

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: P453715

Luminaire Tested: **GALN-SA4D-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453715
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-SA4D-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 27821 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

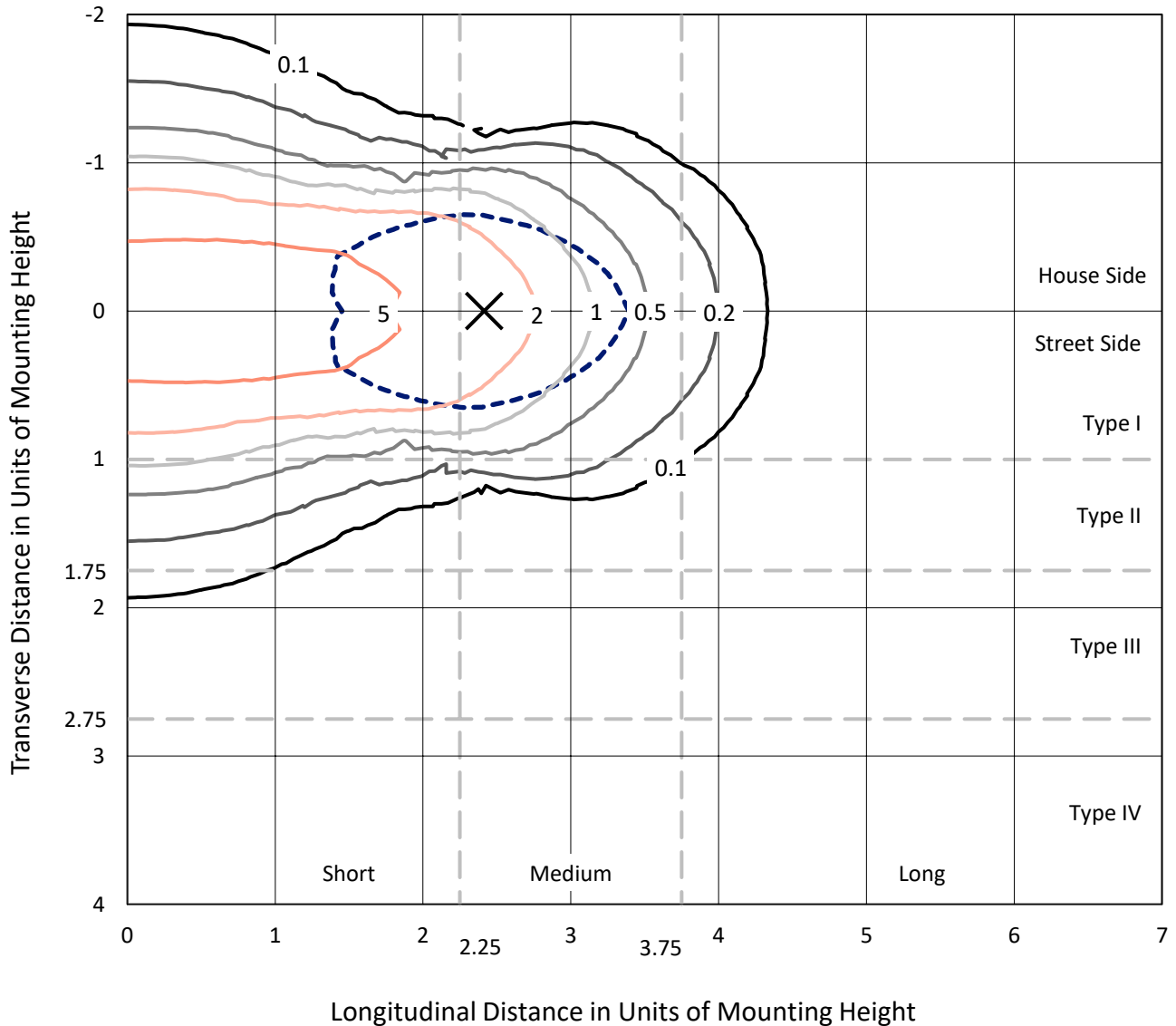
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

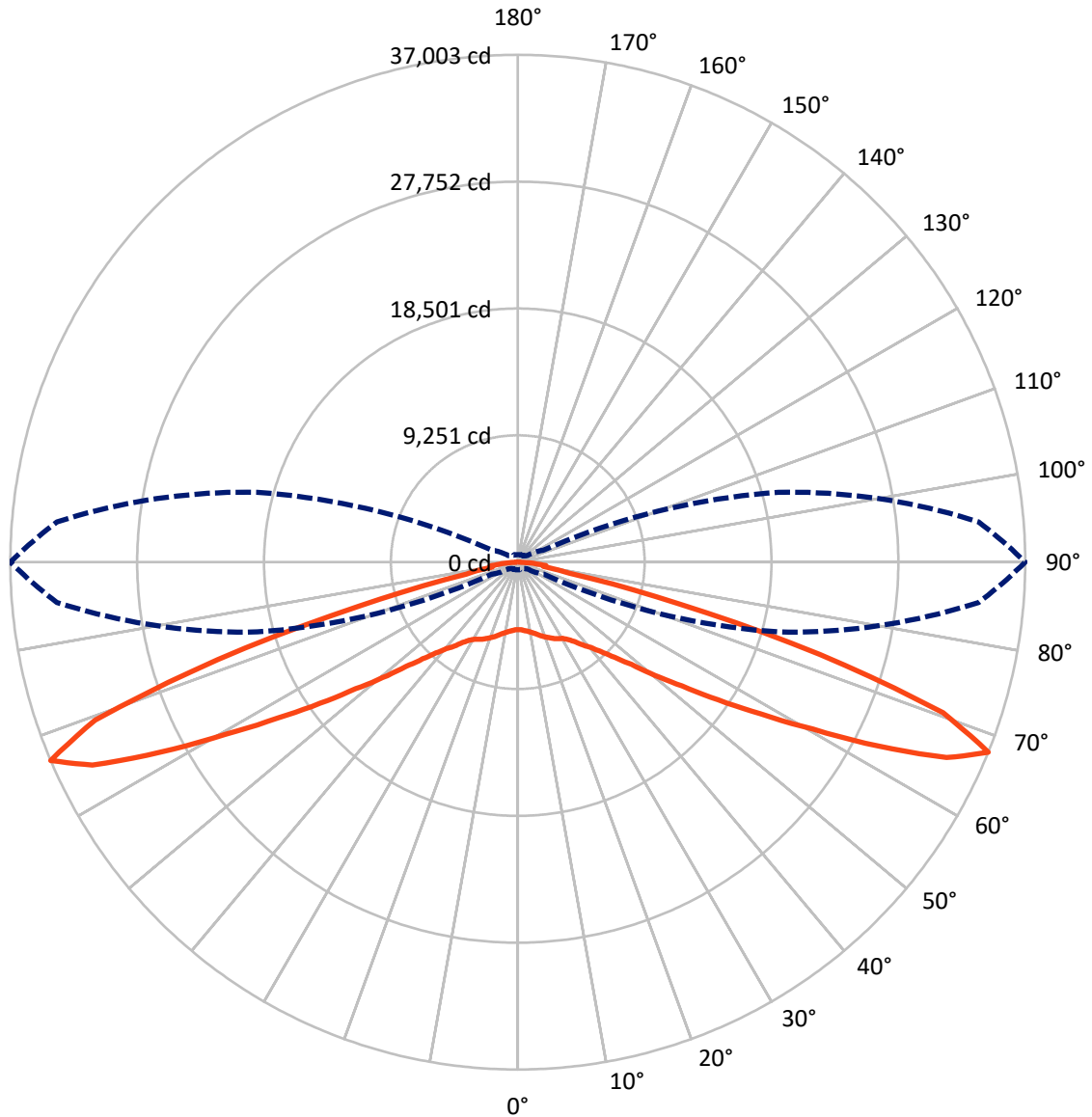
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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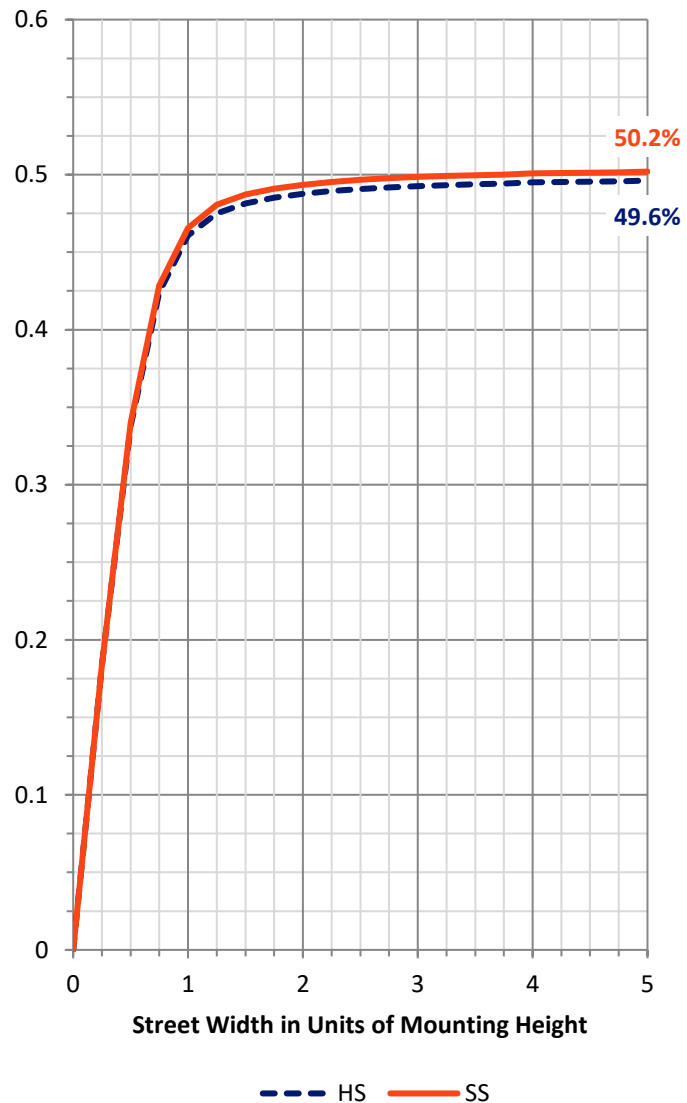
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13910.5	0.0	13910.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13910.5	0.0	13910.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27821.0	0.0	27821.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.0	1.8
10°-20°	1571.1	5.6
