

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: P453744

Luminaire Tested: **GALN-SA4D-740-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453744  
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-740-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30549 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

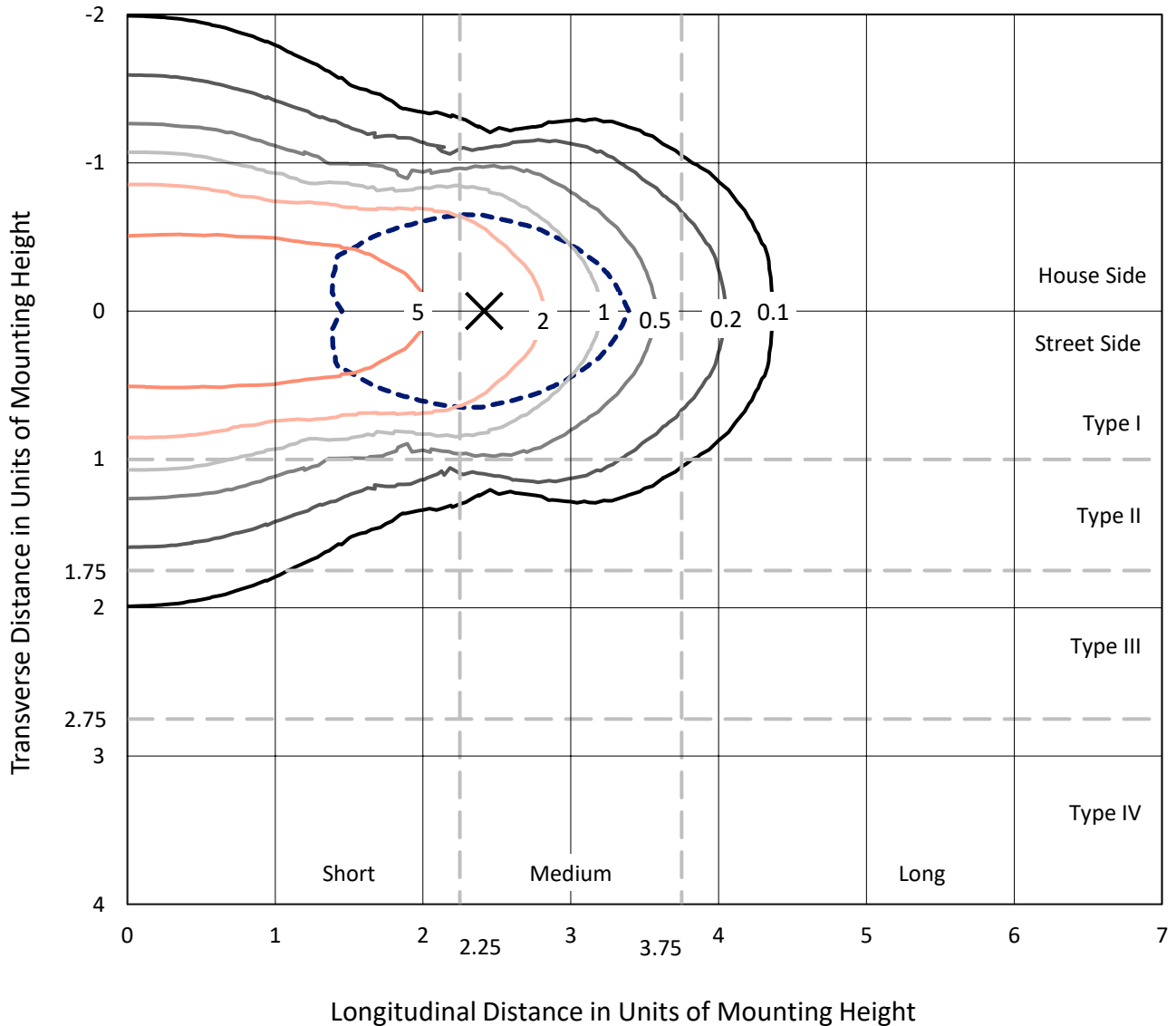
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

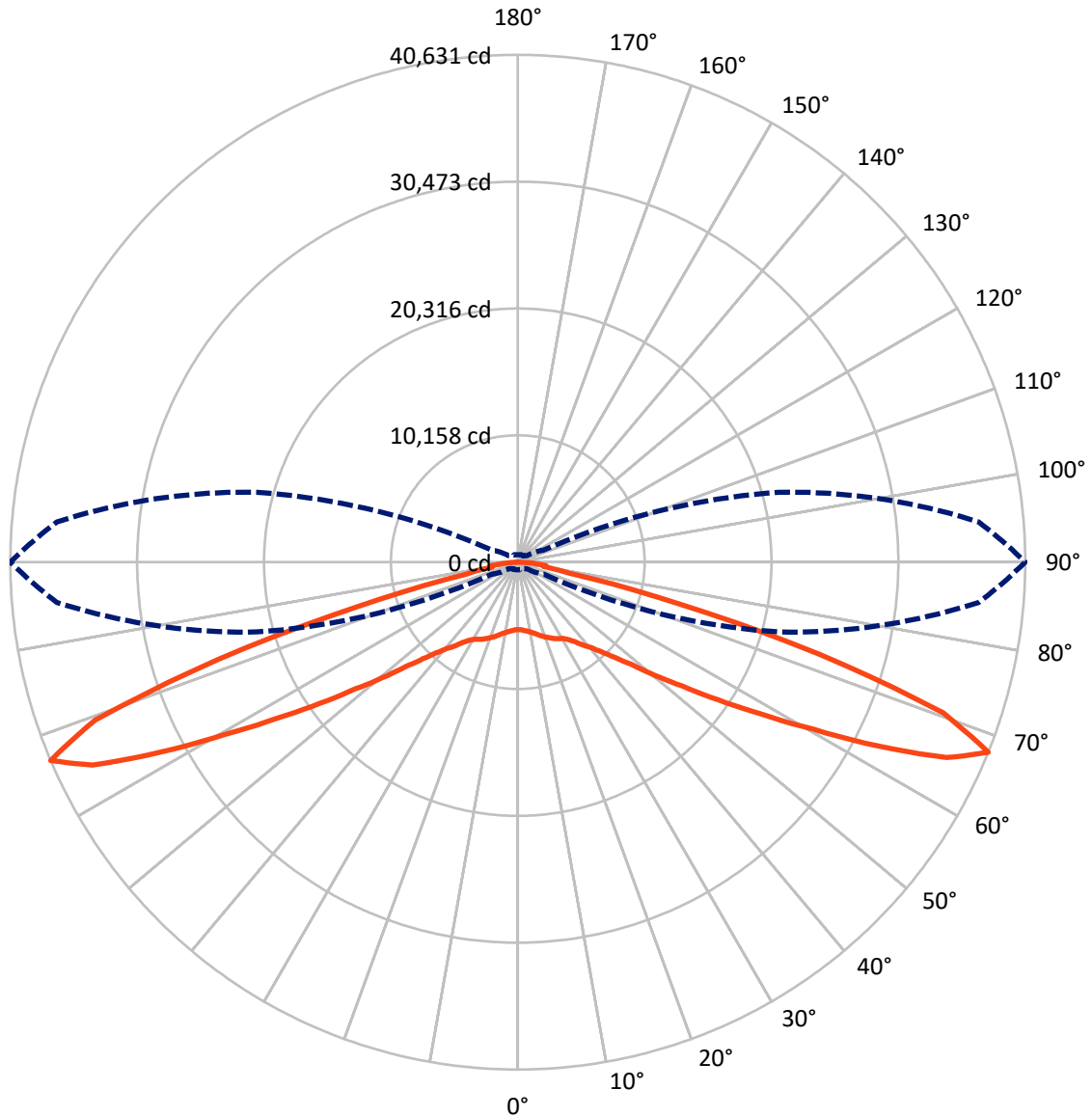
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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
<b>House Side</b>	Lumens	15274.5	0.0	15274.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15274.5	0.0	15274.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30549.0	0.0	30549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.2	1.8
10°-20°	1725.1	5.6
20°-30°	2887.4	9.5
30°-40°	3911.7	12.8
40°-50°	4954.8	16.2
50°-60°	6189.8	20.3
60°-70°	7275.8	23.8
70°-80°	2783.3	9.1
80°-90°	282.0	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°	30549.0	100.0
0°-180°	30549.0	100.0

