

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: P647644

Luminaire Tested: **GALN-SA9D-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647644  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28642.9 lumens  
Efficiency: N/A  
Efficacy: 51.9 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

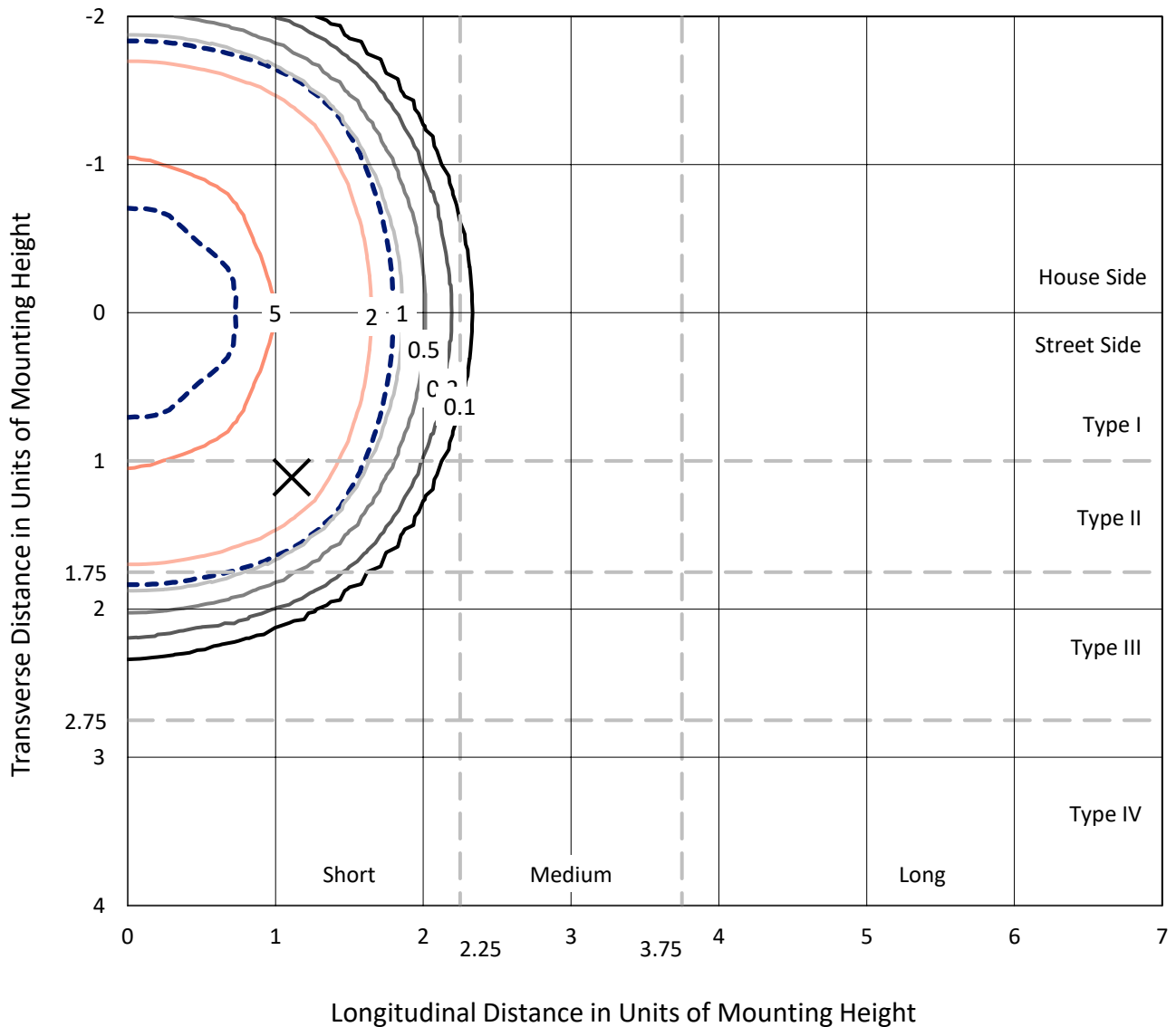
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

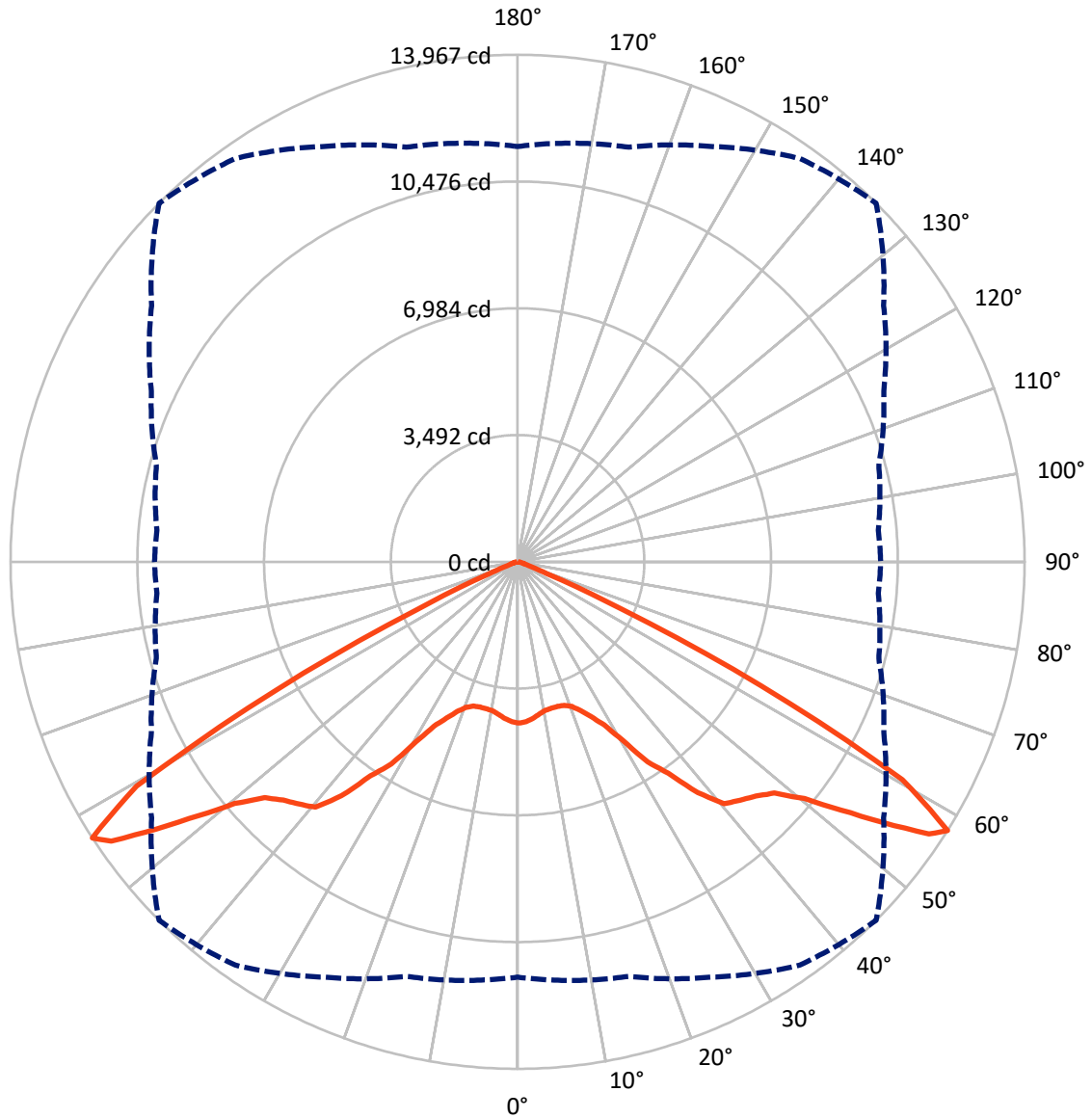
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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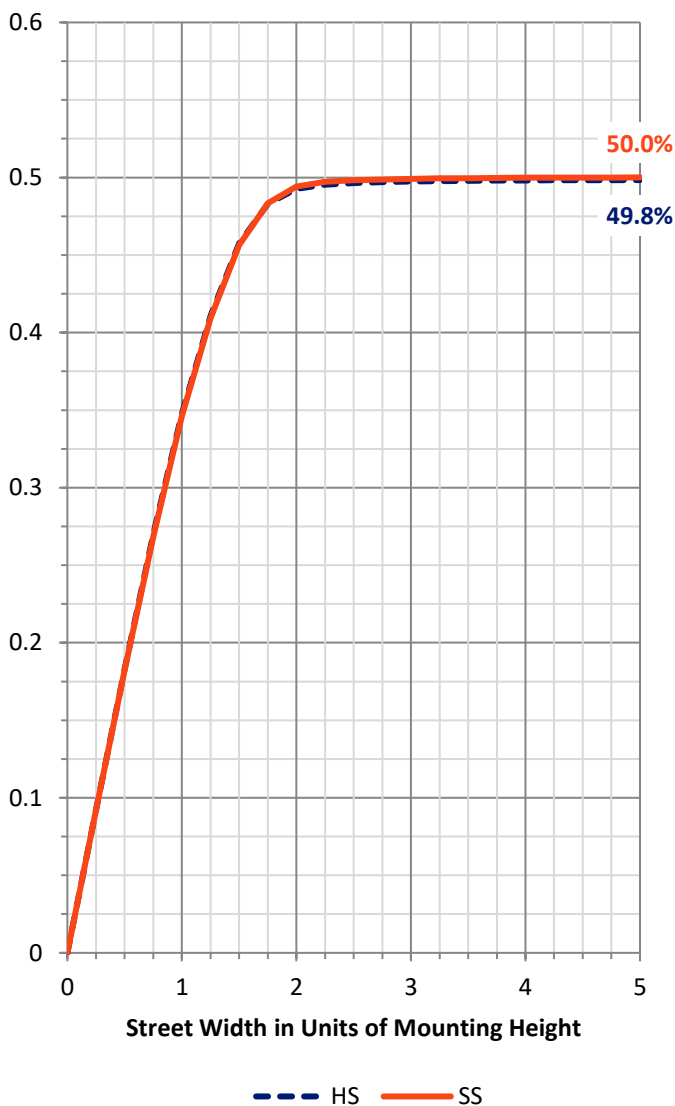
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14321.5	0.0	14321.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14321.5	0.0	14321.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28642.9	0.0	28642.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.3	1.4
10°-20°	1180.1	4.1