20°-30°	2629.6	9.5
30°-40°	3562.4	12.8
40°-50°	4512.3	16.2
50°-60°	5637.0	20.3
60°-70°	6626.1	23.8
70°-80°	2534.8	9.1
80°-90°	256.8	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°	27821.0	100.0
0°-180°	27821.0	100.0



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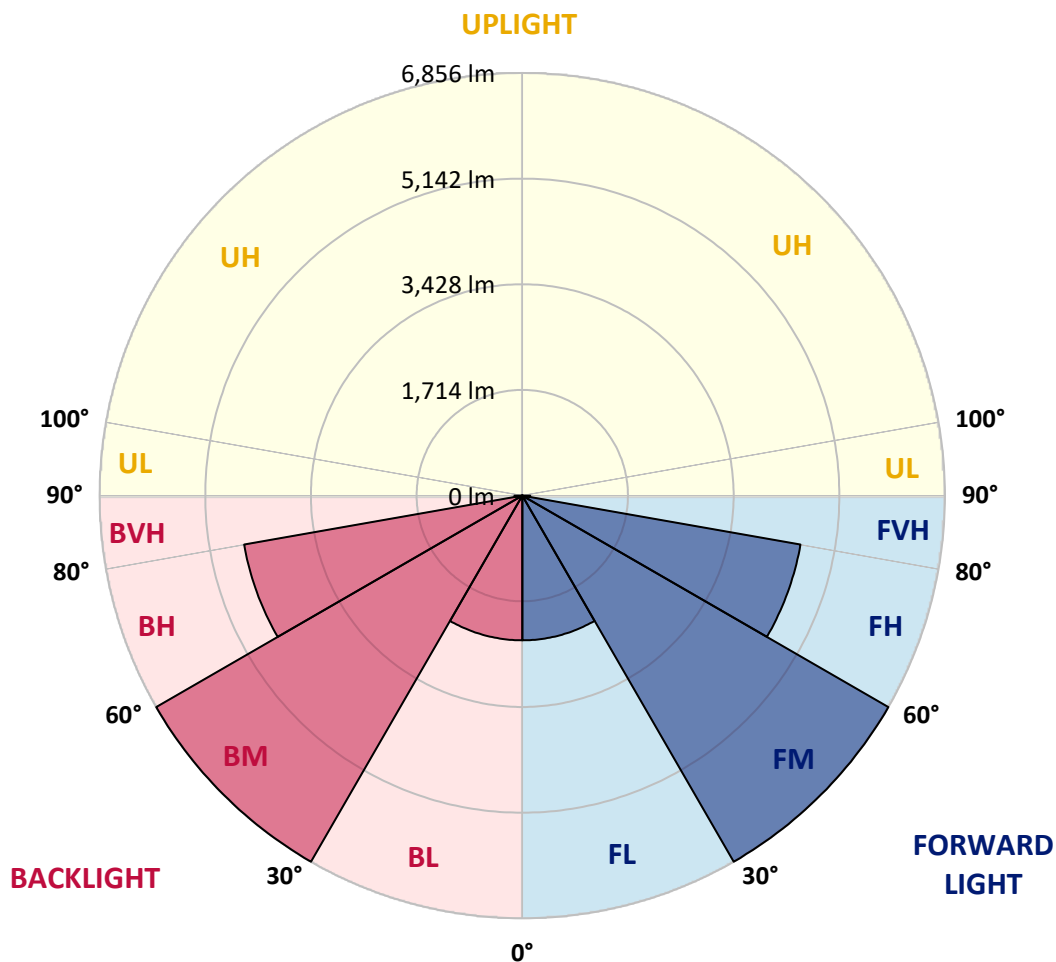
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.8	8.4			
FM (30°-60°)	6855.9	24.6			
FH (60°-80°)	4580.4	16.5			G2/5000
FVH (80°-90°)	128.4	0.5			G2/225
BL (0°-30°)	2345.8	8.4	B3/2500		
BM (30°-60°)	6855.9	24.6	B4/8500		
BH (60°-80°)	4580.4	16.5	B4/5000		G4/5000
BVH (80°-90°)	128.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4925.2	4925.2	4925.2	4925.2	4925.2	4925.2	4925.2	4925.2	4925.2	4925.2	4925.2
2.5°	4988.3	4985.3	4986.8	4985.3	4989.9	4986.8	4968.3	4952.9	4940.6	4942.1	4937.5
5°	5094.6	5096.2	5097.7	5090.0	5100.8	5094.6	5065.4	5040.7	5016.1	5006.8	5003.8
