

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: P651604

Luminaire Tested: **GALN-SA9D-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651604  
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-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 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: 30764.6 lumens  
Efficiency: N/A  
Efficacy: 55.7 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

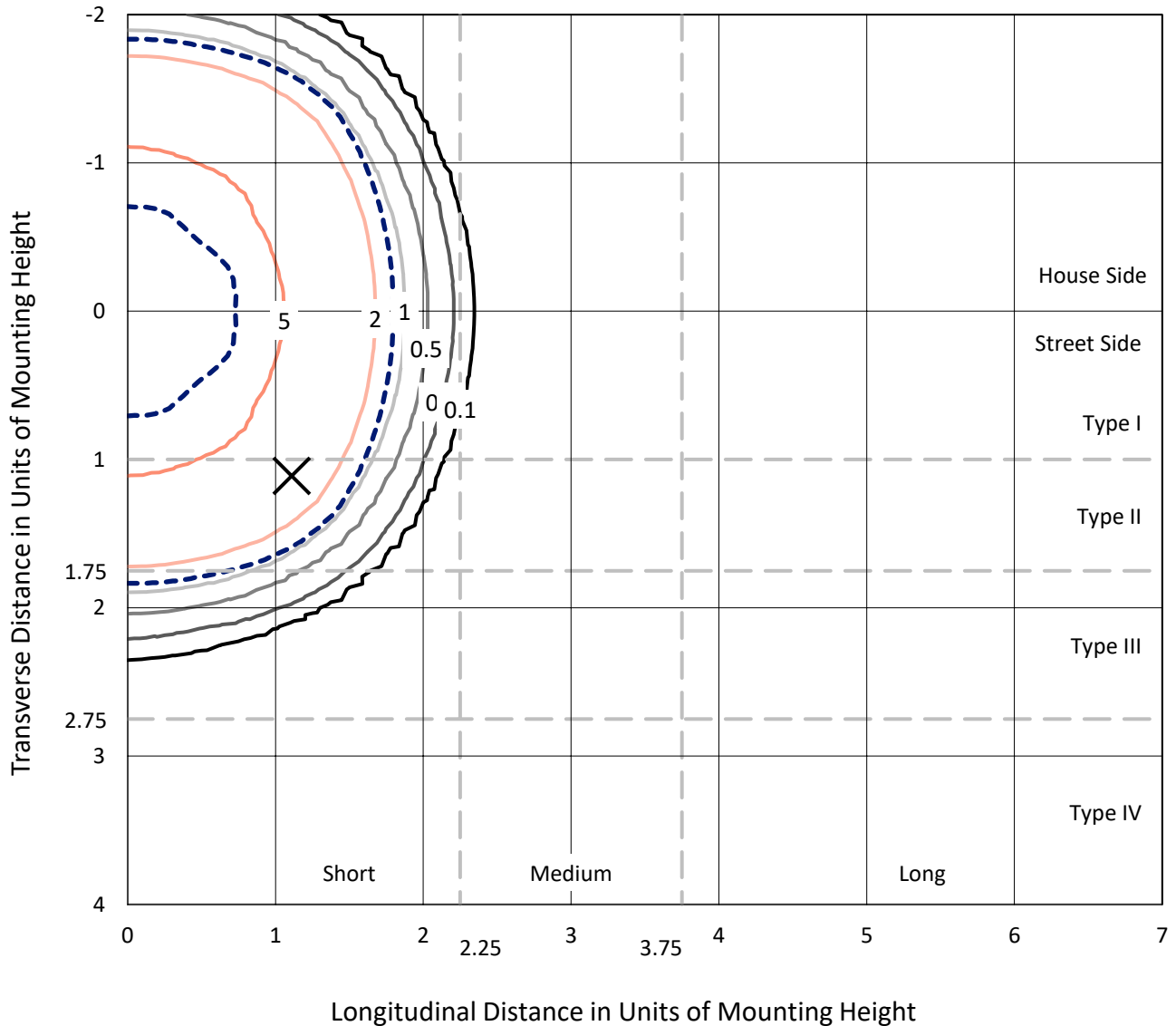
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

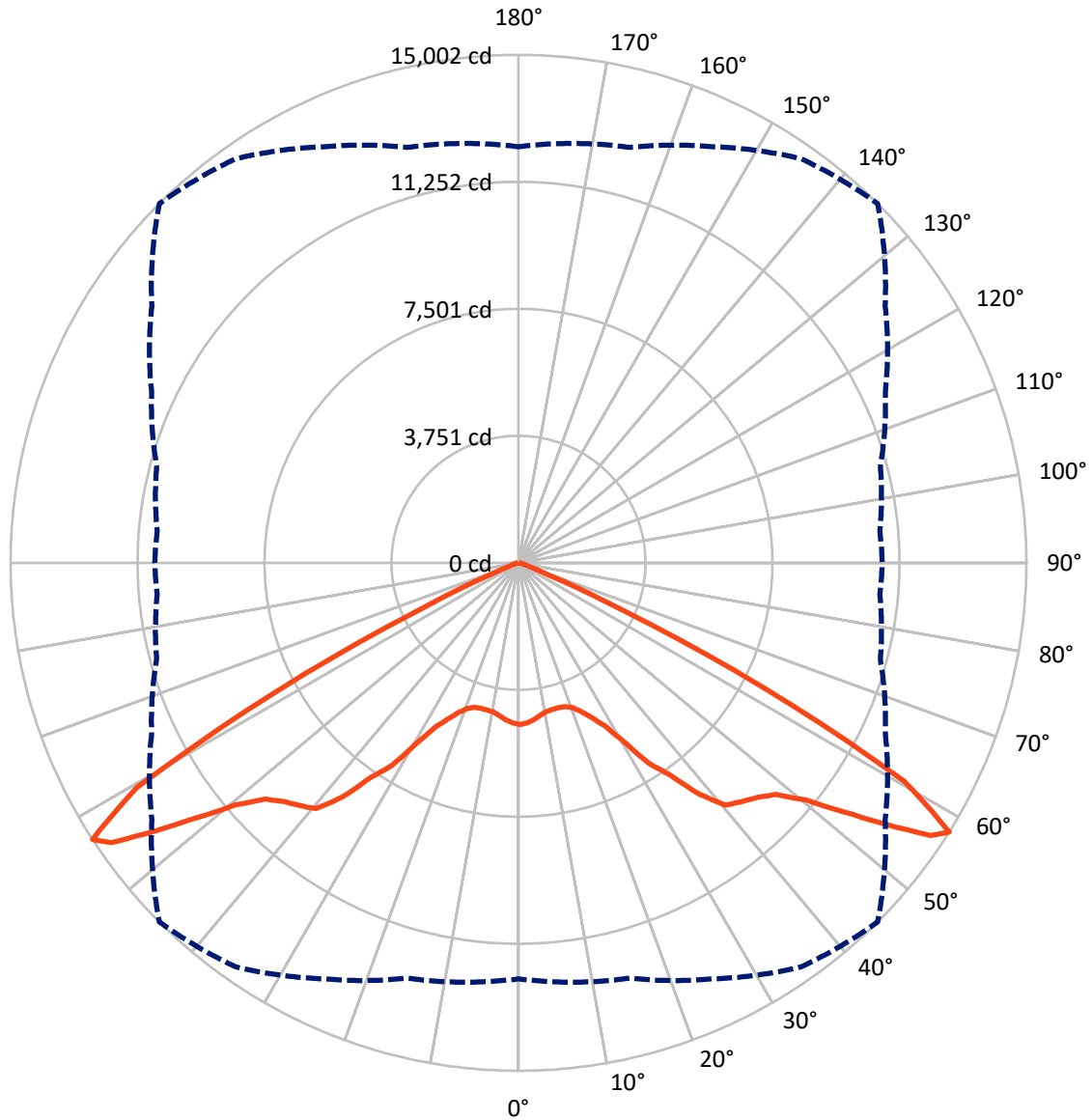
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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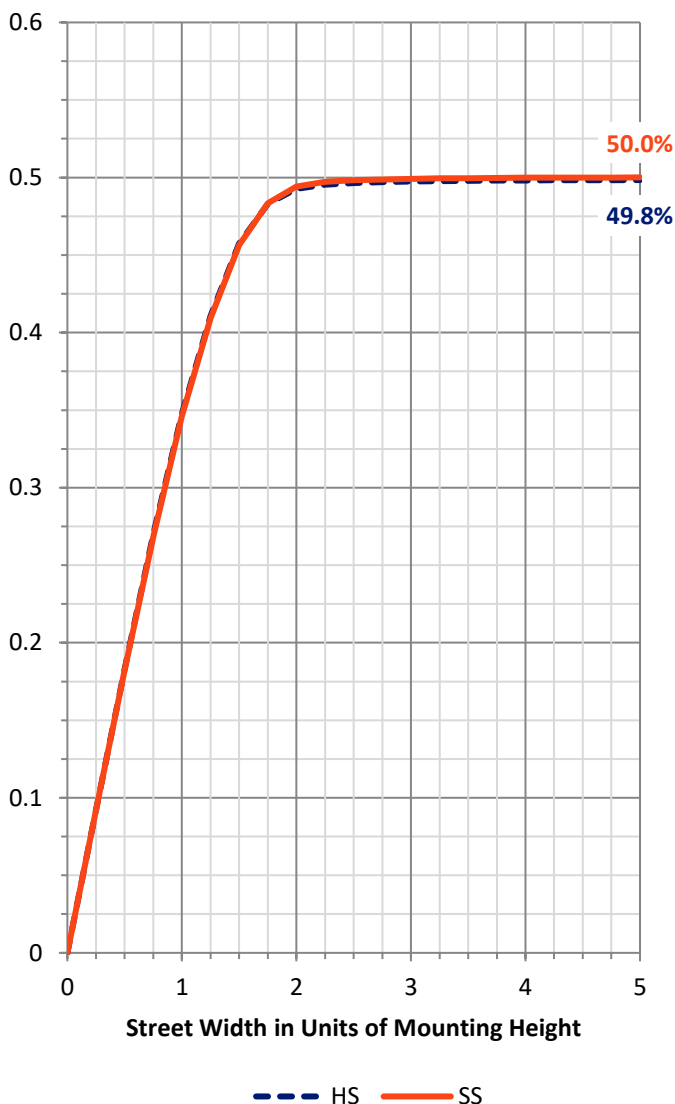
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15382.3	0.0	15382.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15382.3	0.0	15382.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30764.6	0.0	30764.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.5	1.4
