

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: P456267

Luminaire Tested: **GALN-SA7C-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456267
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-SA7C-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44517 lumens
Efficiency: N/A
Efficacy: 118.1 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

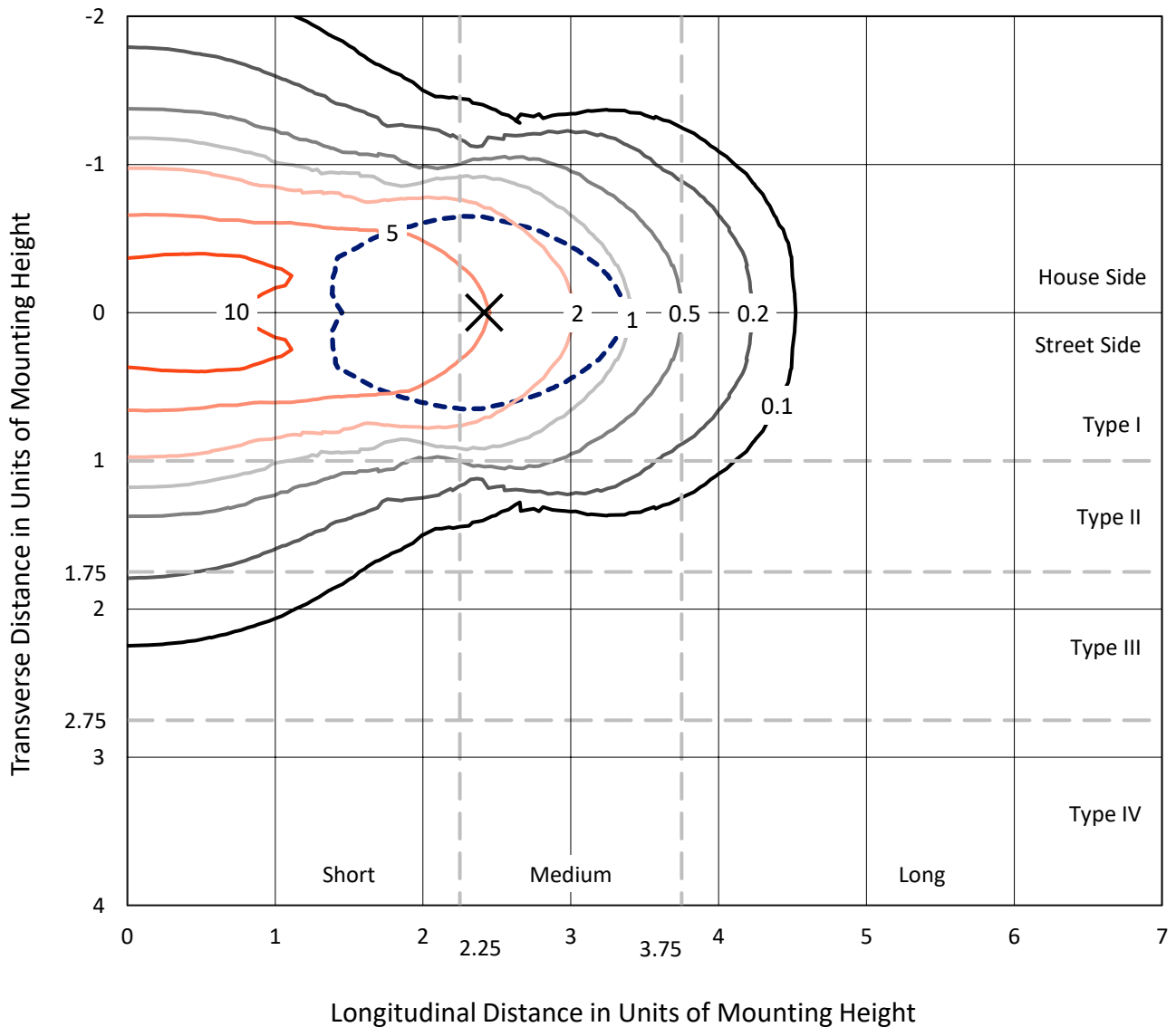
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

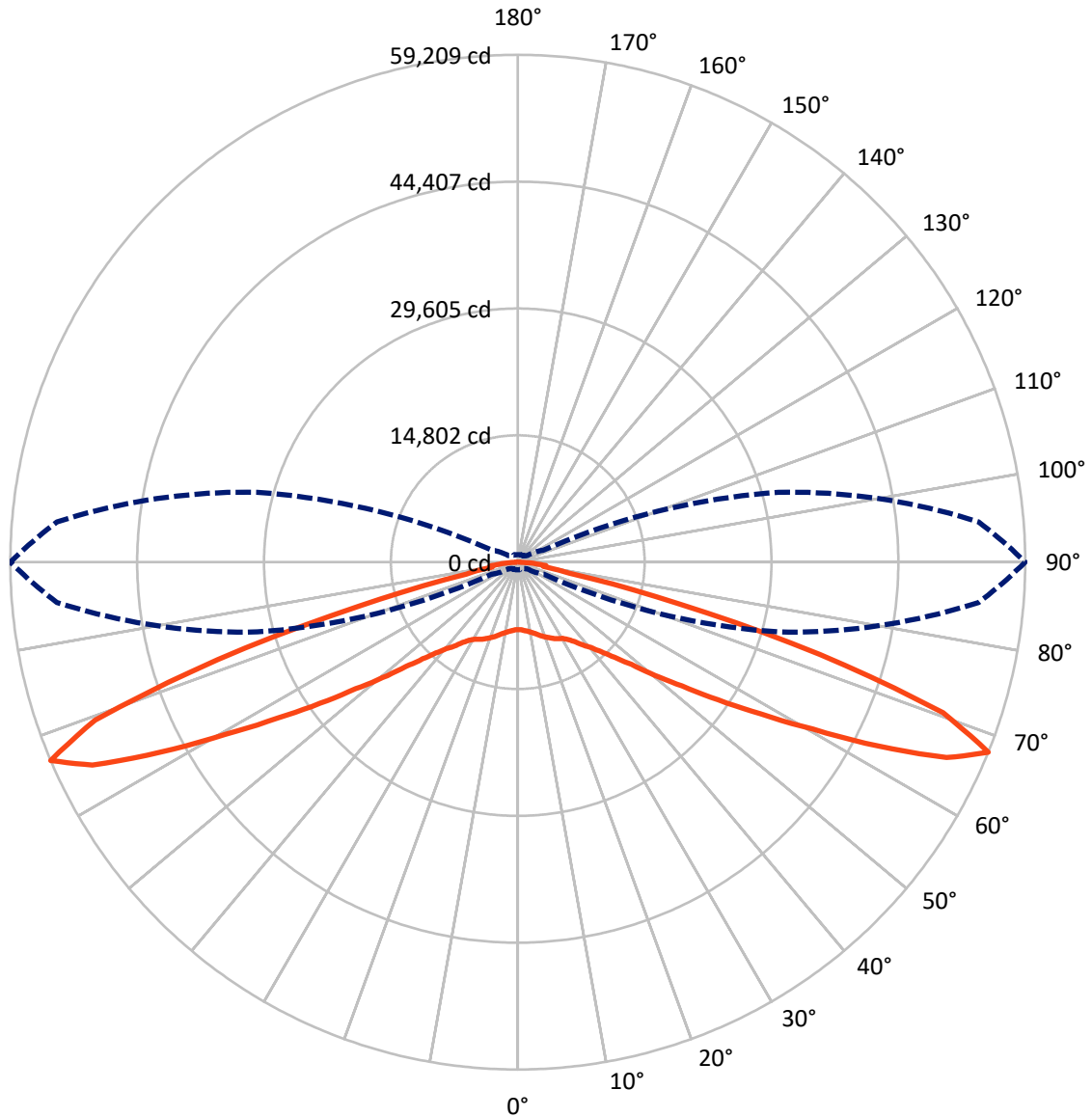
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	22258.5	0.0	22258.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22258.5	0.0	22258.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44517.0	0.0	44517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.7	1.8
10°-20°	2513.9	5.6
20°-30°	4207.6	9.5
30°-40°	5700.2	12.8
40°-50°	7220.3	16.2
50°-60°	9019.9	20.3
60°-70°	10602.5	23.8
70°-80°	4055.9	9.1
80°-90°	410.9	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°	44517.0	100.0
0°-180°	44517.0	100.0

Coefficient of Utilization



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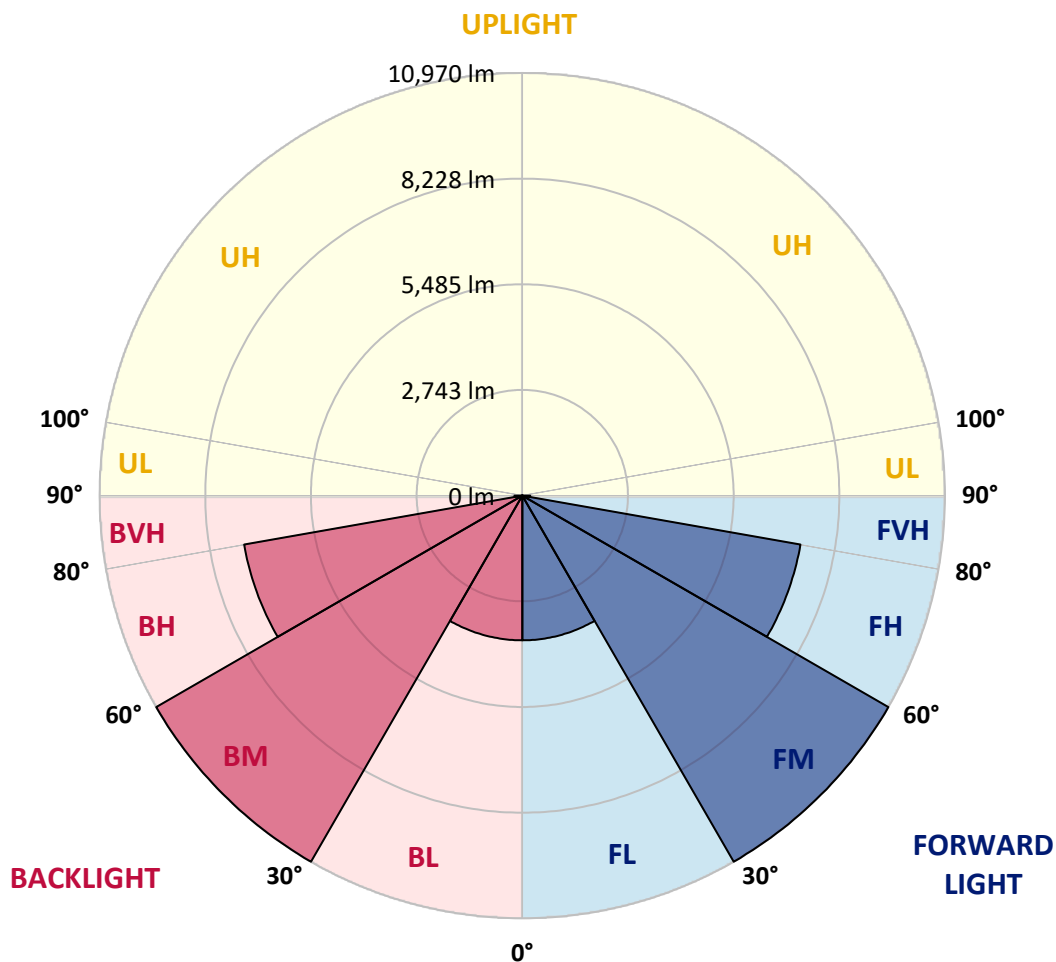