7.5°	5182.5	5190.2	5194.8	5202.5	5221.0	5221.0	5205.6	5170.1	5116.2	5085.4	5083.9
10°	5270.3	5276.4	5290.3	5314.9	5345.8	5375.0	5368.9	5321.1	5251.8	5199.4	5187.1
12.5°	5301.1	5308.8	5355.0	5425.9	5495.2	5552.2	5552.2	5513.7	5424.3	5344.2	5321.1
15°	5193.2	5207.1	5290.3	5441.3	5623.1	5747.8	5775.6	5721.7	5626.1	5502.9	5475.2
17.5°	4979.1	5013.0	5134.7	5358.1	5660.0	5918.8	5999.0	5972.8	5849.5	5692.4	5660.0
20°	4749.6	4786.5	4915.9	5211.7	5629.2	6019.0	6251.6	6257.8	6105.3	5877.3	5829.5
22.5°	4496.9	4524.6	4691.0	5037.6	5536.8	6042.1	6468.8	6575.1	6368.7	6062.1	5994.3
25°	4213.4	4244.3	4418.3	4792.7	5362.7	6015.9	6667.6	6901.7	6644.5	6259.3	6173.0
27.5°	3942.3	3954.6	4141.0	4521.6	5133.2	5948.1	6813.9	7202.1	6949.5	6422.6	6313.2
30°	3681.9	3711.2	3876.1	4252.0	4869.7	5815.6	6940.2	7544.1	7277.6	6593.6	6453.4
32.5°	3406.2	3441.6	3620.3	4000.8	4606.3	5616.9	7017.3	7918.5	7735.2	6870.9	6721.5