**Coefficient of Utilization**



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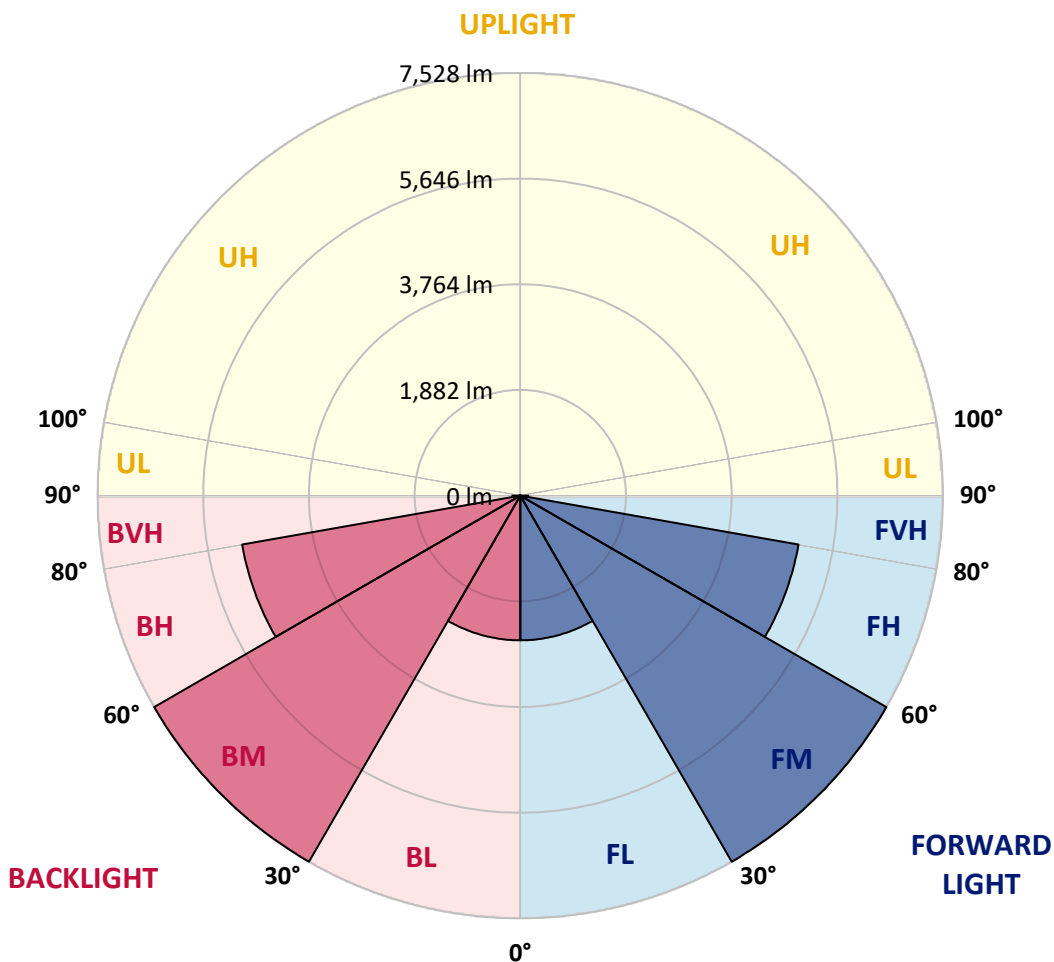
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2575.9	8.4			
FM (30°-60°)	7528.1	24.6			
FH (60°-80°)	5029.6	16.5			G3/7500
FVH (80°-90°)	141.0	0.5			G2/225
BL (0°-30°)	2575.9	8.4	B4/5000		
BM (30°-60°)	7528.1	24.6	B4/8500		
BH (60°-80°)	5029.6	16.5	B5		G5
BVH (80°-90°)	141.0	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°	5408.1	5408.1	5408.1	5408.1	5408.1	5408.1	5408.1	5408.1	5408.1	5408.1	5408.1
2.5°	5477.5	5474.1	5475.8	5474.1	5479.2	5475.8	5455.5	5438.6	5425.0	5426.7	5421.7
5°	5594.2	5595.9	5597.6	5589.1	5601.0	5594.2	5562.1	5535.0	5507.9	5497.8	5494.4
7.5°	5690.6	5699.1	5704.2	5712.6	5732.9	5732.9	5716.0	5677.1	5617.9	5584.1	5582.4
10°	5787.0	5793.8	5809.0	5836.1	5869.9	5902.1	5895.3	5842.9	5766.7	5709.2	5695.7
12.5°	5820.9	5829.3	5880.1	5957.9	6034.0	6096.6	6096.6	6054.3	5956.2	5868.2	5842.9
15°	5702.5	5717.7	5809.0	5974.8	6174.4	6311.5	6341.9	6282.7	6177.8	6042.5	6012.0
17.5°	5467.3	5504.5	5638.2	5883.5	6215.0	6499.2	6587.2	6558.4	6423.1	6250.6	6215.0
20°	5215.3	5255.9	5398.0	5722.8	6181.2	6609.2	6864.6	6871.4	6703.9	6453.5	6401.1
