

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: P457456

Luminaire Tested: **GALN-SA8D-740-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457456  
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-SA8D-740-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 62358 lumens  
Efficiency: N/A  
Efficacy: 126.5 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

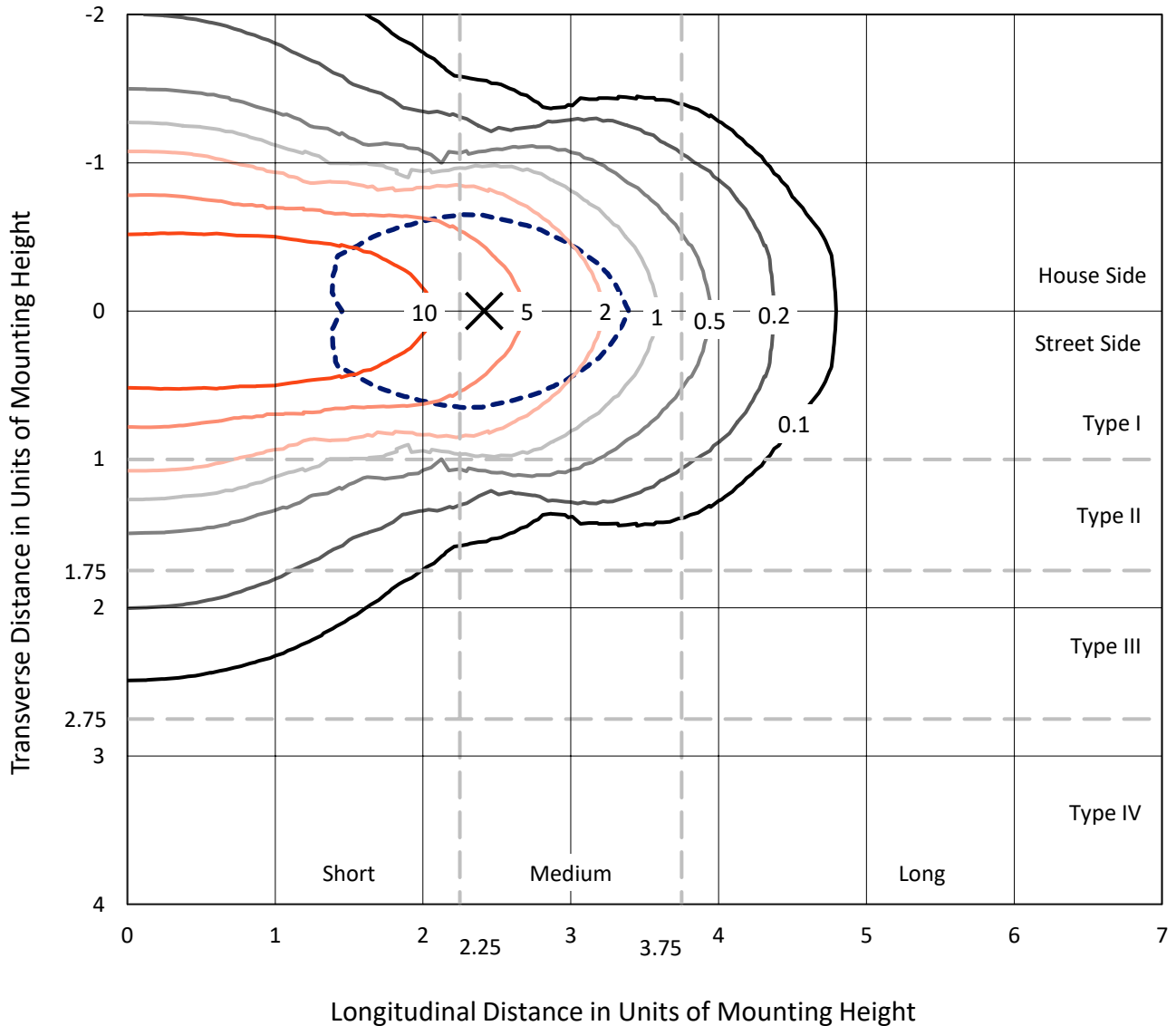
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

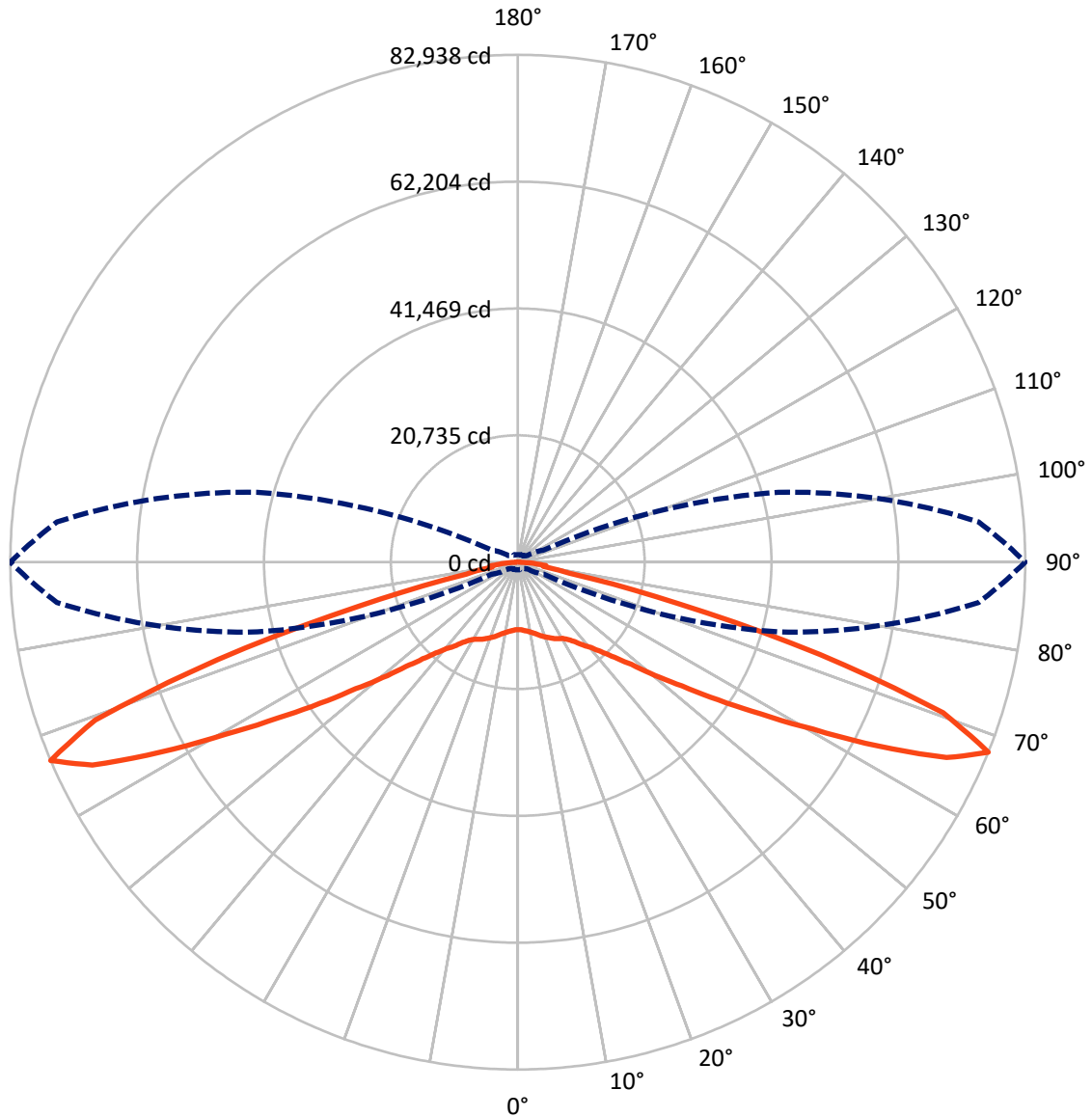
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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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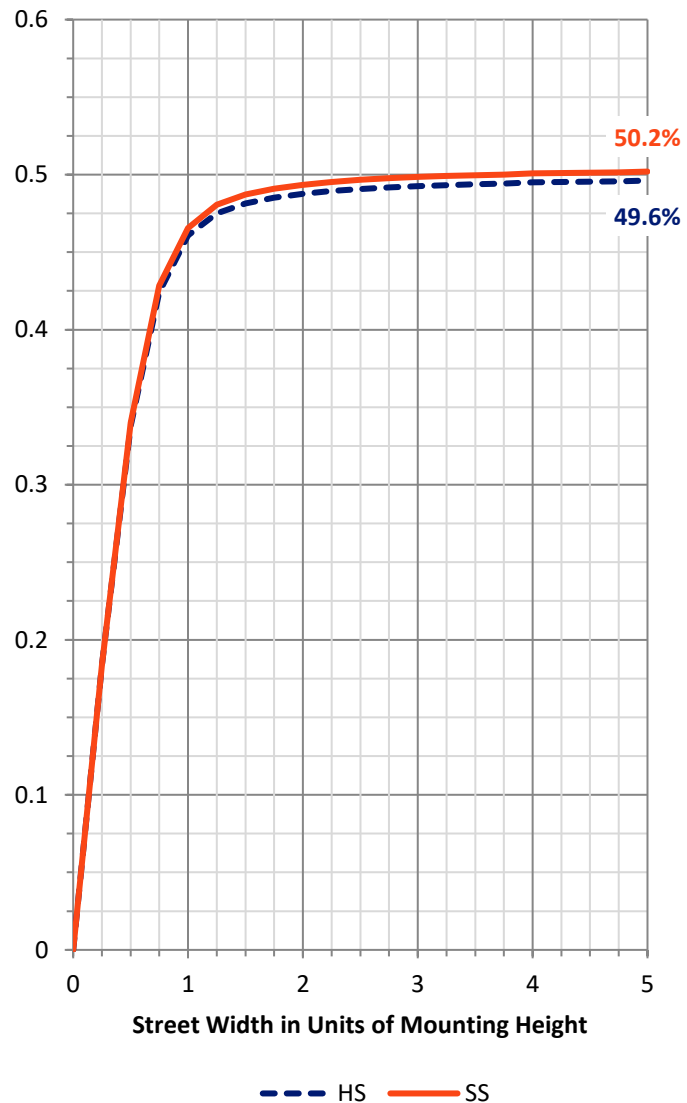
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31179.0	0.0	31179.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31179.0	0.0	31179.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	62358.0	0.0	62358.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1100.6	1.8
