

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: P651557

Luminaire Tested: **GALN-SA8D-840-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-840-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46033 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

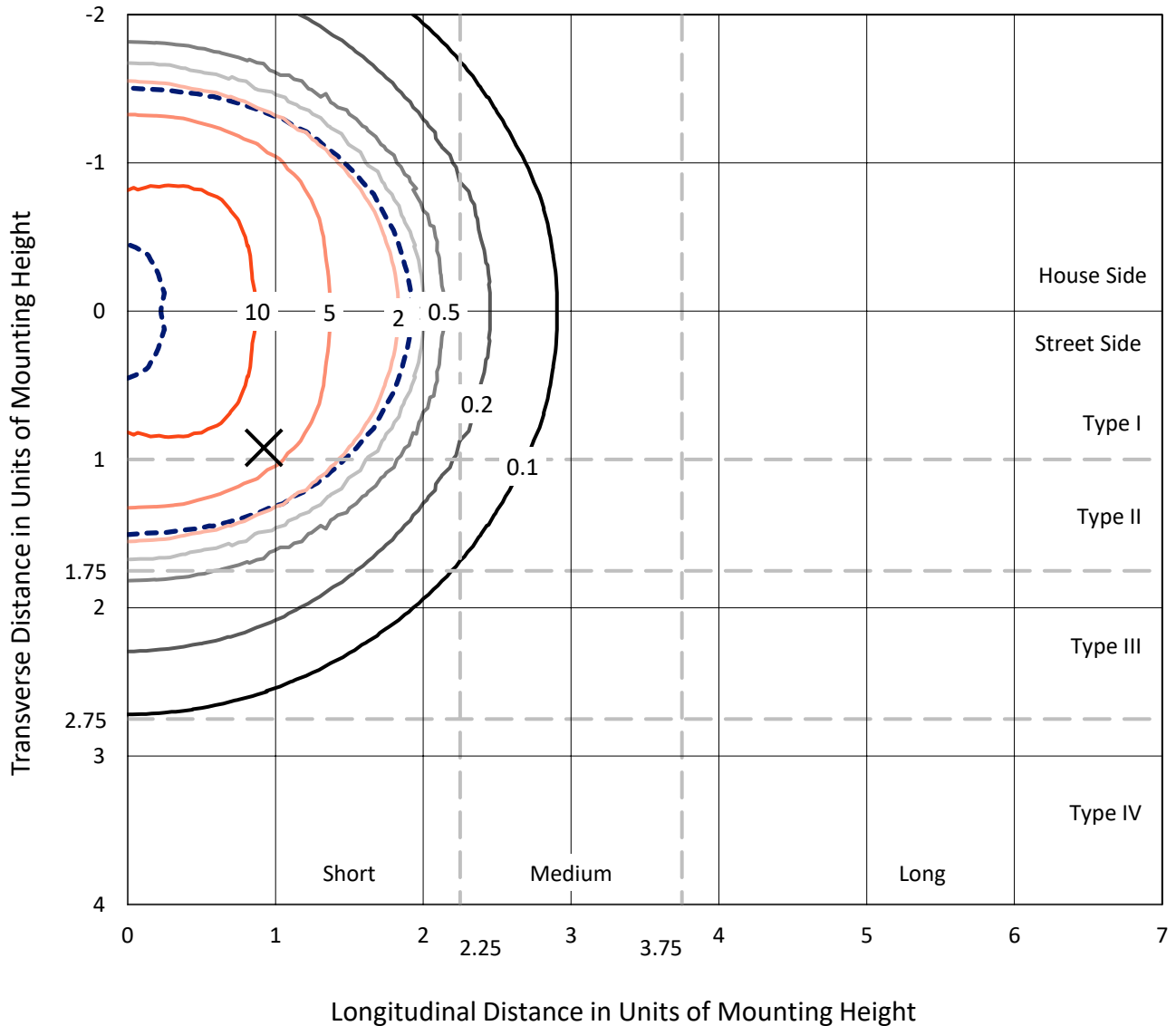
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

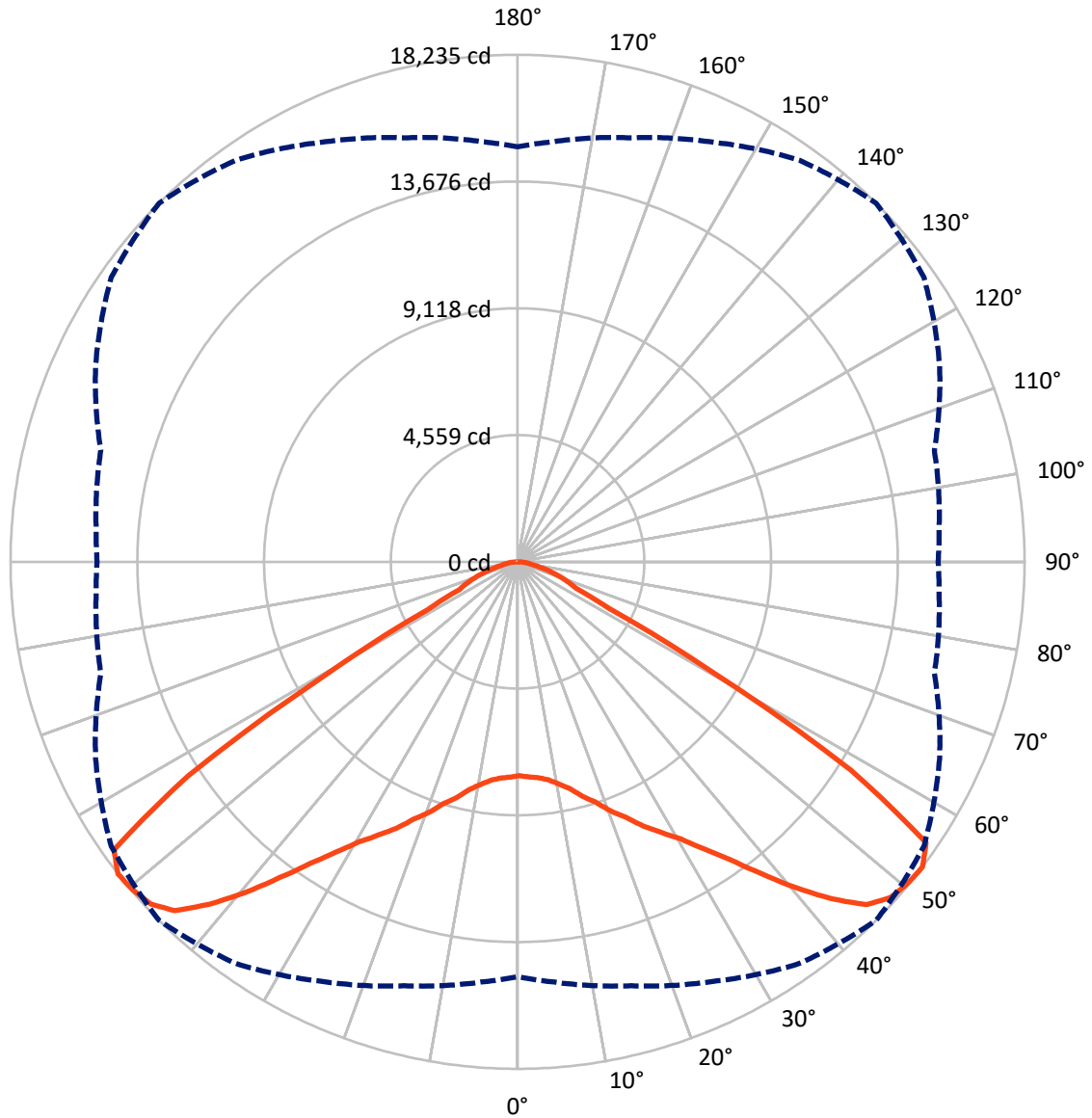
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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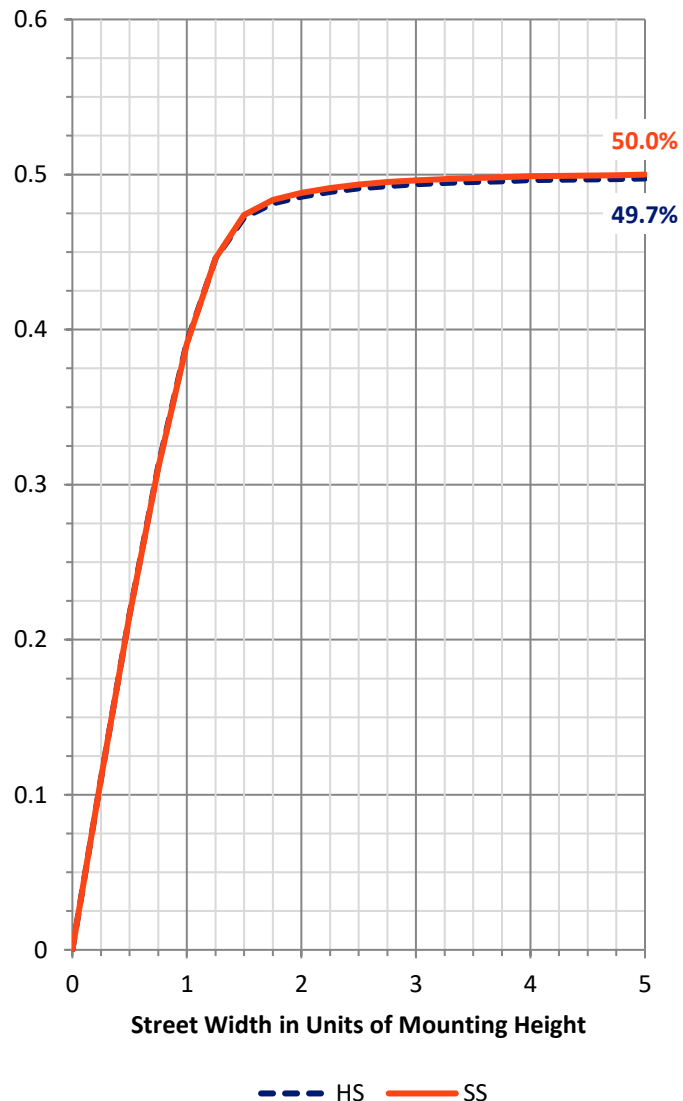
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23016.5	0.0	23016.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23016.5	0.0	23016.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46033.0	0.0	46033.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	756.0	1.6
10°-20°	2484.2	5.4
20°-30°	4729.6	10.3
30°-40°	8121.0	17.6
40°-50°	12482.2	27.1
