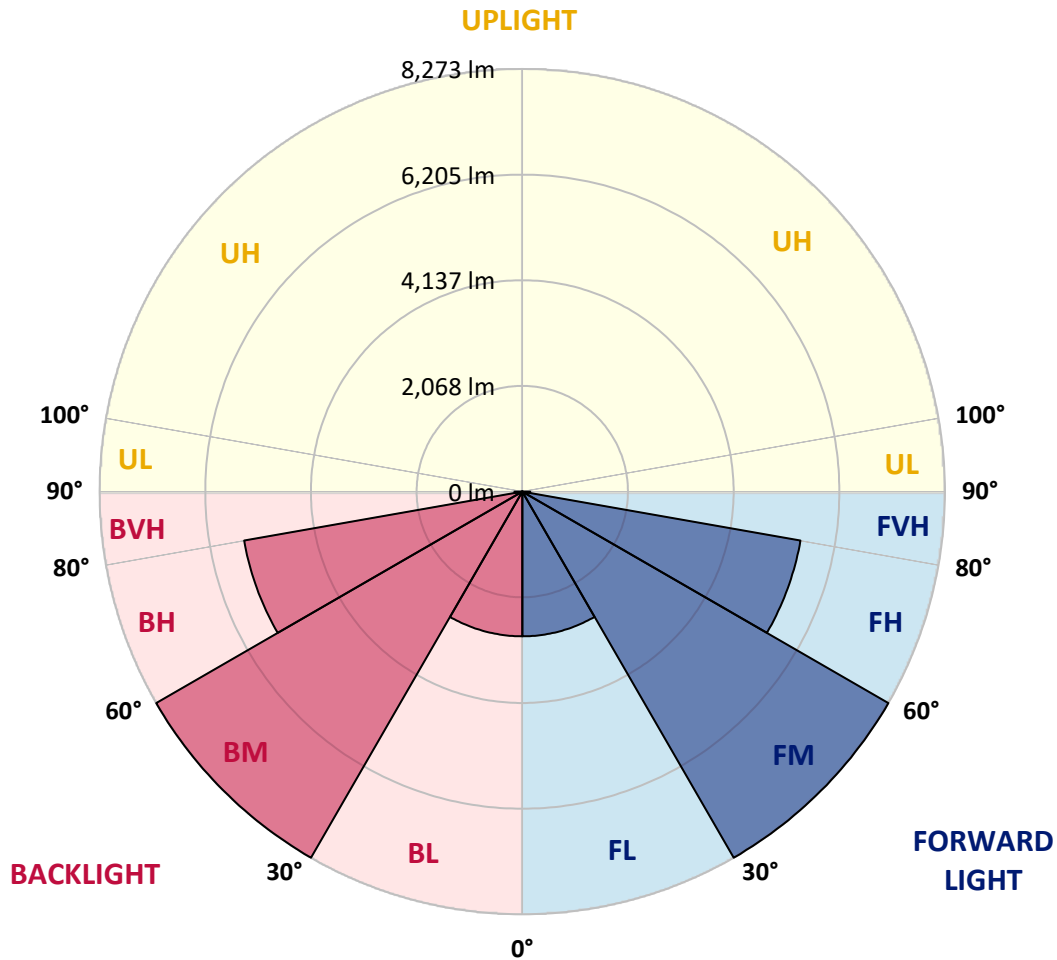
CATALOG NUMBER: GALN-SA8A-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2830.7	8.4			
FM (30°-60°)	8273.1	24.6			
FH (60°-80°)	5527.3	16.5			G3/7500
FVH (80°-90°)	154.9	0.5			G2/225
BL (0°-30°)	2830.7	8.4	B4/5000		
BM (30°-60°)	8273.1	24.6	B4/8500		
BH (60°-80°)	5527.3	16.5	B5		G5
BVH (80°-90°)	154.9	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°	5943.3	5943.3	5943.3	5943.3	5943.3	5943.3	5943.3	5943.3	5943.3	5943.3	5943.3
2.5°	6019.5	6015.8	6017.7	6015.8	6021.4	6017.7	5995.3	5976.8	5961.9	5963.7	5958.2
5°	6147.8	6149.6	6151.5	6142.2	6155.2	6147.8	6112.5	6082.7	6053.0	6041.8	6038.1
7.5°	6253.7	6263.0	6268.6	6277.9	6300.2	6300.2	6281.6	6238.9	6173.8	6136.6	6134.8
10°	6359.7	6367.1	6383.9	6413.6	6450.8	6486.1	6478.7	6421.1	6337.4	6274.2	6259.3
12.5°	6396.9	6406.2	6462.0	6547.5	6631.1	6699.9	6699.9	6653.4	6545.6	6448.9	6421.1
15°	6266.8	6283.5	6383.9	6566.1	6785.4	6936.0	6969.5	6904.4	6789.1	6640.4	6607.0
17.5°	6008.4	6049.3	6196.1	6465.7	6830.0	7142.4	7239.0	7207.4	7058.7	6869.1	6830.0
20°	5731.4	5776.0	5932.1	6289.1	6792.9	7263.2	7543.9	7551.3	7367.3	7092.2	7034.5
22.5°	5426.5	5459.9	5660.7	6079.0	6681.3	7291.1	7806.0	7934.3	7685.2	7315.2	7233.4
25°	5084.4	5121.6	5331.7	5783.4	6471.3	7259.5	8045.8	8328.4	8018.0	7553.2	7449.1
27.5°	4757.2	4772.1	4997.0	5456.2	6194.3	7177.7	8222.4	8690.9	8386.0	7750.3	7618.3
30°	4443.1	4478.4	4677.3	5130.9	5876.4	7017.8	8374.9	9103.6	8782.0	7956.6	7787.4
32.5°	4110.3	4153.1	4368.7	4827.9	5558.5	6778.0	8467.8	9555.4	9334.1	8291.2	8110.9
35°	3790.5	3818.4	4035.9	4482.1	5248.0	6499.1	8484.6	10064.7	10046.1	8798.7	8558.9
37.5°	3463.4	3504.3	3723.6	4151.2	4919.0	6203.6	8400.9	10605.7	10905.0	9503.3	9244.9