20°-30°	2178.3	7.6
30°-40°	4283.9	15.0
40°-50°	6977.3	24.4
50°-60°	9950.5	34.7
60°-70°	3445.1	12.0
70°-80°	184.8	0.6
80°-90°	34.7	0.1
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°	28642.9	100.0
0°-180°	28642.9	100.0

**Coefficient of Utilization**

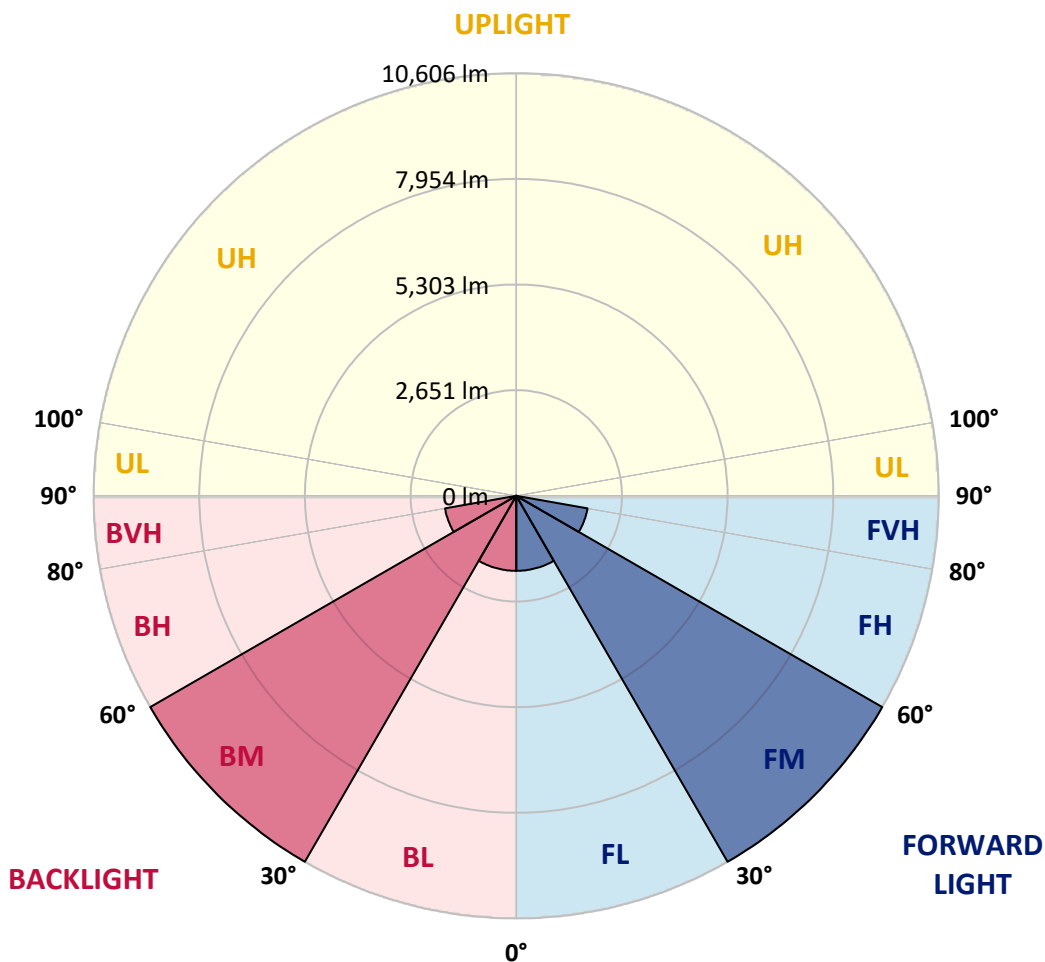


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1883.3	6.6			
FM (30°-60°)	10605.8	37.0			
FH (60°-80°)	1815.0	6.3			G2/5000
FVH (80°-90°)	17.4	0.1			G1/100
BL (0°-30°)	1883.3	6.6	B3/2500		
BM (30°-60°)	10605.8	37.0	B5		
BH (60°-80°)	1815.0	6.3	B3/2500		G2/5000
BVH (80°-90°)	17.4	0.1			G1/100
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°	4442.8	4442.8	4442.8	4442.8	4442.8	4442.8	4442.8	4442.8	4442.8	4442.8	4442.8
2.5°	4430.8	4454.7	4424.9	4413.0	4407.0	4407.0	4389.1	4389.1	4383.1	4389.1	4365.2
5°	4359.2	4383.1	4383.1	4377.1	4341.3	4335.3	4317.4	4305.5	4311.4	4287.6	4305.5
