

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: P651357

Luminaire Tested: **GALN-SA4D-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651357  
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-SA4D-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 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: 25691.7 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

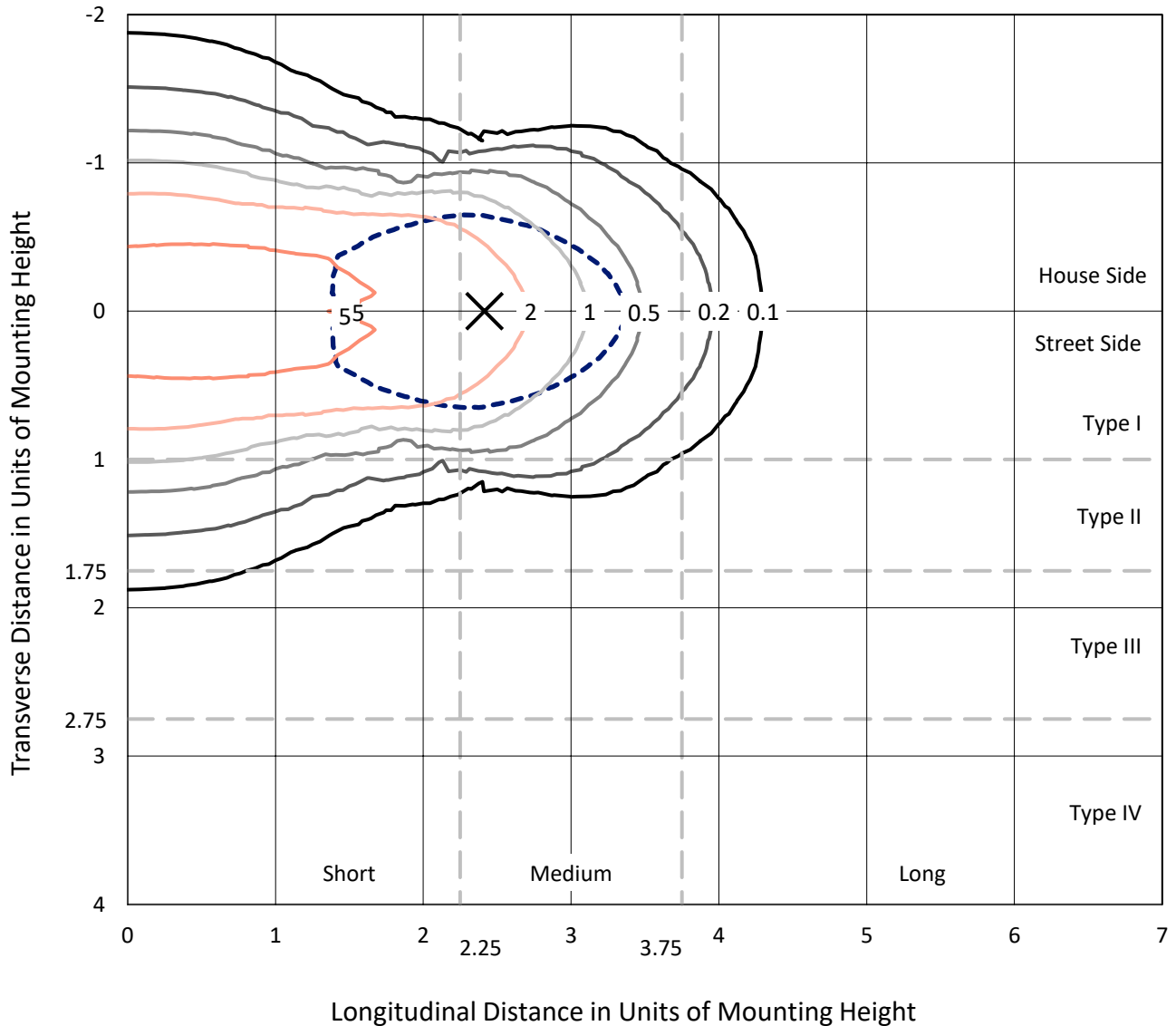
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

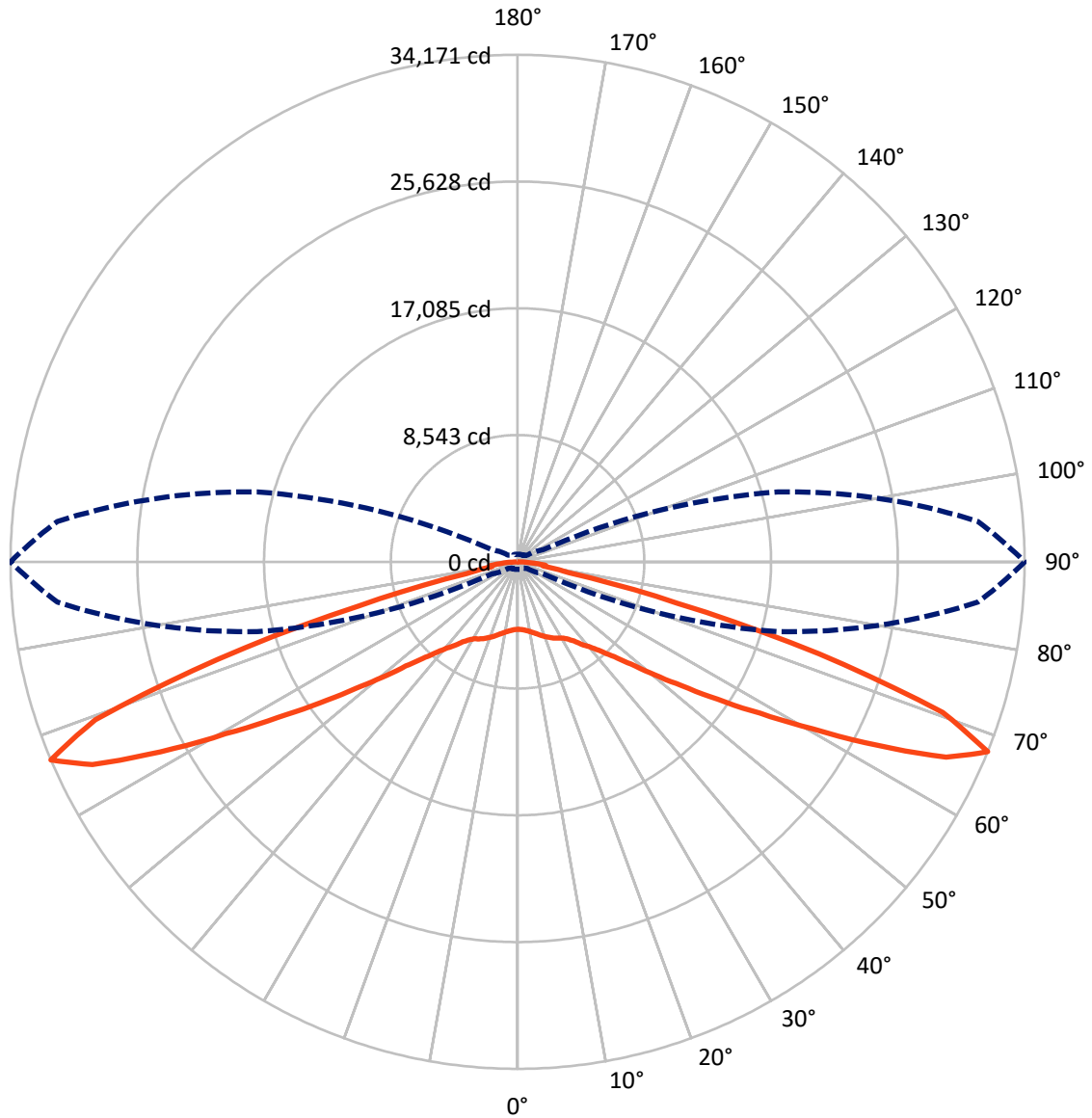
× Max cd  
 - - - 1/2 Max cd



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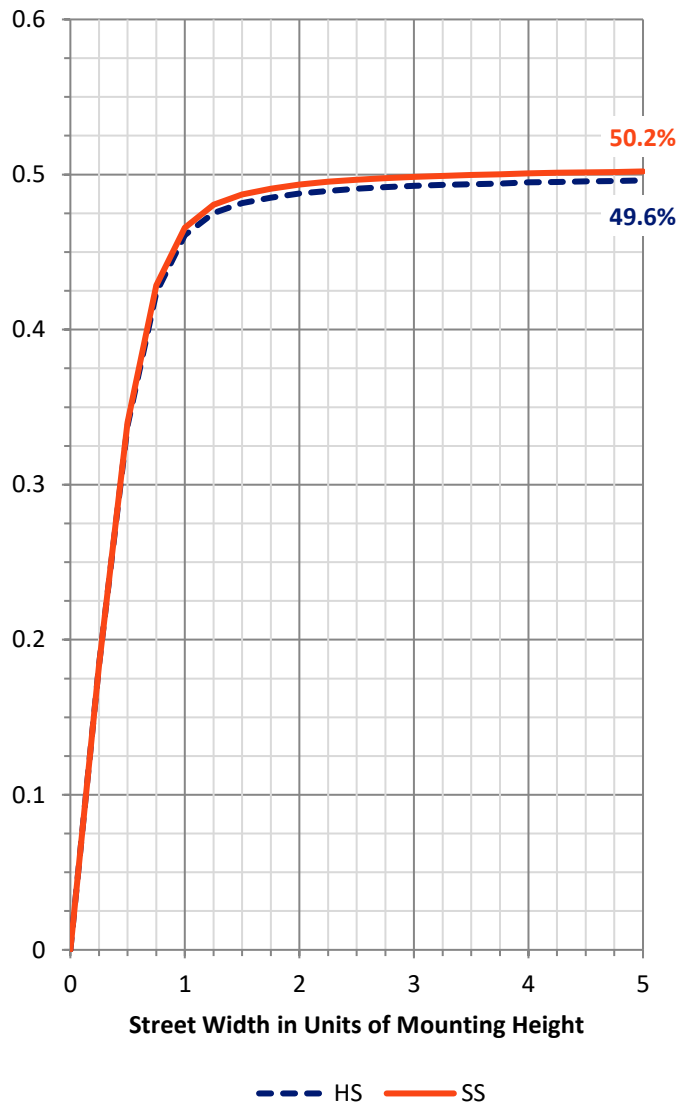
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12845.9	0.0	12845.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12845.9	0.0	12845.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25691.7	0.0	25691.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.5	1.8