50°-60°	12675.5	27.5
60°-70°	3532.5	7.7
70°-80°	1042.0	2.3
80°-90°	209.9	0.5
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°	46033.0	100.0
0°-180°	46033.0	100.0

**Coefficient of Utilization**

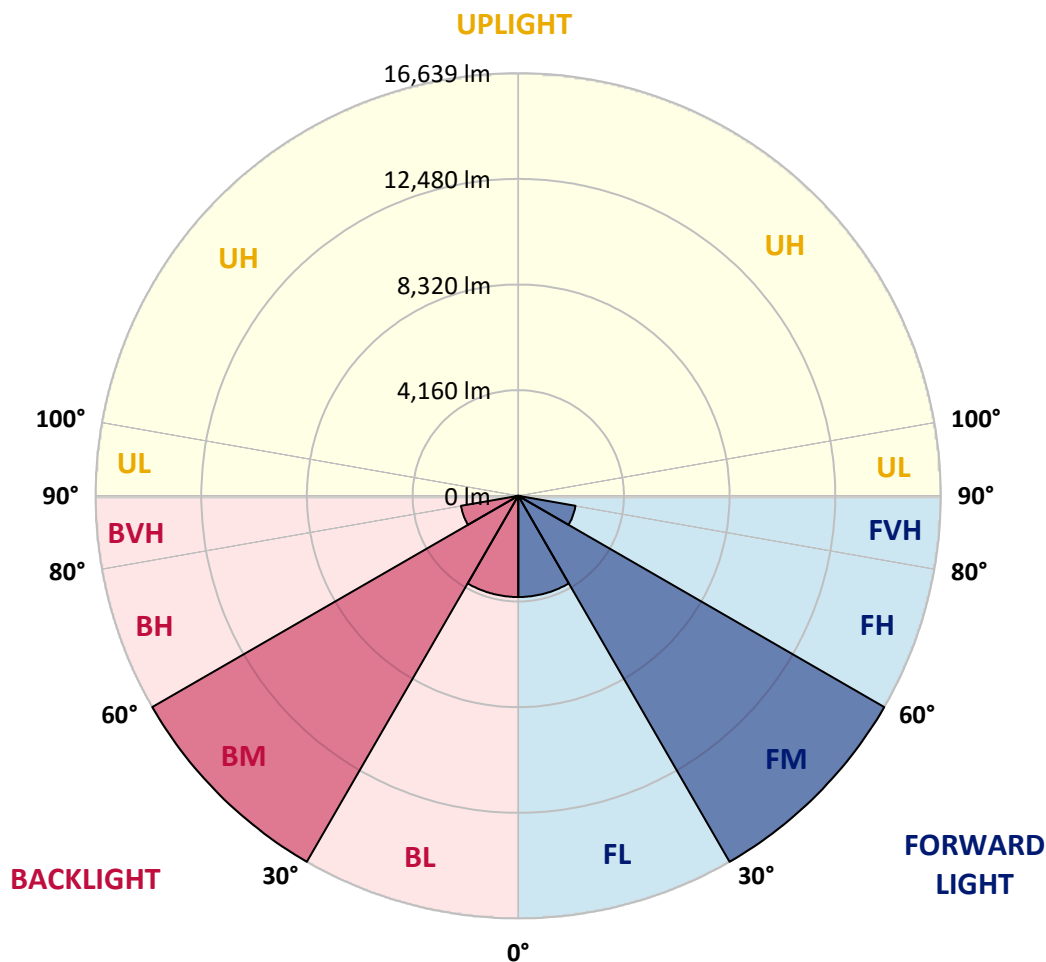


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3984.9	8.7			
FM (30°-60°)	16639.4	36.1			
FH (60°-80°)	2287.3	5.0			G2/5000
FVH (80°-90°)	105.0	0.2			G2/225
BL (0°-30°)	3984.9	8.7	B4/5000		
BM (30°-60°)	16639.4	36.1	B5		
BH (60°-80°)	2287.3	5.0	B3/2500		G2/5000
BVH (80°-90°)	105.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7695.0	7695.0	7695.0	7695.0	7695.0	7695.0	7695.0	7695.0	7695.0	7695.0	7695.0
2.5°	7712.1	7632.2	7660.8	7677.9	7752.2	7746.5	7729.3	7752.2	7775.0	7780.7	7769.2
5°	7706.4	7649.3	7672.2	7689.3	7763.6	7803.6	7792.1	7889.3	7957.8	7940.6	8026.3
7.5°	7660.8	7695.0	7666.5	7752.2	7815.0	7912.1	8014.9	8106.3	8192.0	8289.1	8306.3