7.5°	4287.6	4305.5	4281.6	4275.6	4263.7	4239.8	4233.8	4180.0	4186.1	4186.1	4198.0
10°	4275.6	4269.6	4233.8	4203.9	4168.1	4162.2	4144.3	4132.3	4132.3	4126.3	4144.3
12.5°	4275.6	4245.7	4239.8	4174.1	4114.4	4138.2	4090.5	4060.6	4102.5	4114.4	4138.2
15°	4269.6	4299.5	4198.0	4168.1	4126.3	4132.3	4090.5	4060.6	4084.5	4096.5	4114.4
17.5°	4305.5	4287.6	4257.7	4198.0	4180.0	4156.2	4102.5	4078.6	4078.6	4108.4	4114.4
20°	4401.0	4353.2	4293.5	4263.7	4281.6	4251.7	4186.1	4096.5	4120.4	4144.3	4162.2
22.5°	4490.6	4454.7	4413.0	4395.1	4496.5	4448.8	4335.3	4233.8	4198.0	4239.8	4269.6
25°	4663.8	4663.8	4586.1	4610.0	4723.4	4729.5	4598.1	4418.9	4395.1	4413.0	4424.9
27.5°	5016.1	5034.0	4968.3	4992.2	5039.9	5081.7	4968.3	4819.1	4765.3	4759.3	4777.2
30°	5398.2	5434.1	5428.1	5529.6	5667.0	5690.8	5523.7	5278.8	5117.6	5087.8	5111.7
32.5°	5899.9	5917.8	5905.9	6025.3	6395.5	6568.7	6132.8	5786.4	5571.4	5625.2	5571.4