22.5°	4937.9	4968.3	5151.0	5531.6	6079.7	6634.6	7103.1	7219.9	6993.2	6656.5	6582.1
25°	4626.6	4660.4	4851.6	5262.6	5888.5	6605.8	7321.4	7578.5	7296.0	6873.1	6778.3
27.5°	4328.9	4342.4	4547.1	4964.9	5636.5	6531.4	7482.1	7908.3	7630.9	7052.4	6932.3
30°	4043.0	4075.1	4256.1	4668.9	5347.2	6385.9	7620.8	8283.9	7991.2	7240.2	7086.2
32.5°	3740.2	3779.1	3975.3	4393.1	5058.0	6167.7	7705.4	8695.0	8493.6	7544.6	7380.6
35°	3449.2	3474.6	3672.5	4078.5	4775.5	5913.9	7720.6	9158.5	9141.5	8006.5	7788.2
37.5°	3151.5	3188.7	3388.3	3777.4	4476.0	5645.0	7644.5	9650.7	9923.1	8647.6	8412.4
40°	2865.6	2897.8	3094.0	3486.4	4136.0	5316.8	7463.4	10100.7	10834.9	9307.3	8974.1
42.5°	2554.4	2562.8	2777.6	3176.9	3802.8	4936.2	7202.9	10501.6	11851.5	10192.0	9777.6
45°	2200.8	2222.8	2422.4	2814.9	3420.5	4509.9	6849.4	10833.2	13140.5	11418.5	10853.5
47.5°	1847.3	1865.9	2048.6	2435.9	3002.6	4021.0	6304.7	11124.1	14463.4	12976.5	12235.5
50°	1502.2	1512.3	1661.2	2004.6	2532.4	3506.7	5629.7	11217.2	15958.8	15182.3	14236.7
52.5°	1187.5	1202.7	1316.1	1585.1	2029.9	2899.4	4900.6	10987.1	17704.5	17797.6	16464.6
