

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: P456499

Luminaire Tested: **GALN-SA7D-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456499
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-SA7D-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48985 lumens
Efficiency: N/A
Efficacy: 113.1 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

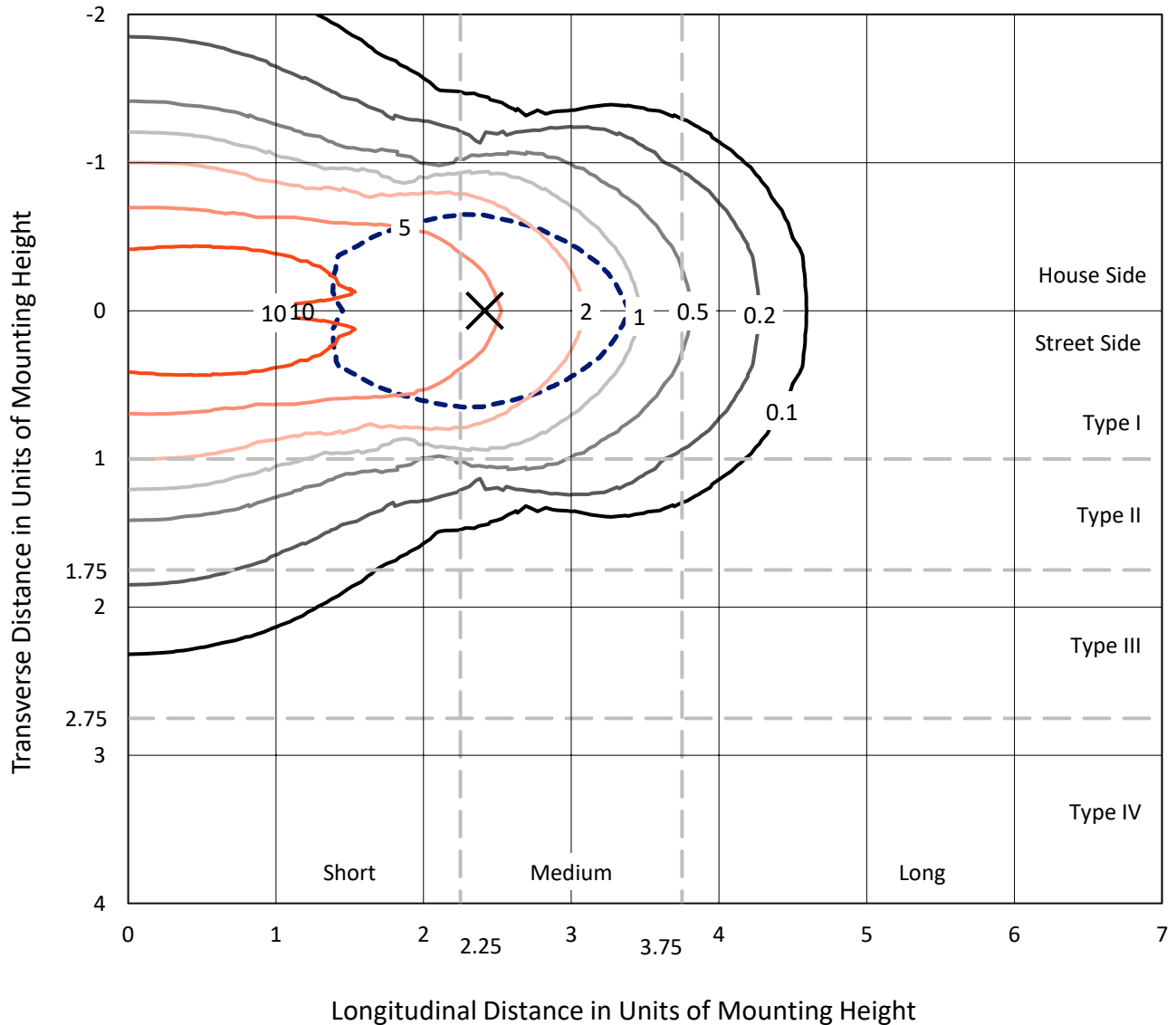
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

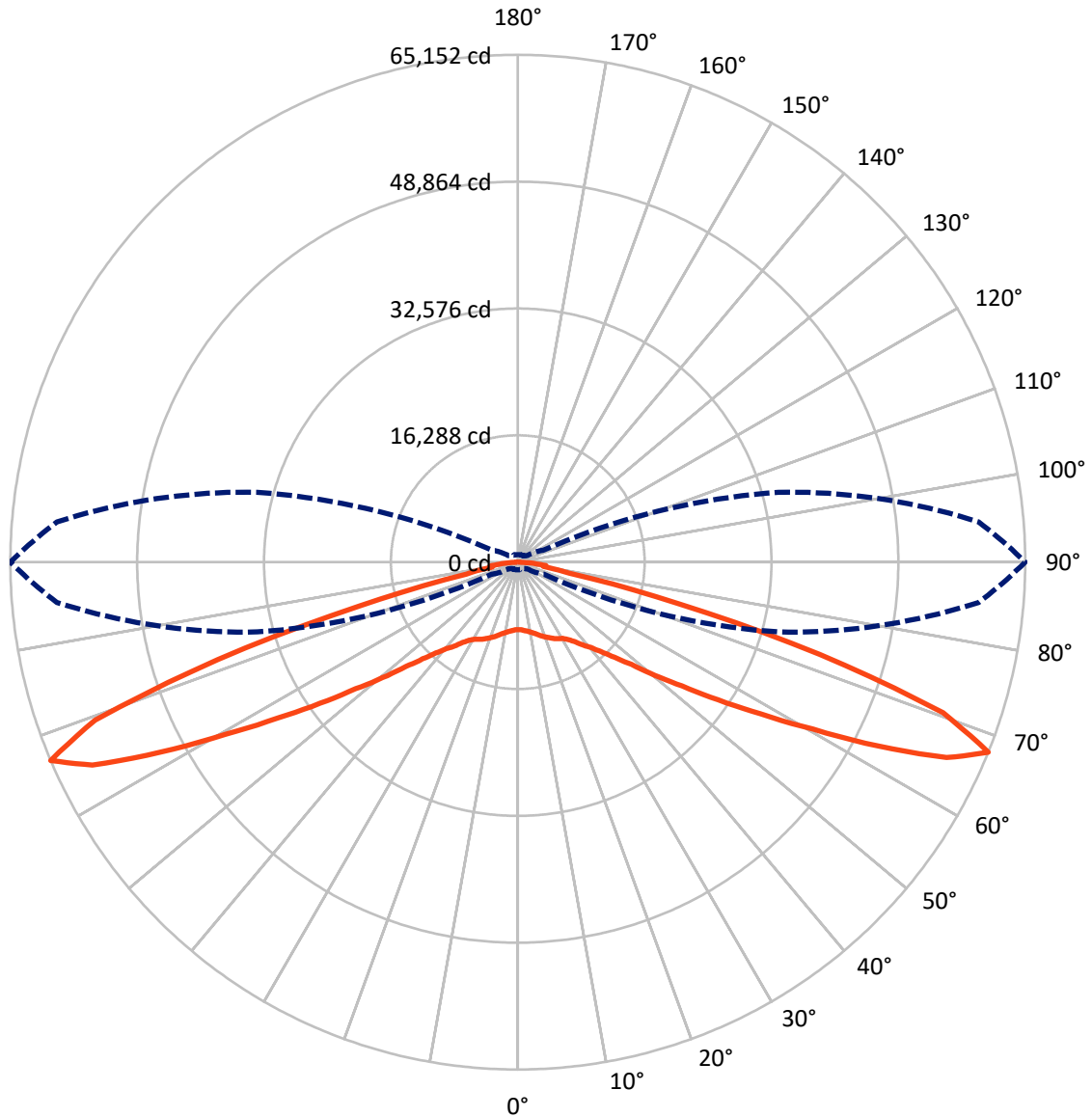
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	24492.5	0.0	24492.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24492.5	0.0	24492.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	48985.0	0.0	48985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.6	1.8
10°-20°	2766.2	5.6
20°-30°	4629.9	9.5
30°-40°	6272.3	12.8
40°-50°	7944.9	16.2
50°-60°	9925.2	20.3
60°-70°	11666.6	23.8
70°-80°	4463.0	9.1
80°-90°	452.2	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°	48985.0	100.0
0°-180°	48985.0	100.0

Coefficient of Utilization



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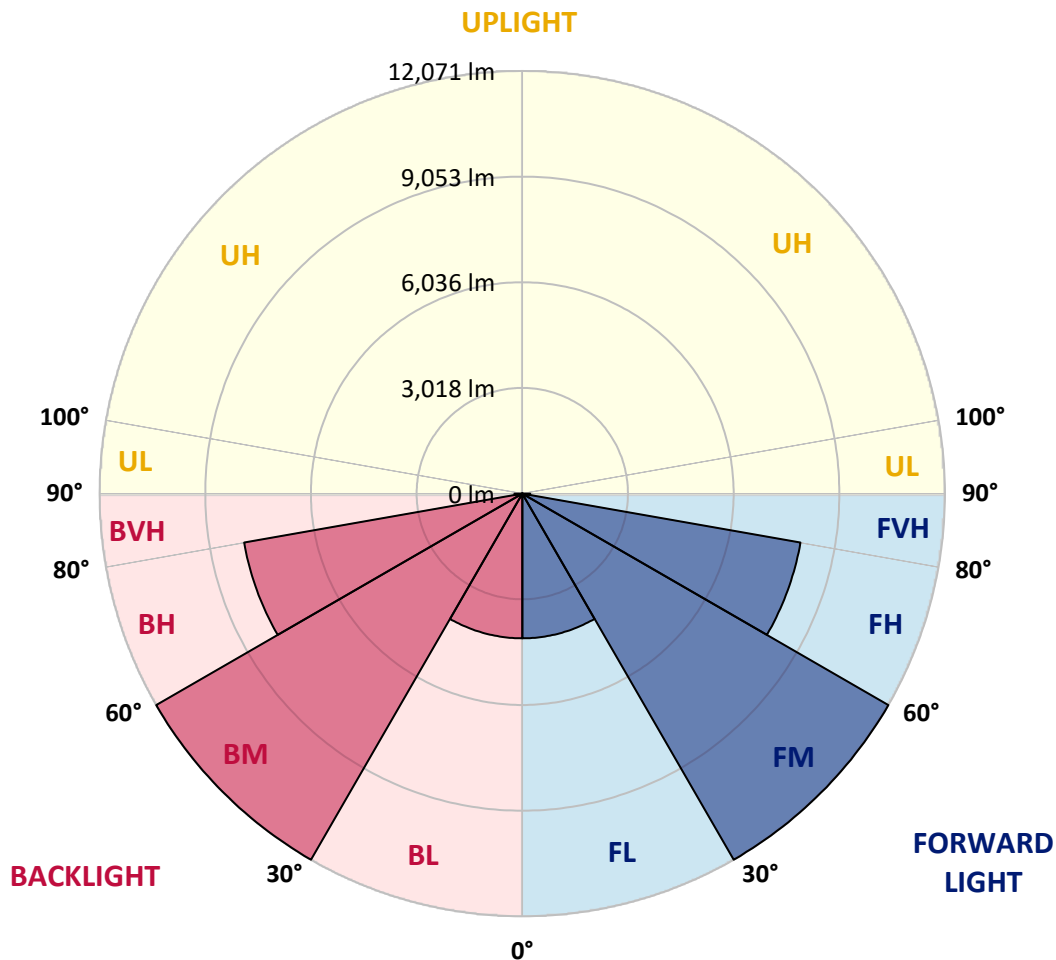