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3753.6	8.4			
FM	(30°-60°)	10970.2	24.6			
FH	(60°-80°)	7329.2	16.5			G3/7500
FVH	(80°-90°)	205.4	0.5			G2/225
BL	(0°-30°)	3753.6	8.4	B4/5000		
BM	(30°-60°)	10970.2	24.6	B5		
BH	(60°-80°)	7329.2	16.5	B5		G5
BVH	(80°-90°)	205.4	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°	7880.9	7880.9	7880.9	7880.9	7880.9	7880.9	7880.9	7880.9	7880.9	7880.9	7880.9
2.5°	7982.0	7977.0	7979.5	7977.0	7984.4	7979.5	7949.9	7925.3	7905.5	7908.0	7900.6
5°	8152.1	8154.5	8157.0	8144.7	8161.9	8152.1	8105.2	8065.8	8026.3	8011.5	8006.6
7.5°	8292.6	8304.9	8312.3	8324.6	8354.2	8354.2	8329.5	8272.8	8186.6	8137.3	8134.8
10°	8433.1	8442.9	8465.1	8504.6	8553.9	8600.7	8590.8	8514.4	8403.5	8319.7	8300.0
12.5°	8482.4	8494.7	8568.7	8682.0	8793.0	8884.2	8884.2	8822.6	8679.6	8551.4	8514.4
15°	8309.8	8332.0	8465.1	8706.7	8997.6	9197.3	9241.6	9155.3	9002.5	8805.3	8760.9
17.5°	7967.2	8021.4	8216.1	8573.6	9056.7	9470.9	9599.1	9557.2	9359.9	9108.5	9056.7
20°	7599.9	7659.0	7866.1	8339.4	9007.4	9631.1	10003.3	10013.2	9769.2	9404.3	9327.9