10°	7763.6	7763.6	7815.0	7883.5	8049.2	8123.5	8272.0	8403.4	8569.0	8683.3	8637.6
12.5°	7872.1	7889.3	7889.3	8066.4	8203.5	8369.1	8506.2	8683.3	8917.5	9054.6	9123.2
15°	7980.7	7992.1	8049.2	8289.1	8494.8	8757.6	8883.2	9043.2	9174.6	9431.6	9437.4
17.5°	8077.8	8140.6	8312.0	8580.5	8837.6	9088.9	9288.8	9454.5	9568.8	9671.6	9648.8
20°	8443.4	8489.1	8666.2	8934.7	9317.4	9563.1	9631.6	9660.2	9734.5	9940.1	9877.3
22.5°	8797.5	8814.7	8980.4	9391.7	9660.2	9985.8	10060.0	10043.0	10071.5	10122.9	10214.3
25°	9163.2	9191.7	9420.3	9768.7	10145.7	10534.2	10597.1	10465.7	10425.7	10482.8	10488.5
27.5°	9631.6	9637.4	9928.7	10231.4	10659.9	11025.5	11122.6	11019.8	10831.3	10877.0	10951.2
30°	10225.7	10185.8	10477.1	10911.3	11362.6	11568.2	11733.9	11682.5	11476.8	11436.8	11374.0
32.5°	10911.3	10922.7	11185.5	11659.6	11956.7	12299.5	12476.6	12390.9	12259.5	12190.9	12230.9
35°	11876.7	11928.2	12105.3	12499.4	12979.2	13150.6	13430.6	13247.8	12905.0	12990.7	13064.9