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4130.4	8.4			
FM	(30°-60°)	12071.2	24.6			
FH	(60°-80°)	8064.8	16.5			G4/12000
FVH	(80°-90°)	226.1	0.5			G3/500
BL	(0°-30°)	4130.4	8.4	B4/5000		
BM	(30°-60°)	12071.2	24.6	B5		
BH	(60°-80°)	8064.8	16.5	B5		G5
BVH	(80°-90°)	226.1	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8671.9	8671.9	8671.9	8671.9	8671.9	8671.9	8671.9	8671.9	8671.9	8671.9	8671.9
2.5°	8783.1	8777.7	8780.4	8777.7	8785.8	8780.4	8747.8	8720.7	8699.0	8701.7	8693.6
5°	8970.2	8973.0	8975.7	8962.1	8981.1	8970.2	8918.7	8875.3	8831.9	8815.6	8810.2
7.5°	9124.9	9138.4	9146.6	9160.1	9192.7	9192.7	9165.5	9103.2	9008.2	8954.0	8951.3
10°	9279.5	9290.3	9314.7	9358.1	9412.4	9463.9	9453.1	9369.0	9246.9	9154.7	9133.0
12.5°	9333.7	9347.3	9428.7	9553.4	9675.5	9775.9	9775.9	9708.0	9550.7	9409.7	9369.0
15°	9143.8	9168.3	9314.7	9580.6	9900.6	10120.3	10169.2	10074.2	9906.1	9689.1	9640.2
17.5°	8766.8	8826.5	9040.8	9434.1	9965.7	10421.4	10562.5	10516.4	10299.4	10022.7	9965.7
20°	8362.6	8427.7	8655.6	9176.4	9911.5	10597.7	11007.3	11018.2	10749.6	10348.2	10264.1