22.5°	7195.6	7240.0	7506.2	8060.8	8859.5	9668.1	10350.9	10521.0	10190.7	9700.1	9591.7
25°	6742.0	6791.3	7069.9	7668.9	8581.0	9626.2	10668.9	11043.6	10631.9	10015.7	9877.6
27.5°	6308.2	6327.9	6626.2	7235.0	8213.7	9517.7	10903.1	11524.3	11120.0	10277.0	10101.9
30°	5891.6	5938.4	6202.2	6803.7	7792.2	9305.7	11105.2	12071.5	11645.1	10550.6	10326.3
32.5°	5450.3	5507.0	5793.0	6401.8	7370.6	8987.7	11228.5	12670.6	12377.2	10994.3	10755.2
35°	5026.3	5063.3	5351.7	5943.3	6959.0	8618.0	11250.7	13346.0	13321.4	11667.3	11349.3
37.5°	4592.5	4646.7	4937.6	5504.5	6522.6	8226.0	11139.7	14063.3	14460.2	12601.5	12258.9
40°	4175.9	4222.7	4508.7	5080.6	6027.1	7747.8	10876.0	14719.1	15788.9	13562.9	13077.3
42.5°	3722.3	3734.6	4047.7	4629.4	5541.5	7193.1	10496.4	15303.3	17270.4	14852.2	14248.2
45°	3207.1	3239.1	3530.0	4101.9	4984.4	6571.9	9981.2	15786.4	19148.8	16639.4	15816.0
47.5°	2691.9	2719.0	2985.2	3549.7	4375.5	5859.5	9187.4	16210.4	21076.5	18909.7	17830.0
50°	2189.0	2203.8	2420.7	2921.1	3690.2	5110.1	8203.8	16346.0	23255.7	22124.2	20746.2
52.5°	1730.5	1752.7	1917.8	2309.8	2958.1	4225.2	7141.4	16010.8	25799.6	25935.2	23992.7