10°-20°	3521.4	5.6
20°-30°	5893.9	9.5
30°-40°	7984.7	12.8
40°-50°	10113.9	16.2
50°-60°	12634.8	20.3
60°-70°	14851.7	23.8
70°-80°	5681.4	9.1
80°-90°	575.6	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°	62358.0	100.0
0°-180°	62358.0	100.0



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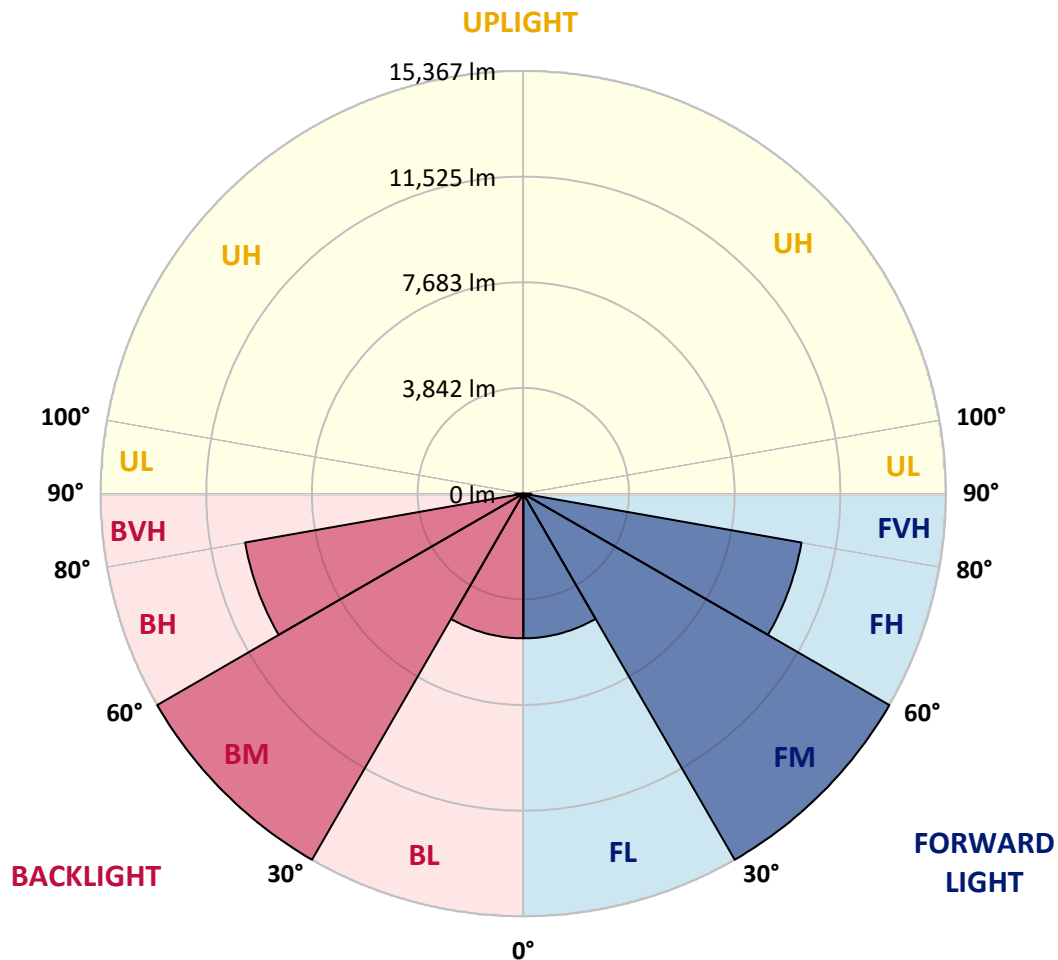
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5257.9	8.4			
FM	(30°-60°)	15366.7	24.6			
FH	(60°-80°)	10266.5	16.5			G4/12000
FVH	(80°-90°)	287.8	0.5			G3/500
BL	(0°-30°)	5257.9	8.4	B5		
BM	(30°-60°)	15366.7	24.6	B5		
BH	(60°-80°)	10266.5	16.5	B5		G5
BVH	(80°-90°)	287.8	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°	11039.3	11039.3	11039.3	11039.3	11039.3	11039.3	11039.3	11039.3	11039.3	11039.3	11039.3
2.5°	11180.9	11174.0	11177.4	11174.0	11184.3	11177.4	11136.0	11101.5	11073.8	11077.3	11066.9
5°	11419.1	11422.6	11426.0	11408.8	11433.0	11419.1	11353.5	11298.3	11243.0	11222.3	11215.4