22.5°	7917.8	7966.6	8259.6	8869.9	9748.7	10638.4	11389.8	11577.0	11213.5	10673.7	10554.3
25°	7418.7	7472.9	7779.5	8438.6	9442.2	10592.3	11739.7	12152.0	11699.0	11020.9	10869.0
27.5°	6941.3	6963.0	7291.2	7961.2	9038.1	10473.0	11997.4	12680.9	12236.1	11308.4	11115.8
30°	6482.9	6534.4	6824.7	7486.5	8574.2	10239.7	12219.8	13283.1	12813.9	11609.5	11362.7
32.5°	5997.3	6059.7	6374.4	7044.4	8110.4	9889.8	12355.4	13942.3	13619.5	12097.8	11834.6
35°	5530.8	5571.5	5888.8	6539.8	7657.4	9482.9	12379.9	14685.5	14658.4	12838.3	12488.4
37.5°	5053.4	5113.1	5433.1	6057.0	7177.3	9051.6	12257.8	15474.8	15911.5	13866.3	13489.3
40°	4595.0	4646.5	4961.2	5590.5	6632.1	8525.4	11967.6	16196.4	17373.6	14924.2	14389.8
42.5°	4095.9	4109.4	4453.9	5094.1	6097.7	7915.1	11549.8	16839.2	19003.8	16342.8	15678.3
45°	3529.0	3564.2	3884.3	4513.6	5484.7	7231.5	10982.9	17370.9	21070.7	18309.4	17403.4
47.5°	2962.1	2991.9	3284.8	3906.0	4814.7	6447.6	10109.5	17837.4	23191.9	20807.6	19619.5
50°	2408.7	2425.0	2663.7	3214.3	4060.6	5623.0	9027.2	17986.6	25589.7	24344.7	22828.4
52.5°	1904.2	1928.6	2110.3	2541.6	3255.0	4649.2	7858.1	17617.7	28389.1	28538.2	26400.8
