

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: P456488

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50629 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

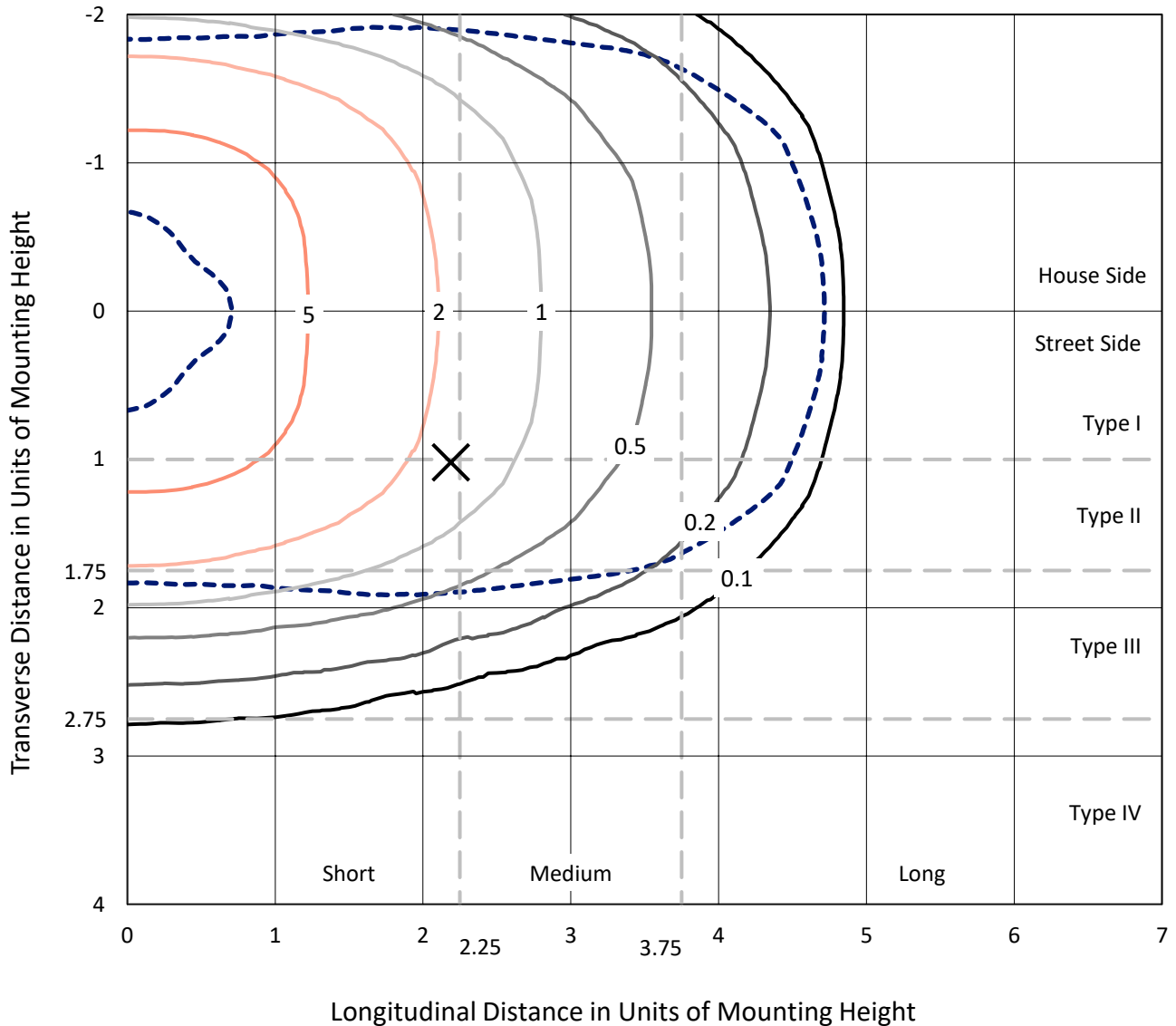
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

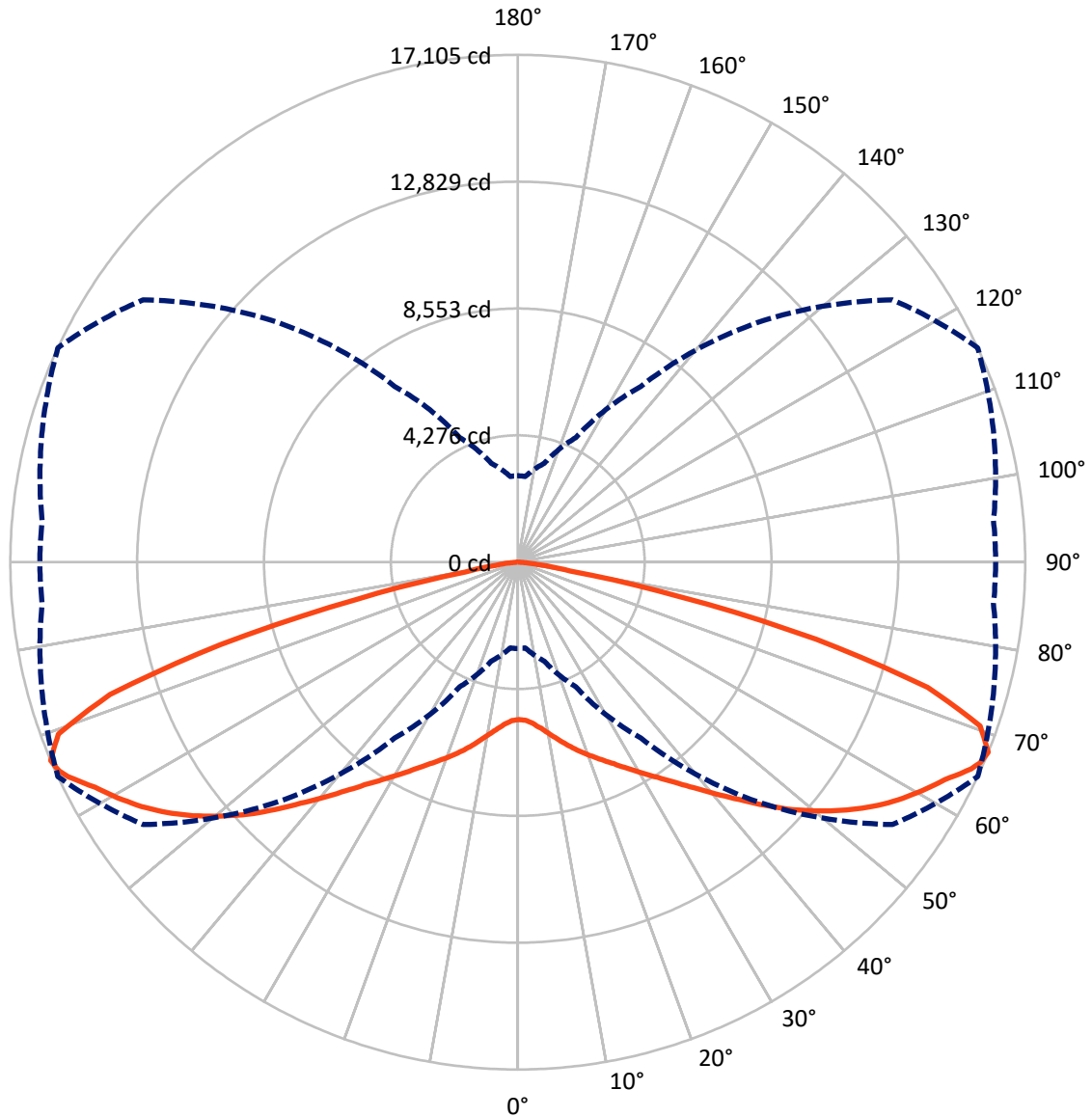
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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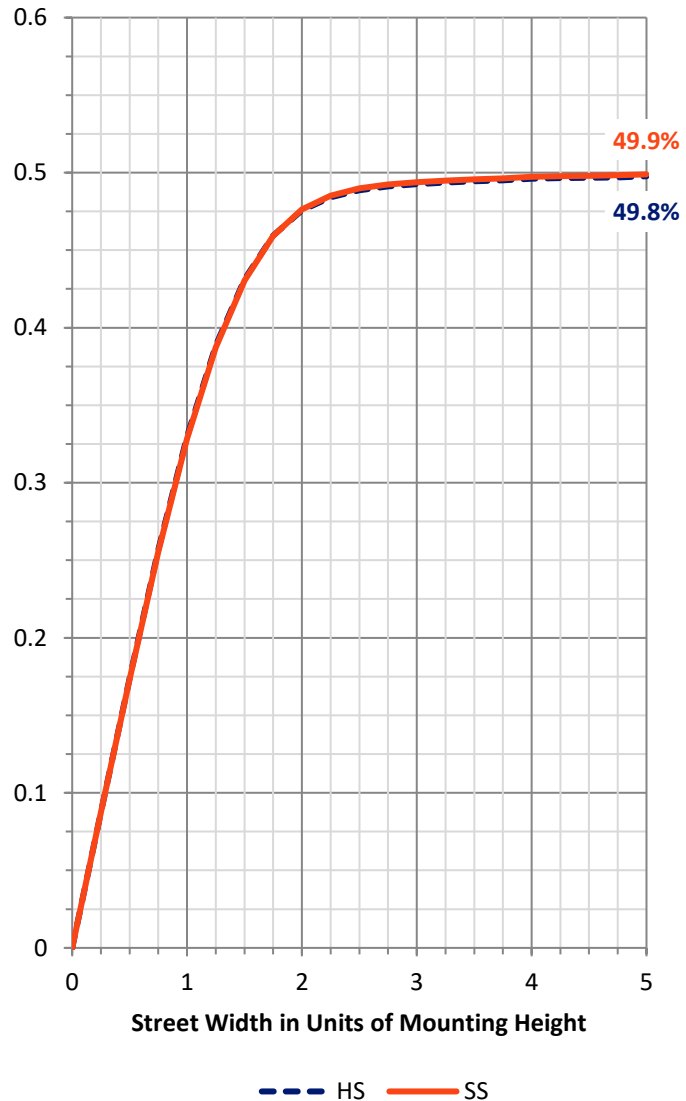
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25314.5	0.0	25314.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25314.5	0.0	25314.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50629.0	0.0	50629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.0	1.0
10°-20°	1750.5	3.5
20°-30°	3424.1	6.8
30°-40°	5823.9	11.5
40°-50°	9217.5	18.2
50°-60°	12222.1	24.1
60°-70°	11529.2	22.8
70°-80°	5699.5	11.3
80°-90°	439.2	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°	50629.0	100.0