10°-20°	1267.5	4.1
20°-30°	2339.7	7.6
30°-40°	4601.2	15.0
40°-50°	7494.1	24.4
50°-60°	10687.5	34.7
60°-70°	3700.3	12.0
70°-80°	198.5	0.6
80°-90°	37.3	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°	30764.6	100.0
0°-180°	30764.6	100.0

**Coefficient of Utilization**

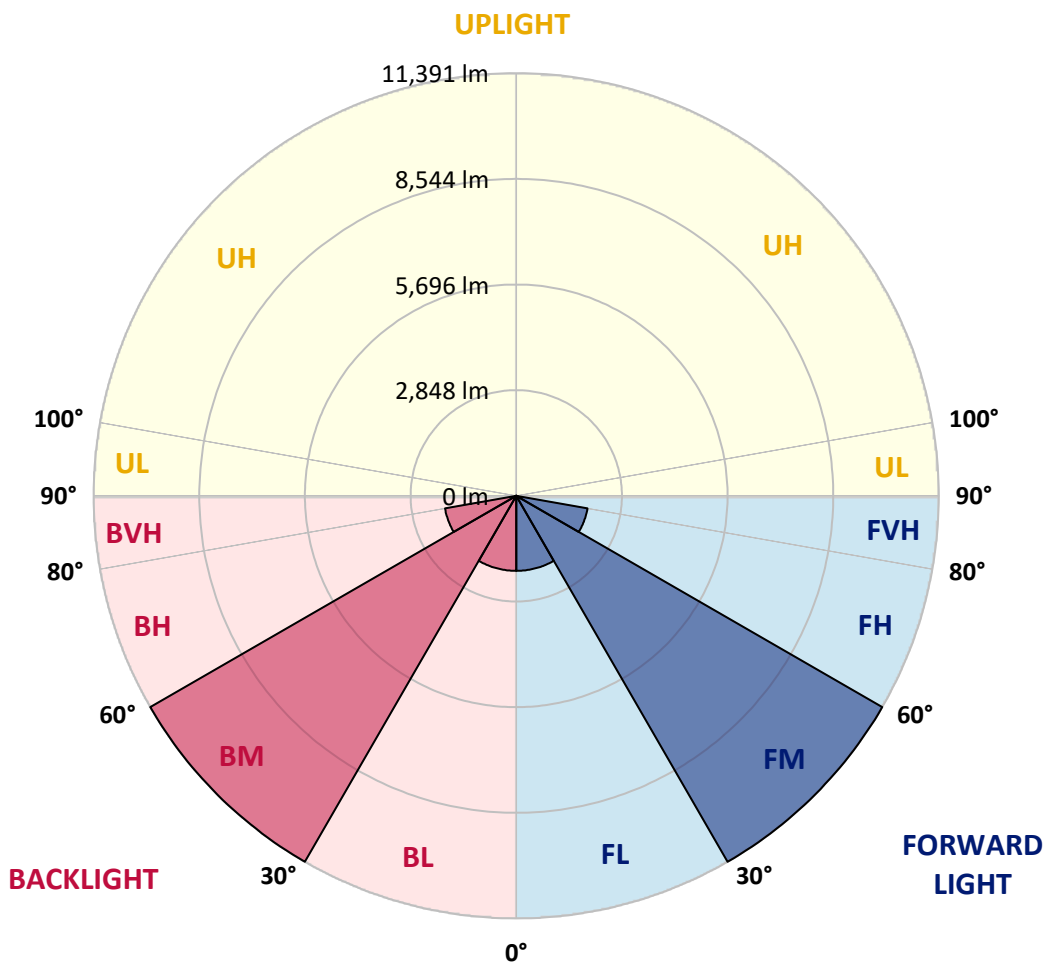


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2022.8	6.6			
FM (30°-60°)	11391.4	37.0			
FH (60°-80°)	1949.4	6.3			G2/5000
FVH (80°-90°)	18.6	0.1			G1/100
BL (0°-30°)	2022.8	6.6	B3/2500		
BM (30°-60°)	11391.4	37.0	B5		
BH (60°-80°)	1949.4	6.3	B3/2500		G2/5000
BVH (80°-90°)	18.6	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°	4771.9	4771.9	4771.9	4771.9	4771.9	4771.9	4771.9	4771.9	4771.9	4771.9	4771.9
2.5°	4759.1	4784.7	4752.7	4739.9	4733.4	4733.4	4714.2	4714.2	4707.7	4714.2	4688.6