35°	6843.3	6825.5	6694.1	6718.0	7022.5	7147.9	6729.9	6509.0	6407.4	6515.0	6491.1
37.5°	7655.5	7589.8	7482.3	7637.6	7954.1	8067.6	7631.6	7243.5	7058.4	7237.5	7315.1
40°	8342.2	8175.0	8025.8	8181.0	8604.9	8760.2	8121.3	7804.8	7733.1	7864.5	8031.7
42.5°	8921.5	8814.0	8616.9	8628.9	8909.5	8981.2	8467.6	8282.5	8210.9	8419.8	8503.5
45°	9333.5	9232.0	9046.9	9035.0	9249.9	9202.1	8742.4	8616.9	8658.7	8796.1	8837.9
47.5°	9542.5	9596.2	9488.8	9518.6	9632.1	9518.6	9154.4	9154.4	9058.8	9142.4	9100.6
50°	10145.6	9978.4	10115.7	10115.7	10235.2	10247.1	9882.9	9751.5	9494.7	9351.4	9351.4
52.5°	10850.3	10862.2	10916.0	11113.0	11316.1	11489.2	10969.7	10408.3	9978.4	9793.3	9769.4
55°	11429.5	11548.9	11763.9	12134.2	12719.4	12958.2	12062.5	11059.2	10533.8	10247.1	10187.5
56°	11746.0	11632.6	12002.8	12510.4	13274.7	13585.2	12241.7	11190.6	10611.4	10288.9	10283.0