35°	3141.2	3164.3	3344.6	3714.3	4349.0	5385.8	7031.1	8340.6	8325.2	7291.5	7092.8
37.5°	2870.1	2904.0	3085.7	3440.1	4076.3	5140.9	6961.8	8788.9	9036.9	7875.4	7661.2
40°	2609.7	2639.0	2817.7	3175.1	3766.7	4842.0	6797.0	9198.7	9867.3	8476.2	8172.7
42.5°	2326.3	2334.0	2529.6	2893.2	3463.2	4495.4	6559.7	9563.8	10793.2	9281.9	8904.5
45°	2004.3	2024.3	2206.1	2563.5	3115.0	4107.1	6237.7	9865.8	11967.1	10398.8	9884.3
47.5°	1682.3	1699.2	1865.6	2218.4	2734.5	3661.9	5741.7	10130.7	13171.8	11817.7	11142.9
50°	1368.0	1377.3	1512.8	1825.6	2306.2	3193.6	5127.0	10215.5	14533.7	13826.6	12965.4
52.5°	1081.5	1095.3	1198.6	1443.5	1848.7	2640.5	4463.0	10006.0	16123.5	16208.3	14994.3
55°	876.6	881.2	958.2	1138.5	1445.0	2061.3	3661.9	9422.1	17833.6	19260.1	17711.9
57.5°	754.9	758.0	801.1	901.2	1112.3	1554.4	2840.8	8317.5	19369.5	22835.8	20845.4
60°	685.6	687.1	711.7	770.3	881.2	1192.4	2035.1	6758.5	20885.4	26815.1	24739.9