0°-180°	50629.0	100.0

Coefficient of Utilization



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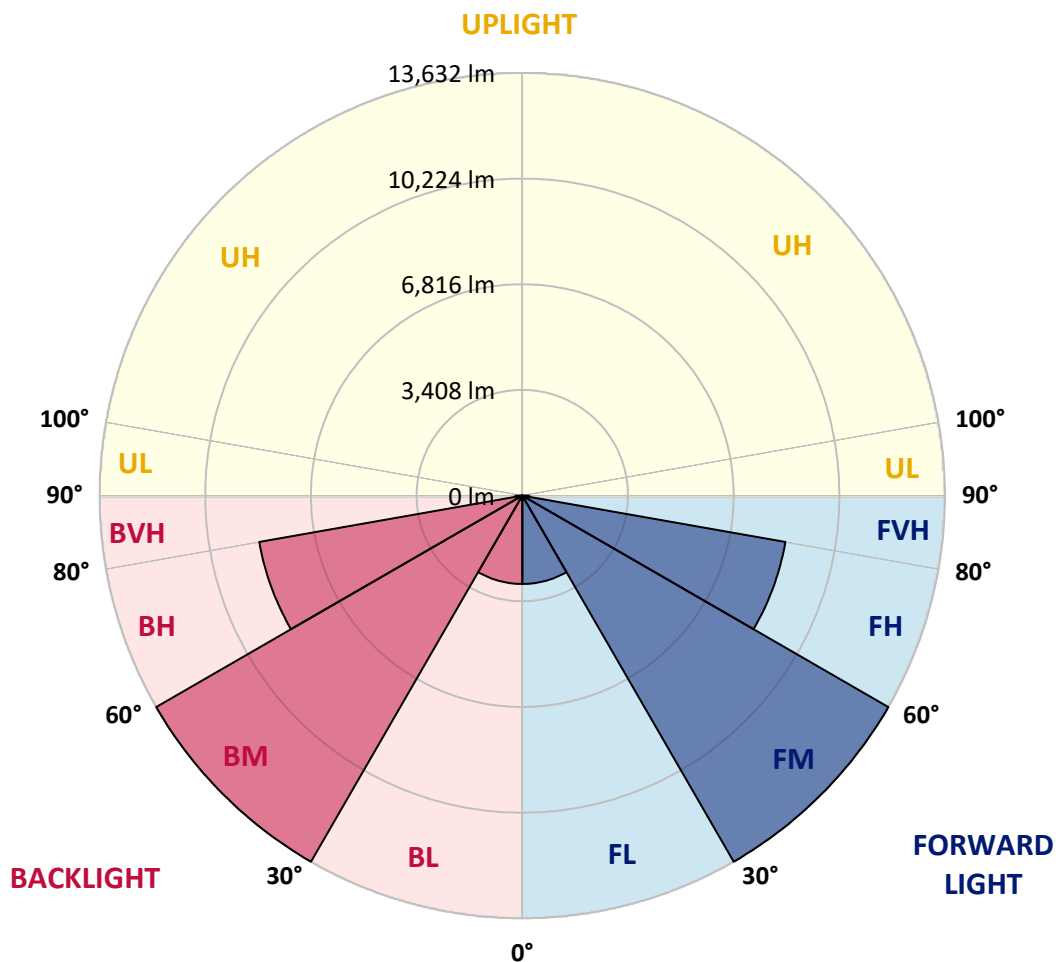
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2848.8	5.6			
FM	(30°-60°)	13631.7	26.9			
FH	(60°-80°)	8614.4	17.0			G4/12000
FVH	(80°-90°)	219.6	0.4			G2/225
BL	(0°-30°)	2848.8	5.6	B4/5000		
BM	(30°-60°)	13631.7	26.9	B5		
BH	(60°-80°)	8614.4	17.0	B5		G5
BVH	(80°-90°)	219.6	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5302.9	5302.9	5302.9	5302.9	5302.9	5302.9	5302.9	5302.9	5302.9	5302.9	5302.9
2.5°	5275.8	5281.2	5286.7	5294.8	5305.7	5321.9	5332.8	5340.9	5362.6	5365.3	5362.6
5°	5256.8	5262.3	5275.8	5300.2	5335.5	5384.3	5422.3	5468.4	5503.7	5528.1	5522.7
7.5°	5254.1	5265.0	5286.7	5338.2	5406.0	5490.1	5576.9	5655.6	5723.4	5777.6	5769.5
10°	5297.5	5311.1	5346.3	5422.3	5528.1	5650.1	5772.2	5888.8	5986.5	6057.0	6081.4