10°-20°	1450.8	5.6
20°-30°	2428.3	9.5
30°-40°	3289.7	12.8
40°-50°	4167.0	16.2
50°-60°	5205.6	20.3
60°-70°	6118.9	23.8
70°-80°	2340.8	9.1
80°-90°	237.1	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°	25691.7	100.0
0°-180°	25691.7	100.0

**Coefficient of Utilization**

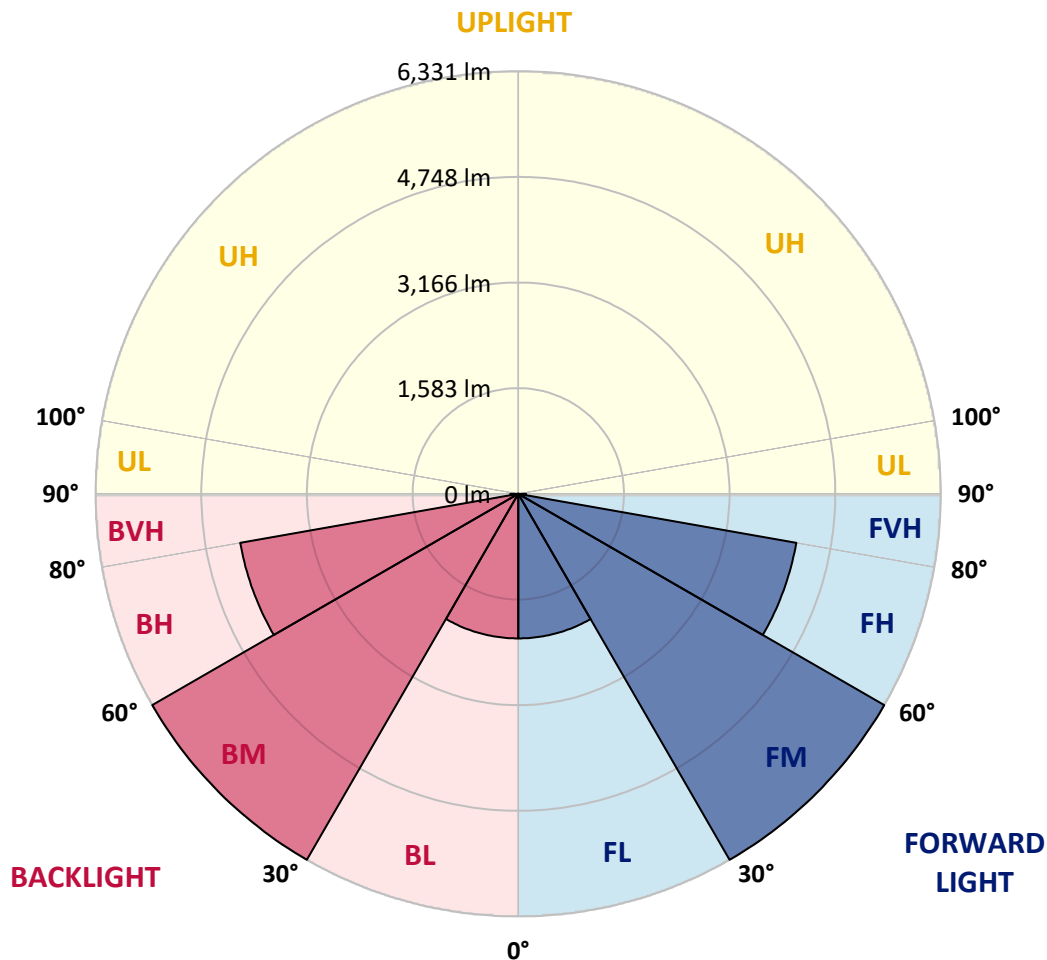


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2166.3	8.4			
FM (30°-60°)	6331.1	24.6			
FH (60°-80°)	4229.8	16.5			G2/5000
FVH (80°-90°)	118.6	0.5			G2/225
BL (0°-30°)	2166.3	8.4	B3/2500		
BM (30°-60°)	6331.1	24.6	B4/8500		
BH (60°-80°)	4229.8	16.5	B4/5000		G4/5000
BVH (80°-90°)	118.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2
2.5°	4606.6	4603.7	4605.1	4603.7	4608.0	4605.1	4588.1	4573.9	4562.4	4563.9	4559.6
5°	4704.7	4706.2	4707.6	4700.4	4710.4	4704.7	4677.7	4654.9	4632.1	4623.6	4620.8
