

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: P651547

Luminaire Tested: **GALN-SA8D-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
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-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47319.7 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

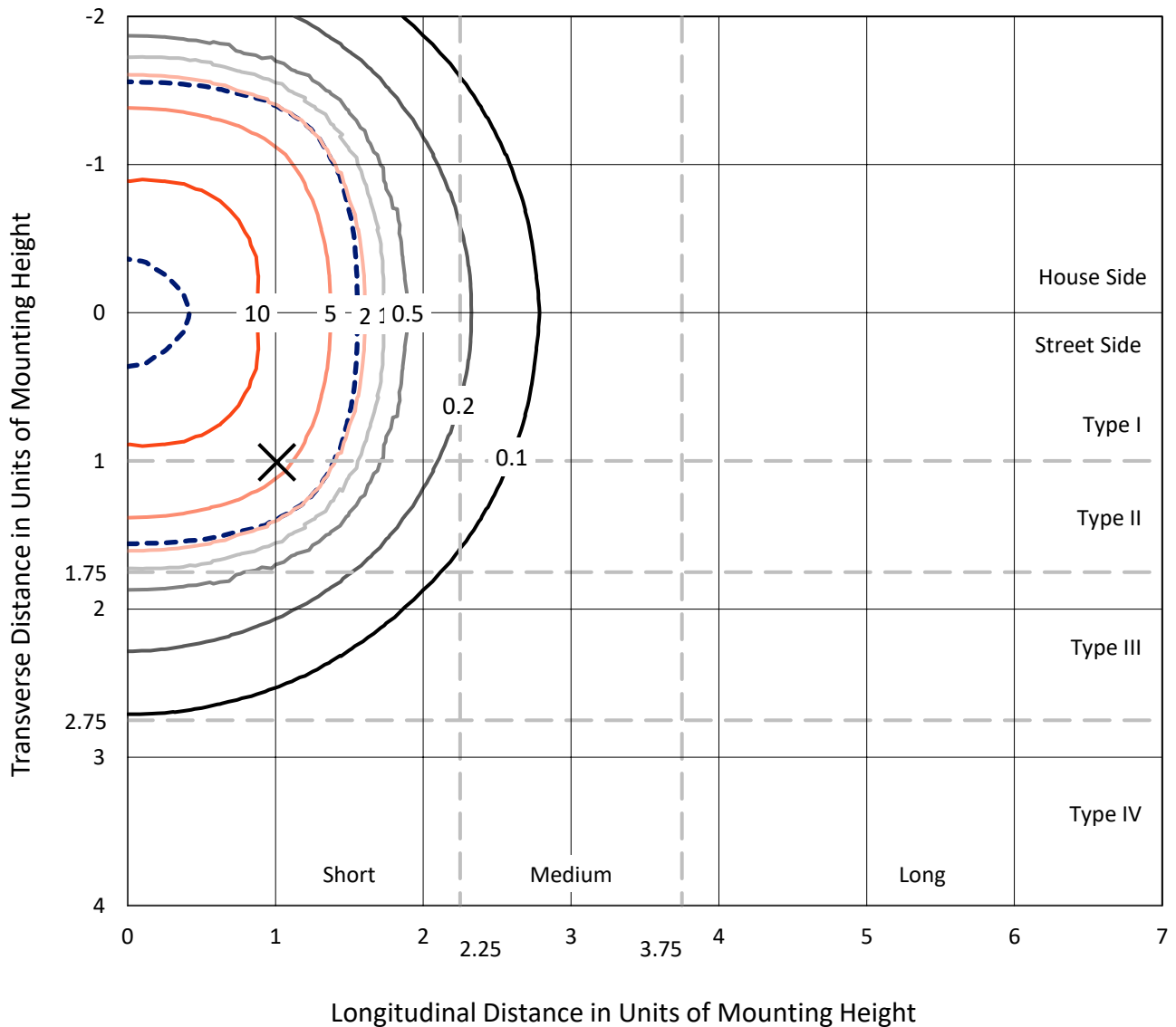
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

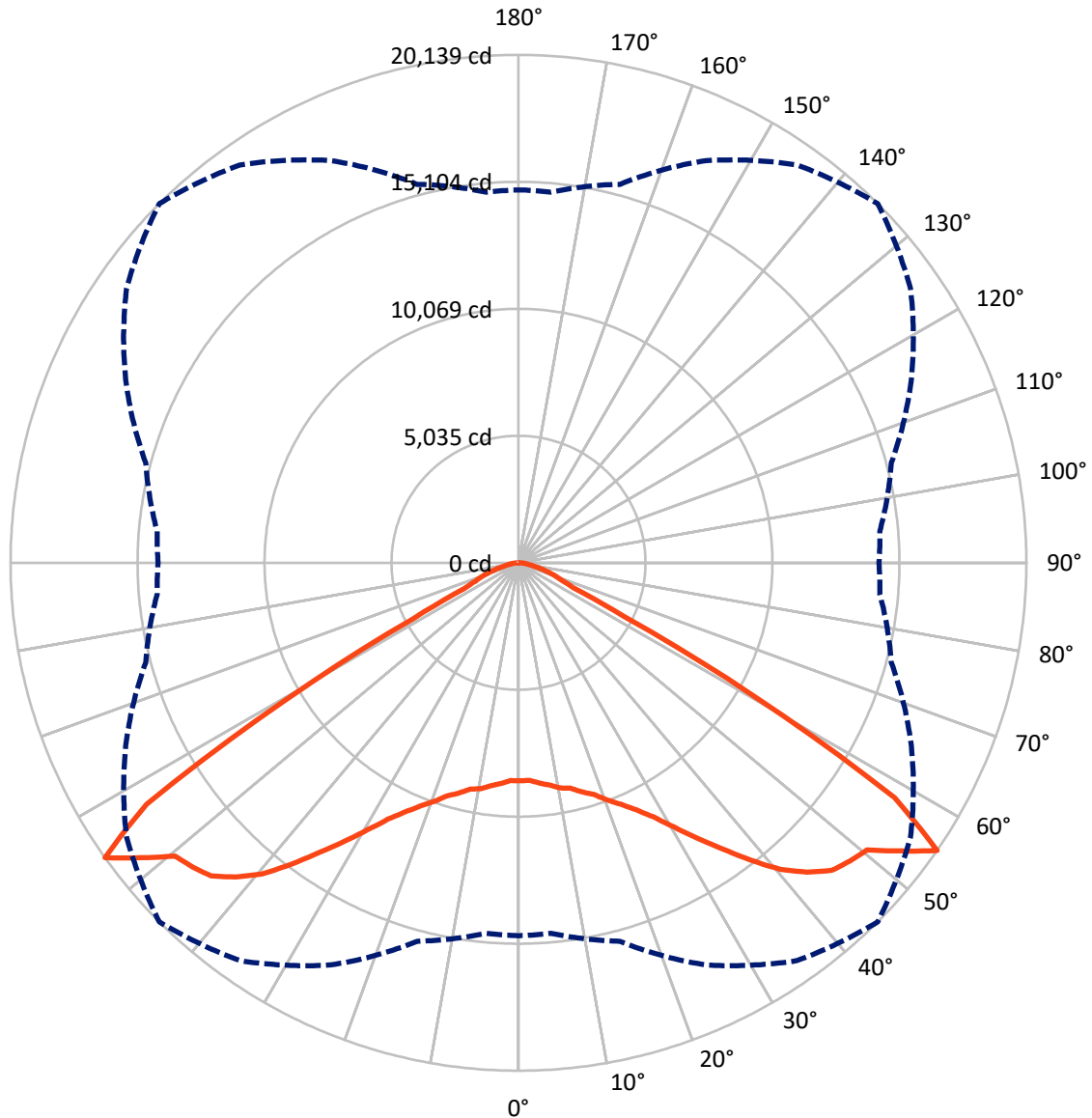
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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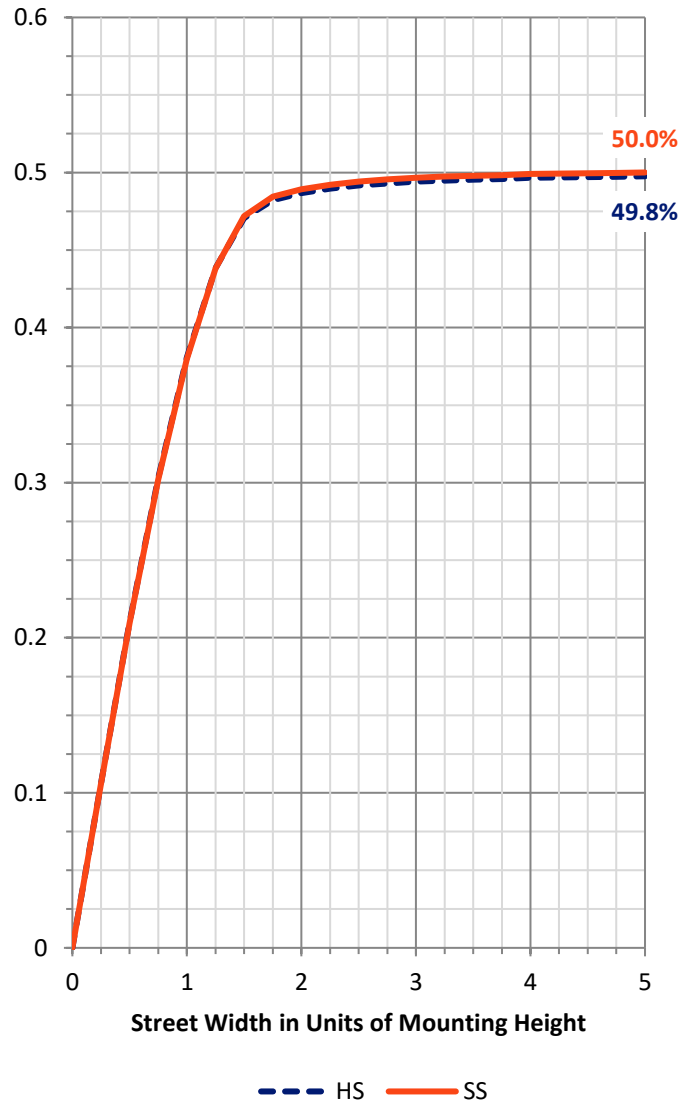
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23659.9	0.0	23659.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23659.9	0.0	23659.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47319.7	0.0	47319.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	844.0	1.8
10°-20°	2674.3	5.7
20°-30°	4986.8	10.5