57.5°	11441.4	11566.9	11823.6	12623.8	13561.3	13967.4	12307.4	11130.9	10300.9	9972.4	10002.3
60°	9035.0	9154.4	9500.7	10396.4	11865.4	12181.9	10414.4	9178.2	8437.8	7966.0	7972.0
62.5°	5111.7	5201.2	5469.9	6299.9	7213.6	7518.1	6491.1	5667.0	5153.4	4890.7	4807.1
65°	1881.0	1845.2	1887.0	2310.9	2872.3	3129.1	2699.2	2281.1	2012.4	1916.9	1881.0
67.5°	704.6	650.9	609.1	650.9	818.1	865.8	794.2	662.8	621.1	638.9	650.9
70°	435.9	412.0	328.5	310.5	304.6	298.6	316.5	334.4	382.2	447.9	459.8
72.5°	304.6	286.7	232.9	221.0	209.0	203.0	232.9	256.7	298.6	346.3	352.4
75°	119.4	125.4	119.4	131.4	137.3	143.3	167.2	185.1	203.0	203.0	197.1
77.5°	23.9	23.9	35.9	47.8	59.7	77.6	113.5	131.4	137.3	131.4	113.5
80°	0.0	0.0	12.0	23.9	47.8	65.7	101.6	113.5	125.4	113.5	89.6
82.5°	0.0	0.0	12.0	29.8	47.8	59.7	95.5	119.4	137.3	125.4	95.5
85°	0.0	0.0	12.0	23.9	35.9	41.8	41.8	29.8	29.8	17.9	12.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)