37.5°	12670.8	12819.3	13150.6	13619.1	13904.8	14219.0	14321.7	14076.2	13824.8	13721.9	13967.6
40°	13887.6	13841.9	14207.5	14676.0	15098.7	15412.9	15281.5	15035.8	14413.1	14418.9	14487.4
42.5°	14933.0	14955.8	15235.8	15795.7	16372.6	16566.9	16149.8	15550.0	14858.8	14784.5	14933.0
45°	15812.8	15904.2	16064.1	16812.5	17378.1	17589.4	16818.2	16109.9	15184.3	14875.9	15121.5
47.5°	16127.0	16275.5	16624.0	17309.5	17869.3	18040.7	17423.8	16406.9	15487.2	14984.4	15115.8
50°	16172.7	16121.3	16692.5	17320.9	17812.2	18183.5	17640.8	16624.0	15412.9	15150.1	15110.1
52.5°	14921.6	15173.0	15784.2	16646.8	17640.8	18235.0	17835.1	16744.0	15515.7	15218.7	15121.5
55°	12076.7	11779.6	12893.6	14344.6	16172.7	17823.6	17766.5	16806.8	15578.5	15332.9	15201.5
57.5°	6741.0	6826.6	7455.0	9031.8	11391.2	14133.3	15795.7	16144.1	15550.0	15407.2	15475.7
60°	3119.1	3147.7	3416.2	4153.1	5615.6	8014.9	10202.9	12425.1	13447.8	13653.4	13653.4