5°	4682.1	4707.7	4707.7	4701.4	4662.8	4656.4	4637.2	4624.4	4630.8	4605.1	4624.4
7.5°	4605.1	4624.4	4598.8	4592.4	4579.5	4553.8	4547.5	4489.7	4496.2	4496.2	4508.9
10°	4592.4	4585.9	4547.5	4515.3	4476.9	4470.5	4451.2	4438.4	4438.4	4432.0	4451.2
12.5°	4592.4	4560.2	4553.8	4483.3	4419.1	4444.8	4393.5	4361.4	4406.3	4419.1	4444.8
15°	4585.9	4618.0	4508.9	4476.9	4432.0	4438.4	4393.5	4361.4	4387.1	4399.9	4419.1
17.5°	4624.4	4605.1	4573.1	4508.9	4489.7	4464.0	4406.3	4380.7	4380.7	4412.7	4419.1
20°	4727.0	4675.7	4611.5	4579.5	4598.8	4566.6	4496.2	4399.9	4425.6	4451.2	4470.5
22.5°	4823.2	4784.7	4739.9	4720.6	4829.6	4778.3	4656.4	4547.5	4508.9	4553.8	4585.9
25°	5009.2	5009.2	4925.8	4951.5	5073.3	5079.8	4938.7	4746.3	4720.6	4739.9	4752.7
27.5°	5387.6	5406.9	5336.3	5362.0	5413.3	5458.2	5336.3	5176.0	5118.2	5111.9	5131.1
30°	5798.1	5836.6	5830.2	5939.2	6086.7	6112.4	5932.8	5669.9	5496.7	5464.6	5490.3
32.5°	6336.9	6356.1	6343.3	6471.6	6869.3	7055.2	6587.0	6215.1	5984.1	6041.8	5984.1