7.5°	4785.8	4792.9	4797.2	4804.3	4821.4	4821.4	4807.2	4774.4	4724.7	4696.2	4694.8
10°	4866.9	4872.6	4885.4	4908.2	4936.6	4963.7	4957.9	4913.9	4849.8	4801.4	4790.1
12.5°	4895.4	4902.4	4945.2	5010.6	5074.6	5127.2	5127.2	5091.7	5009.2	4935.2	4913.9
15°	4795.8	4808.6	4885.4	5024.8	5192.7	5308.0	5333.5	5283.8	5195.5	5081.7	5056.1
17.5°	4598.0	4629.3	4741.7	4948.0	5226.8	5465.8	5539.8	5515.6	5401.8	5256.8	5226.8
20°	4386.1	4420.2	4539.7	4812.9	5198.4	5558.3	5773.1	5778.8	5638.0	5427.4	5383.3
22.5°	4152.8	4178.3	4332.0	4652.1	5113.0	5579.7	5973.7	6071.9	5881.3	5598.1	5535.5
25°	3891.0	3919.4	4080.2	4425.8	4952.2	5555.5	6157.3	6373.5	6135.9	5780.3	5700.6
27.5°	3640.6	3652.0	3824.1	4175.5	4740.3	5492.9	6292.4	6650.9	6417.6	5931.1	5830.1
30°	3400.2	3427.2	3579.4	3926.5	4497.0	5370.5	6409.1	6966.8	6720.6	6089.0	5959.5
32.5°	3145.5	3178.2	3343.2	3694.6	4253.8	5187.0	6480.2	7312.5	7143.1	6345.0	6207.1