62.5°	2325.1	2313.7	2382.2	2513.6	2822.1	3684.7	4918.7	6683.8	8089.2	9071.8	9328.9
65°	2102.2	2096.5	2130.8	2176.5	2199.4	2319.4	2593.6	3136.3	3593.3	3856.1	3810.4
67.5°	1839.5	1833.8	1845.2	1873.7	1913.8	1976.6	2045.1	2159.4	2319.4	2308.0	2279.4
70°	1485.3	1485.3	1502.4	1525.3	1571.0	1645.2	1725.2	1805.2	1942.3	1970.9	1965.2
72.5°	1096.8	1079.7	1114.0	1159.7	1205.4	1296.8	1382.4	1456.8	1553.8	1582.4	1571.0
75°	696.9	708.4	731.2	782.6	862.6	925.4	1016.9	1079.7	1142.6	1165.4	1171.1
77.5°	388.5	399.9	439.8	502.7	582.7	651.3	731.2	782.6	822.7	828.3	834.0
80°	234.2	239.9	279.9	337.1	405.6	479.9	542.7	594.1	628.4	611.2	605.5
82.5°	142.8	148.5	182.8	234.2	291.3	348.5	417.1	462.7	497.0	474.2	451.3
85°	74.3	80.0	108.6	142.8	188.6	217.1	217.1	194.3	188.6	177.1	171.4
87.5°	22.9	22.9	28.6	34.3	28.6	34.3	39.9	45.7	45.7	51.4	45.7
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)