55°	962.5	967.6	1052.2	1250.1	1586.7	2263.4	4021.0	10346.0	19582.2	21148.7	19448.6
57.5°	828.9	832.3	879.6	989.6	1221.4	1706.8	3119.4	9133.1	21268.8	25075.0	22889.4
60°	752.8	754.5	781.5	845.8	967.6	1309.3	2234.6	7421.2	22933.4	29444.4	27165.8
62.5°	705.4	705.4	724.0	759.5	818.7	1004.8	1618.9	5354.0	24073.5	33878.2	32436.9
65°	659.7	659.7	673.3	698.6	730.8	822.1	1196.0	3491.5	24044.8	37107.5	37738.5
67.5°	607.3	607.3	617.4	642.8	661.4	707.1	923.6	2287.1	21598.7	37036.4	40631.1
70°	544.7	544.7	558.2	580.2	595.5	624.2	729.1	1564.8	15867.4	31623.2	36134.8
72.5°	482.1	483.8	492.3	514.3	526.1	543.0	605.6	1096.2	9733.6	21532.7	25266.1
75°	412.8	416.1	424.6	446.6	456.7	463.5	510.9	781.5	4924.3	11609.6	13218.4
77.5°	333.3	340.0	345.1	368.8	375.5	385.7	421.2	565.0	2161.9	4171.5	4208.8
80°	243.6	252.1	267.3	289.3	294.3	301.1	321.4	400.9	979.5	1904.8	2068.9
82.5°	179.3	191.2	172.5	201.3	201.3	192.8	226.7	269.0	450.0	1886.2	2256.6
85°	98.1	99.8	89.7	103.2	110.0	108.3	120.1	131.9	218.2	1258.6	1297.5
87.5°	23.7	25.4	27.1	32.1	38.9	38.9	42.3	37.2	71.0	407.7	233.4
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)