7.5°	11616.0	11633.2	11643.6	11660.9	11702.3	11702.3	11667.8	11588.3	11467.5	11398.4	11395.0
10°	11812.8	11826.6	11857.7	11912.9	11982.0	12047.6	12033.8	11926.7	11771.3	11653.9	11626.3
12.5°	11881.8	11899.1	12002.7	12161.5	12316.9	12444.7	12444.7	12358.4	12158.1	11978.5	11926.7
15°	11640.1	11671.2	11857.7	12196.1	12603.5	12883.2	12945.4	12824.5	12610.4	12334.2	12272.0
17.5°	11160.2	11236.1	11508.9	12009.6	12686.4	13266.5	13446.1	13387.4	13111.1	12758.9	12686.4
20°	10645.7	10728.5	11018.6	11681.6	12617.3	13491.0	14012.4	14026.2	13684.3	13173.3	13066.2
22.5°	10079.4	10141.5	10514.4	11291.4	12410.2	13542.7	14499.2	14737.5	14274.8	13587.6	13435.7
25°	9444.0	9513.1	9903.3	10742.3	12020.0	13484.0	14944.7	15469.5	14892.9	14029.6	13836.3
27.5°	8836.3	8863.9	9281.7	10134.6	11505.5	13332.1	15272.7	16142.9	15576.6	14395.6	14150.5
30°	8252.7	8318.3	8687.8	9530.3	10915.0	13035.2	15555.9	16909.4	16312.1	14778.9	14464.7