35°	7350.3	7331.1	7190.0	7215.6	7542.7	7677.4	7228.4	6991.1	6882.1	6997.5	6971.9
37.5°	8222.5	8152.0	8036.6	8203.4	8543.3	8665.2	8196.9	7780.0	7581.2	7773.6	7857.0
40°	8960.2	8780.5	8620.2	8787.0	9242.3	9409.1	8722.9	8382.9	8306.0	8447.1	8626.6
42.5°	9582.4	9466.9	9255.2	9268.1	9569.5	9646.4	9094.8	8896.0	8819.1	9043.5	9133.3
45°	10024.9	9915.8	9717.0	9704.2	9935.1	9883.8	9389.9	9255.2	9300.1	9447.6	9492.5
47.5°	10249.4	10307.0	10191.7	10223.7	10345.6	10223.7	9832.5	9832.5	9729.9	9819.6	9774.7
50°	10897.2	10717.5	10865.0	10865.0	10993.4	11006.2	10614.9	10473.8	10198.1	10044.1	10044.1
52.5°	11654.0	11666.9	11724.5	11936.2	12154.3	12340.2	11782.2	11179.3	10717.5	10518.7	10493.1
55°	12276.2	12404.4	12635.4	13033.0	13661.5	13918.0	12956.0	11878.5	11314.1	11006.2	10942.1
56°	12616.1	12494.2	12891.9	13437.1	14258.1	14591.5	13148.4	12019.6	11397.4	11051.1	11044.7