30°-40°	8349.5	17.6
40°-50°	12992.4	27.5
50°-60°	13490.2	28.5
60°-70°	2860.8	6.0
70°-80°	942.2	2.0
80°-90°	179.4	0.4
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°	47319.7	100.0
0°-180°	47319.7	100.0

**Coefficient of Utilization**

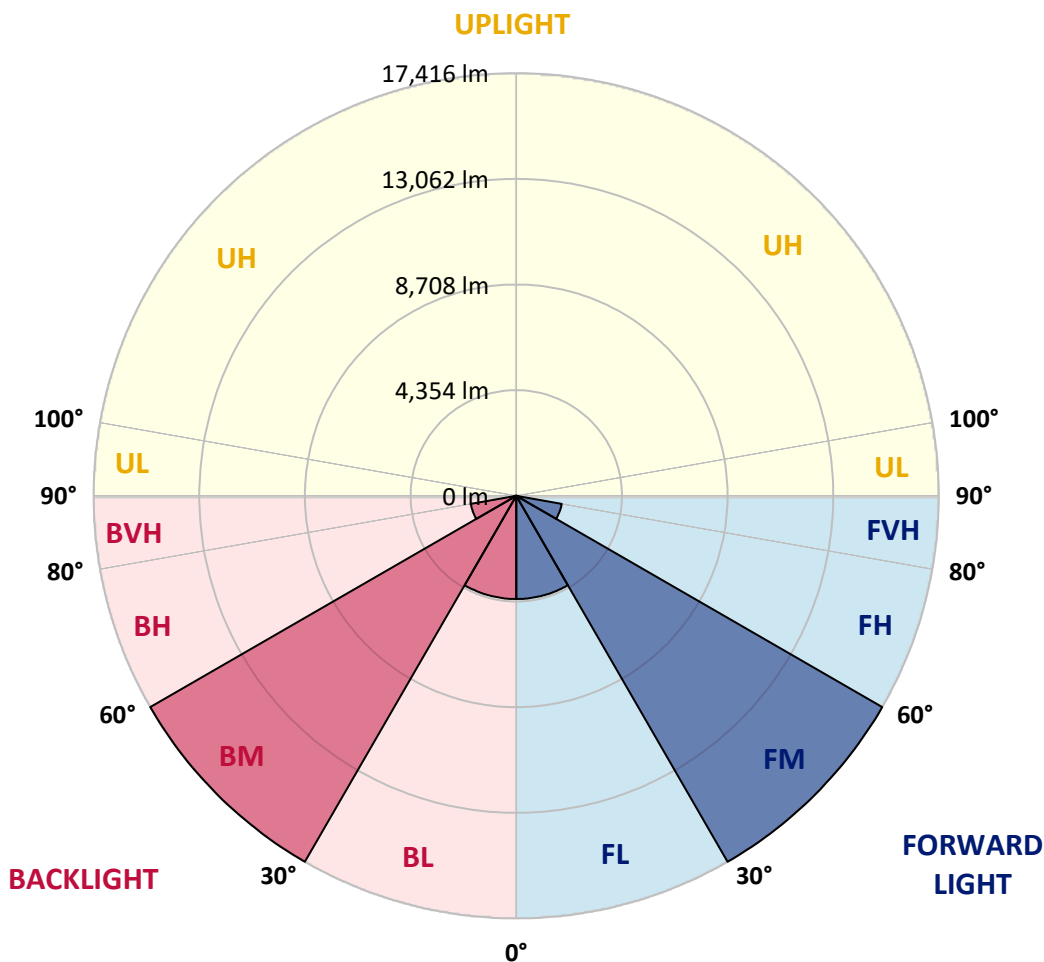


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4252.6	9.0			
FM (30°-60°)	17416.1	36.8			
FH (60°-80°)	1901.5	4.0			G2/5000
FVH (80°-90°)	89.7	0.2			G1/100
BL (0°-30°)	4252.6	9.0	B4/5000		
BM (30°-60°)	17416.1	36.8	B5		
BH (60°-80°)	1901.5	4.0	B3/2500		G2/5000
BVH (80°-90°)	89.7	0.2			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°	8639.8	8639.8	8639.8	8639.8	8639.8	8639.8	8639.8	8639.8	8639.8	8639.8	8639.8
2.5°	8742.8	8702.8	8634.1	8685.6	8725.6	8639.8	8674.2	8691.3	8679.9	8634.1	8651.3
5°	8868.6	8845.7	8788.5	8828.6	8777.1	8777.1	8742.8	8697.0	8765.7	8754.2	8782.8
7.5°	8868.6	8840.0	8954.4	8880.0	8902.9	8902.9	8845.7	8800.0	8834.3	8782.8	8754.2