32.5°	7634.6	7714.0	8114.6	8967.5	10324.5	12589.7	15728.5	17748.5	17337.6	15400.5	15065.5
35°	7040.7	7092.5	7496.5	8325.2	9747.9	12071.8	15759.6	18694.7	18660.1	16343.1	15897.7
37.5°	6433.0	6508.9	6916.4	7710.6	9136.7	11522.7	15604.2	19699.5	20255.4	17651.8	17171.9
40°	5849.4	5915.0	6315.6	7116.7	8442.6	10852.8	15234.7	20618.0	22116.6	18998.5	18318.3
42.5°	5214.1	5231.3	5669.9	6484.8	7762.4	10075.9	14703.0	21436.4	24191.9	20804.5	19958.5
45°	4492.4	4537.3	4944.7	5745.8	6982.0	9205.8	13981.3	22113.1	26823.1	23307.9	22154.6
47.5°	3770.7	3808.7	4181.6	4972.3	6129.1	8207.8	12869.4	22707.1	29523.3	26488.1	24975.7
50°	3066.3	3087.0	3390.9	4091.8	5169.2	7158.1	11491.7	22897.0	32575.8	30990.9	29060.6
52.5°	2424.0	2455.1	2686.5	3235.5	4143.6	5918.5	10003.4	22427.4	36139.3	36329.2	33608.3
55°	1964.8	1975.1	2147.8	2551.8	3238.9	4620.1	8207.8	21118.7	39972.2	43169.7	39699.4
57.5°	1692.0	1698.9	1795.6	2020.0	2493.1	3484.1	6367.4	18642.9	43414.8	51184.1	46722.8