62.5°	642.4	642.4	659.4	691.7	745.6	915.1	1474.3	4875.9	21923.8	30852.9	29540.3
65°	600.8	600.8	613.1	636.3	665.5	748.7	1089.2	3179.7	21897.6	33793.8	34368.4
67.5°	553.1	553.1	562.3	585.4	602.4	644.0	841.1	2082.8	19669.9	33729.1	37002.8
70°	496.1	496.1	508.4	528.4	542.3	568.5	664.0	1425.0	14450.5	28799.3	32908.0
72.5°	439.1	440.6	448.3	468.3	479.1	494.5	551.5	998.3	8864.4	19609.8	23009.9
75°	375.9	379.0	386.7	406.7	416.0	422.1	465.3	711.7	4484.6	10572.9	12038.0
77.5°	303.5	309.7	314.3	335.8	342.0	351.2	383.6	514.5	1968.8	3799.0	3832.9
80°	221.8	229.5	243.4	263.4	268.1	274.2	292.7	365.1	892.0	1734.7	1884.1
82.5°	163.3	174.1	157.1	183.3	183.3	175.6	206.4	244.9	409.8	1717.7	2055.1
85°	89.4	90.9	81.6	94.0	100.1	98.6	109.4	120.2	198.7	1146.2	1181.6
87.5°	21.6	23.1	24.6	29.3	35.4	35.4	38.5	33.9	64.7	371.3	212.6
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)