12.5°	5370.8	5381.6	5446.7	5560.6	5712.5	5864.4	6002.8	6146.5	6282.2	6401.5	6401.5
15°	5498.2	5517.2	5598.6	5764.1	5951.2	6127.5	6268.6	6420.5	6567.0	6702.6	6743.3
17.5°	5674.6	5701.7	5823.7	6035.3	6274.0	6436.8	6569.7	6694.5	6821.9	6952.1	6971.1
20°	5916.0	5943.1	6105.8	6360.8	6642.9	6838.2	6927.7	6957.6	7020.0	7144.7	7161.0
22.5°	6244.2	6271.3	6453.0	6740.6	7055.2	7266.8	7304.8	7234.2	7218.0	7315.6	7326.5
25°	6615.8	6640.2	6849.1	7158.3	7483.8	7714.4	7703.5	7529.9	7432.3	7491.9	7508.2
27.5°	7033.5	7068.8	7280.4	7600.4	7953.1	8156.5	8123.9	7871.7	7662.8	7652.0	7657.4
30°	7567.9	7605.9	7806.6	8113.1	8460.3	8647.5	8579.6	8240.6	7917.8	7809.3	7809.3
32.5°	8132.1	8227.0	8430.5	8750.5	9021.8	9157.4	9054.3	8647.5	8218.9	8067.0	8058.8
35°	8867.2	8918.7	9119.4	9431.4	9634.8	9740.6	9542.6	9105.9	8612.2	8433.2	8408.8
37.5°	9586.0	9629.4	9862.7	10161.0	10407.9	10402.4	10133.9	9651.1	9100.4	8899.7	8883.4