10°	9045.9	9085.9	9034.4	9051.6	9040.2	9080.2	8994.4	8965.8	8937.2	8920.1	8885.8
12.5°	9257.4	9228.8	9246.0	9234.5	9274.5	9171.6	9120.2	9057.3	9108.8	9034.4	9085.9
15°	9429.0	9411.8	9429.0	9474.7	9434.7	9429.0	9337.5	9274.5	9194.5	9211.6	9131.6
17.5°	9663.4	9646.3	9652.0	9692.0	9686.3	9657.7	9589.1	9469.0	9440.4	9394.6	9343.2
20°	10012.2	9983.6	9972.2	9989.3	10017.9	10040.8	9903.5	9857.8	9760.6	9686.3	9600.5
22.5°	10309.5	10298.1	10343.8	10269.5	10332.4	10401.0	10269.5	10246.7	10006.5	9966.4	9874.9
25°	10721.2	10704.1	10675.5	10784.1	10858.5	10852.8	10727.0	10601.1	10418.1	10372.4	10372.4
27.5°	11155.8	11058.6	11207.3	11235.8	11367.4	11407.4	11298.8	11115.7	10944.2	10847.0	10869.9
30°	11699.0	11607.5	11641.8	11847.7	12019.2	12167.8	11893.4	11624.6	11384.5	11213.0	11184.4
32.5°	12242.2	12150.7	12253.6	12453.8	12796.8	13019.9	12751.1	12282.2	12002.1	11750.5	11801.9