55°	1543.4	1551.6	1687.2	2004.5	2544.3	3629.3	6447.6	16589.7	31399.9	33911.7	31185.6
57.5°	1329.1	1334.6	1410.5	1586.8	1958.4	2736.9	5001.9	14644.8	34104.3	40207.4	36702.9
60°	1207.1	1209.8	1253.2	1356.3	1551.6	2099.5	3583.2	11899.7	36773.4	47213.8	43560.1
62.5°	1131.1	1131.1	1161.0	1217.9	1312.9	1611.2	2595.9	8585.1	38601.6	54323.3	52012.2
65°	1057.9	1057.9	1079.6	1120.3	1171.8	1318.3	1917.7	5598.6	38555.5	59501.5	60513.2
67.5°	973.8	973.8	990.1	1030.8	1060.6	1133.8	1481.0	3667.3	34633.2	59387.5	65151.6
70°	873.4	873.4	895.1	930.4	954.8	1000.9	1169.1	2509.1	25443.3	50707.5	57941.8
72.5°	773.1	775.8	789.3	824.6	843.6	870.7	971.1	1757.7	15607.7	34527.4	40513.9
75°	661.9	667.3	680.8	716.1	732.4	743.2	819.2	1253.2	7896.1	18615.9	21195.5
77.5°	534.4	545.2	553.4	591.3	602.2	618.5	675.4	906.0	3466.6	6689.0	6748.7
80°	390.6	404.2	428.6	463.8	472.0	482.8	515.4	642.9	1570.5	3054.3	3317.4
82.5°	287.5	306.5	276.7	322.8	322.8	309.2	363.5	431.3	721.5	3024.4	3618.5
85°	157.3	160.0	143.8	165.5	176.3	173.6	192.6	211.6	349.9	2018.1	2080.5
87.5°	38.0	40.7	43.4	51.5	62.4	62.4	67.8	59.7	113.9	653.7	374.3
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)