40°	10321.1	10367.2	10633.0	10907.0	11153.8	11132.1	10806.6	10266.8	9680.9	9455.8	9499.2
42.5°	10958.5	11010.0	11311.1	11701.7	11924.2	11918.7	11541.7	10934.1	10323.8	10123.1	10161.0
45°	11539.0	11585.1	11935.0	12382.6	12708.1	12748.8	12336.5	11693.6	11067.0	10809.3	10820.2
47.5°	11948.6	12035.4	12401.6	12914.2	13356.4	13500.1	13096.0	12466.7	11745.1	11476.6	11492.9
50°	12260.5	12314.8	12713.5	13296.7	13855.5	14153.8	13828.3	13182.8	12423.3	12138.4	12176.4
52.5°	12298.5	12363.6	12797.6	13470.3	14186.4	14639.4	14479.3	13882.6	13114.9	12822.0	12903.4
55°	11989.3	12027.2	12545.3	13361.8	14316.6	15000.1	15040.8	14533.6	13774.1	13551.7	13605.9
57.5°	11107.7	11205.3	11861.8	12854.5	14137.6	15192.7	15461.3	15124.9	14441.4	14221.6	14308.4
60°	9661.9	9759.6	10418.7	11677.3	13462.1	15103.2	15808.5	15648.4	15046.2	14869.9	14916.0
62.5°	7570.6	7562.5	8378.9	9922.3	12119.5	14663.8	16066.1	16152.9	15643.0	15420.6	15491.1