60°	1536.6	1540.0	1595.3	1726.5	1975.1	2672.6	4561.4	15148.4	46812.6	60103.3	55452.1
62.5°	1439.9	1439.9	1477.9	1550.4	1671.3	2051.1	3304.5	10928.8	49139.9	69153.6	66211.7
65°	1346.7	1346.7	1374.3	1426.1	1491.7	1678.2	2441.3	7127.0	49081.2	75745.5	77033.4
67.5°	1239.6	1239.6	1260.4	1312.1	1350.1	1443.4	1885.3	4668.5	44088.2	75600.4	82938.1
70°	1111.9	1111.9	1139.5	1184.4	1215.5	1274.2	1488.3	3194.0	32389.3	64550.8	73760.0
72.5°	984.1	987.6	1004.8	1049.7	1073.9	1108.4	1236.2	2237.6	19868.7	43953.5	51574.3
75°	842.5	849.4	866.7	911.6	932.3	946.1	1042.8	1595.3	10051.7	23698.1	26981.9
77.5°	680.2	694.1	704.4	752.8	766.6	787.3	859.8	1153.3	4413.0	8515.1	8591.1
80°	497.2	514.5	545.6	590.5	600.8	614.6	656.1	818.4	1999.3	3888.1	4223.0
82.5°	366.0	390.2	352.2	410.9	410.9	393.6	462.7	549.0	918.5	3850.1	4606.3
85°	200.3	203.7	183.0	210.6	224.4	221.0	245.2	269.3	445.4	2569.0	2648.5
87.5°	48.3	51.8	55.2	65.6	79.4	79.4	86.3	76.0	145.0	832.2	476.5
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)