55°	1402.6	1410.0	1533.3	1821.7	2312.3	3298.3	5859.5	15076.5	28535.9	30818.6	28341.1
57.5°	1207.9	1212.8	1281.8	1442.1	1779.8	2487.3	4545.6	13309.0	30993.6	36540.0	33355.1
60°	1097.0	1099.4	1138.9	1232.5	1410.0	1908.0	3256.4	10814.4	33419.2	42907.4	39586.9
62.5°	1027.9	1027.9	1055.1	1106.8	1193.1	1464.3	2359.1	7802.0	35080.7	49368.4	47268.1
65°	961.4	961.4	981.1	1018.1	1064.9	1198.0	1742.8	5087.9	35038.8	54074.2	54993.7
67.5°	885.0	885.0	899.8	936.7	963.9	1030.4	1345.9	3332.8	31474.3	53970.7	59209.0
70°	793.8	793.8	813.5	845.5	867.7	909.6	1062.5	2280.2	23122.6	46082.4	52656.8
72.5°	702.6	705.0	717.3	749.4	766.6	791.3	882.5	1597.4	14184.1	31378.1	36818.6
75°	601.5	606.4	618.7	650.8	665.6	675.4	744.5	1138.9	7175.9	16917.9	19262.2
77.5°	485.6	495.5	502.9	537.4	547.3	562.0	613.8	823.3	3150.4	6078.9	6133.1
80°	355.0	367.3	389.5	421.5	428.9	438.8	468.4	584.2	1427.3	2775.7	3014.8
82.5°	261.3	278.6	251.4	293.3	293.3	281.0	330.3	391.9	655.7	2748.6	3288.4
85°	143.0	145.4	130.6	150.4	160.2	157.8	175.0	192.3	318.0	1834.0	1890.7
87.5°	34.5	37.0	39.4	46.8	56.7	56.7	61.6	54.2	103.5	594.1	340.2
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)