65°	4906.9	4931.3	5720.7	7383.4	10093.2	13546.2	16123.1	16795.8	16228.9	15892.5	15944.1
66°	3946.7	4019.9	4689.9	6222.5	9059.8	12813.9	15952.2	16985.7	16407.9	16001.0	16025.5
67.5°	2913.2	2899.7	3450.3	4633.0	7234.2	11422.3	15417.9	17105.0	16611.4	16098.7	16109.5
70°	1662.8	1660.1	1855.4	2544.3	4253.2	8042.6	12995.6	16532.7	17023.7	16451.3	16421.5
72.5°	1215.2	1207.1	1234.2	1405.1	2075.1	4060.6	8964.8	14449.5	16812.1	16394.4	16310.3
75°	1019.9	1014.5	1009.1	1030.8	1163.7	1839.1	4757.7	10394.3	14587.8	15388.0	15301.2
77.5°	832.7	832.7	835.5	830.0	835.5	968.4	1972.0	5571.5	8883.4	9916.9	10158.3
80°	651.0	648.3	694.4	675.4	632.0	621.2	873.4	1793.0	2948.5	2932.2	2419.6
82.5°	480.1	447.6	528.9	515.4	466.6	396.0	510.0	764.9	984.6	640.2	474.7
85°	303.8	301.1	374.3	341.8	284.8	187.2	244.1	328.2	406.9	246.8	200.7
87.5°	54.3	51.5	119.4	86.8	86.8	54.3	67.8	89.5	132.9	92.2	67.8
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)