57.5°	12288.9	12423.7	12699.4	13558.9	14565.9	15002.0	13219.0	11955.4	11063.9	10711.1	10743.2
60°	9704.2	9832.5	10204.4	11166.5	12744.3	13084.3	11185.8	9858.1	9062.8	8556.1	8562.5
62.5°	5490.3	5586.5	5875.1	6766.6	7748.0	8075.0	6971.9	6086.7	5535.1	5253.0	5163.2
65°	2020.3	1981.9	2026.8	2482.1	3085.0	3360.9	2899.1	2450.1	2161.5	2058.9	2020.3
67.5°	756.8	699.1	654.2	699.1	878.7	930.0	853.0	711.9	667.1	686.3	699.1
70°	468.2	442.5	352.8	333.5	327.1	320.7	339.9	359.2	410.5	481.1	493.8
72.5°	327.1	307.9	250.1	237.3	224.5	218.1	250.1	275.8	320.7	372.0	378.4
75°	128.3	134.7	128.3	141.1	147.5	153.9	179.6	198.8	218.1	218.1	211.7
77.5°	25.7	25.7	38.5	51.3	64.2	83.3	121.9	141.1	147.5	141.1	121.9
80°	0.0	0.0	12.9	25.7	51.3	70.6	109.1	121.9	134.7	121.9	96.2
82.5°	0.0	0.0	12.9	32.0	51.3	64.2	102.6	128.3	147.5	134.7	102.6
85°	0.0	0.0	12.9	25.7	38.5	44.9	44.9	32.0	32.0	19.3	12.9
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)