35°	12682.4	12751.1	12916.9	13220.0	13574.5	13934.7	13505.9	13145.7	12745.4	12465.2	12505.2
37.5°	13391.5	13603.1	13734.6	14083.4	14586.6	14958.3	14512.2	14043.4	13614.5	13248.5	13122.8
40°	14317.9	14460.7	14609.4	15021.1	15615.8	15987.5	15564.4	14952.6	14529.4	14152.0	14134.9
42.5°	15335.6	15472.9	15627.2	16130.5	16484.9	16765.2	16376.3	16050.4	15581.5	15284.2	15267.0
45°	16519.3	16422.0	16593.6	16925.2	17222.6	17405.5	17154.0	16993.8	16656.5	16382.0	16353.4
47.5°	17308.4	17222.6	17531.3	17828.7	17874.4	17674.3	17725.8	17874.4	17519.9	17068.2	17211.1
50°	17765.8	17765.8	17971.6	18246.1	18160.3	17903.0	18309.0	18320.4	17965.9	17565.6	17565.6
52.5°	16971.0	17148.2	17731.5	18629.2	18915.1	18989.4	18897.9	18509.1	17582.8	16765.2	16725.1
55°	14786.7	14746.7	15535.8	17594.2	19258.1	20138.8	18972.3	17182.6	15301.3	14380.8	14289.3
57.5°	9617.7	9663.4	10841.3	12939.8	15941.7	17582.8	15615.8	13099.9	10841.3	9571.9	9692.0