40°	3149.2	3184.5	3400.1	3831.4	4545.3	5842.9	8202.0	11100.2	11907.0	10228.3	9862.1
42.5°	2807.1	2816.4	3052.5	3491.2	4179.1	5424.6	7915.7	11540.8	13024.3	11200.6	10745.1
45°	2418.6	2442.8	2662.1	3093.4	3758.9	4956.1	7527.2	11905.2	14440.9	12548.4	11927.5
47.5°	2030.1	2050.5	2251.3	2677.0	3299.8	4418.9	6928.6	12224.9	15894.6	14260.5	13446.3
50°	1650.8	1662.0	1825.6	2202.9	2783.0	3853.7	6186.8	12327.2	17538.0	16684.7	15645.5
52.5°	1305.0	1321.8	1446.3	1741.9	2230.8	3186.4	5385.6	12074.3	19456.5	19558.8	18093.8
55°	1057.8	1063.4	1156.3	1373.8	1743.8	2487.4	4418.9	11369.8	21520.0	23241.5	21373.2
57.5°	910.9	914.6	966.7	1087.5	1342.2	1875.8	3428.0	10036.9	23373.5	27556.3	25154.4
60°	827.3	829.1	858.9	929.5	1063.4	1438.9	2455.8	8155.5	25202.7	32358.1	29854.0
62.5°	775.2	775.2	795.7	834.7	899.8	1104.3	1779.1	5883.8	26455.7	37230.6	35646.7
65°	725.0	725.0	739.9	767.8	803.1	903.5	1314.3	3837.0	26424.1	40779.5	41472.9
67.5°	667.4	667.4	678.5	706.4	726.9	777.1	1015.0	2513.4	23736.0	40701.4	44651.8
70°	598.6	598.6	613.5	637.6	654.4	686.0	801.2	1719.6	17437.6	34752.5	39710.5
72.5°	529.8	531.7	541.0	565.1	578.2	596.7	665.5	1204.6	10696.8	23663.5	27766.3
75°	453.6	457.3	466.6	490.8	501.9	509.4	561.4	858.9	5411.6	12758.5	14526.4
77.5°	366.2	373.7	379.2	405.3	412.7	423.9	462.9	620.9	2375.8	4584.3	4625.2
80°	267.7	277.0	293.7	317.9	323.5	330.9	353.2	440.6	1076.4	2093.3	2273.6
82.5°	197.1	210.1	189.6	221.2	221.2	211.9	249.1	295.6	494.5	2072.8	2479.9
85°	107.8	109.7	98.5	113.4	120.8	119.0	132.0	145.0	239.8	1383.1	1425.9
87.5°	26.0	27.9	29.7	35.3	42.8	42.8	46.5	40.9	78.1	448.0	256.5
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)