35°	2900.8	2922.1	3088.6	3430.0	4016.2	4973.6	6493.0	7702.3	7688.0	6733.5	6549.9
37.5°	2650.4	2681.7	2849.6	3176.8	3764.3	4747.4	6429.0	8116.2	8345.3	7272.6	7074.8
40°	2410.0	2437.0	2602.1	2932.1	3478.4	4471.4	6276.7	8494.7	9112.2	7827.4	7547.2
42.5°	2148.3	2155.3	2336.0	2671.8	3198.2	4151.3	6057.6	8831.8	9967.1	8571.5	8223.0
45°	1850.9	1869.4	2037.2	2367.3	2876.6	3792.8	5760.3	9110.7	11051.2	9603.0	9127.8
47.5°	1553.6	1569.2	1722.9	2048.6	2525.2	3381.7	5302.3	9355.4	12163.7	10913.2	10290.1
50°	1263.4	1271.8	1397.1	1685.9	2129.7	2949.1	4734.6	9433.7	13421.4	12768.3	11973.1
52.5°	998.7	1011.5	1106.8	1333.1	1707.1	2438.4	4121.4	9240.2	14889.5	14967.8	13846.7
55°	809.5	813.8	884.9	1051.3	1334.4	1903.5	3381.7	8701.0	16468.6	17786.1	16356.3
57.5°	697.1	700.0	739.7	832.3	1027.2	1435.4	2623.4	7680.9	17887.1	21088.1	19250.0
60°	633.1	634.5	657.2	711.3	813.8	1101.1	1879.3	6241.2	19287.0	24762.7	22846.4