60°	4328.5	4482.9	5197.6	6764.4	9343.2	10681.2	9366.0	7107.5	5455.0	4734.5	4797.4
62.5°	2487.3	2515.9	2544.5	3019.1	3979.7	4705.9	4134.1	3190.7	2813.2	2687.4	2687.4
65°	2098.5	2081.3	2087.0	2127.1	2230.0	2378.7	2315.8	2230.0	2241.4	2230.0	2212.8
67.5°	1784.0	1806.9	1789.7	1818.3	1824.0	1846.9	1887.0	1921.3	1927.0	1938.4	1927.0
70°	1463.8	1469.6	1480.9	1503.8	1509.5	1526.7	1583.9	1612.4	1629.6	1629.6	1652.5
72.5°	1120.7	1115.0	1126.4	1149.3	1177.9	1183.6	1235.1	1275.1	1298.0	1269.4	1275.1
75°	737.6	743.4	760.5	777.7	817.7	857.7	874.9	914.8	920.6	932.0	903.4
77.5°	440.3	451.7	468.9	503.2	537.5	571.8	611.8	640.4	651.9	640.4	606.1
80°	285.9	285.9	308.7	337.3	377.4	406.0	428.8	451.7	468.9	451.7	440.3
82.5°	177.3	177.3	205.9	240.2	268.8	285.9	320.2	348.8	365.9	354.5	337.3
85°	91.5	97.2	120.1	148.7	171.6	183.0	177.3	160.1	143.0	137.3	125.8
87.5°	28.6	28.6	34.3	34.3	28.6	28.6	34.3	28.6	34.3	34.3	34.3
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)