62.5°	593.2	593.2	608.9	638.7	688.5	845.0	1361.5	4502.7	20245.8	28491.6	27279.4
65°	554.8	554.8	566.2	587.5	614.6	691.4	1005.8	2936.4	20221.7	31207.4	31738.1
67.5°	510.7	510.7	519.2	540.6	556.2	594.7	776.7	1923.5	18164.5	31147.6	34170.8
70°	458.1	458.1	469.4	487.9	500.8	525.0	613.2	1316.0	13344.5	26595.1	30389.4
72.5°	405.4	406.9	414.0	432.5	442.5	456.7	509.3	921.9	8186.0	18109.0	21248.8
75°	347.2	349.9	357.1	375.6	384.1	389.8	429.7	657.2	4141.3	9763.7	11116.7
77.5°	280.3	285.9	290.2	310.2	315.8	324.4	354.2	475.2	1818.2	3508.2	3539.6
80°	204.9	212.0	224.8	243.3	247.5	253.2	270.3	337.2	823.8	1601.9	1739.9
82.5°	150.8	160.8	145.1	169.3	169.3	162.1	190.7	226.2	378.4	1586.3	1897.8
85°	82.5	83.9	75.4	86.8	92.5	91.1	101.0	110.9	183.5	1058.5	1091.2
87.5°	19.9	21.4	22.8	27.0	32.7	32.7	35.6	31.3	59.7	342.9	196.3
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)