

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: P651381

Luminaire Tested: **GALN-SA5D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22382.4 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

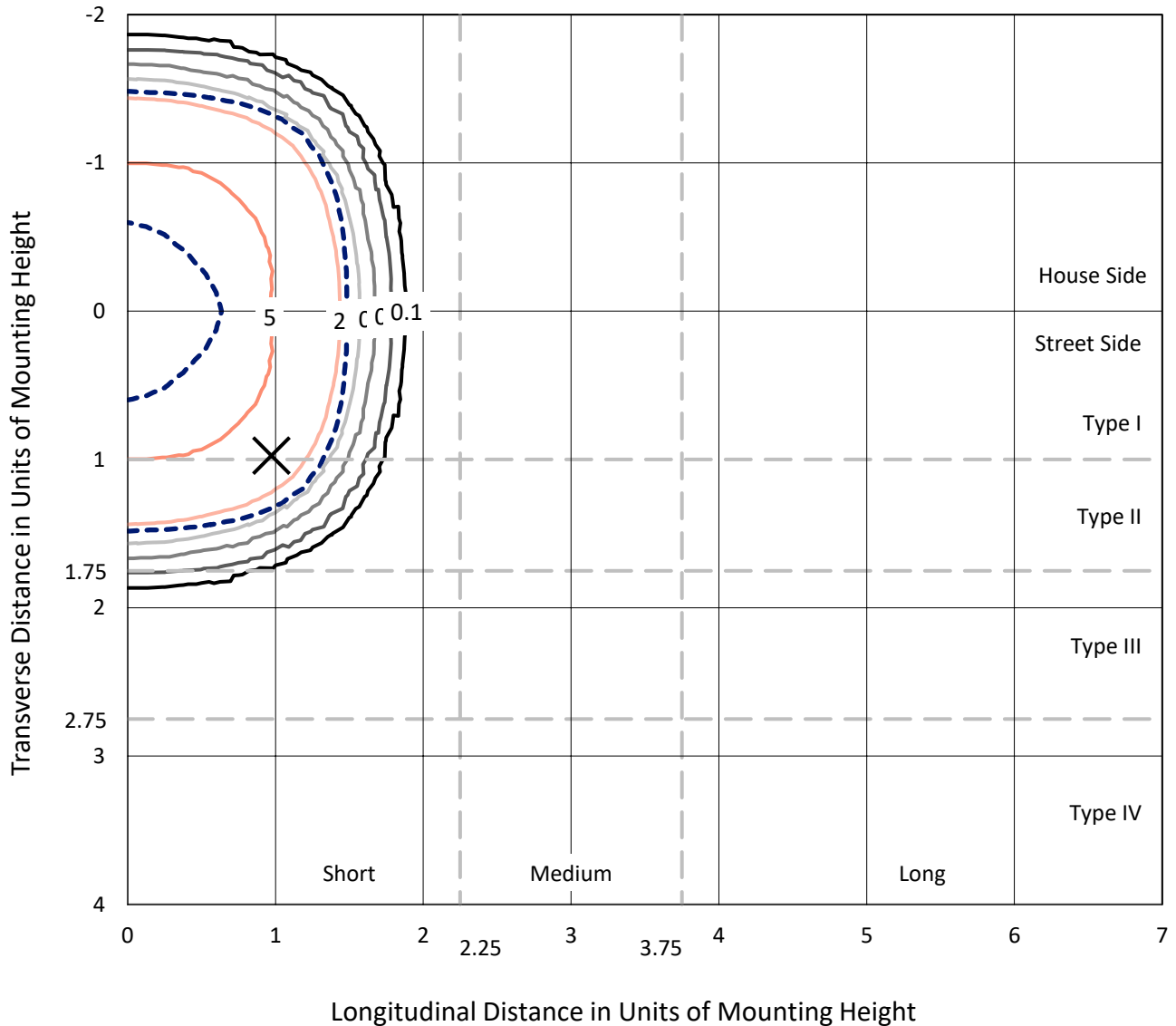
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

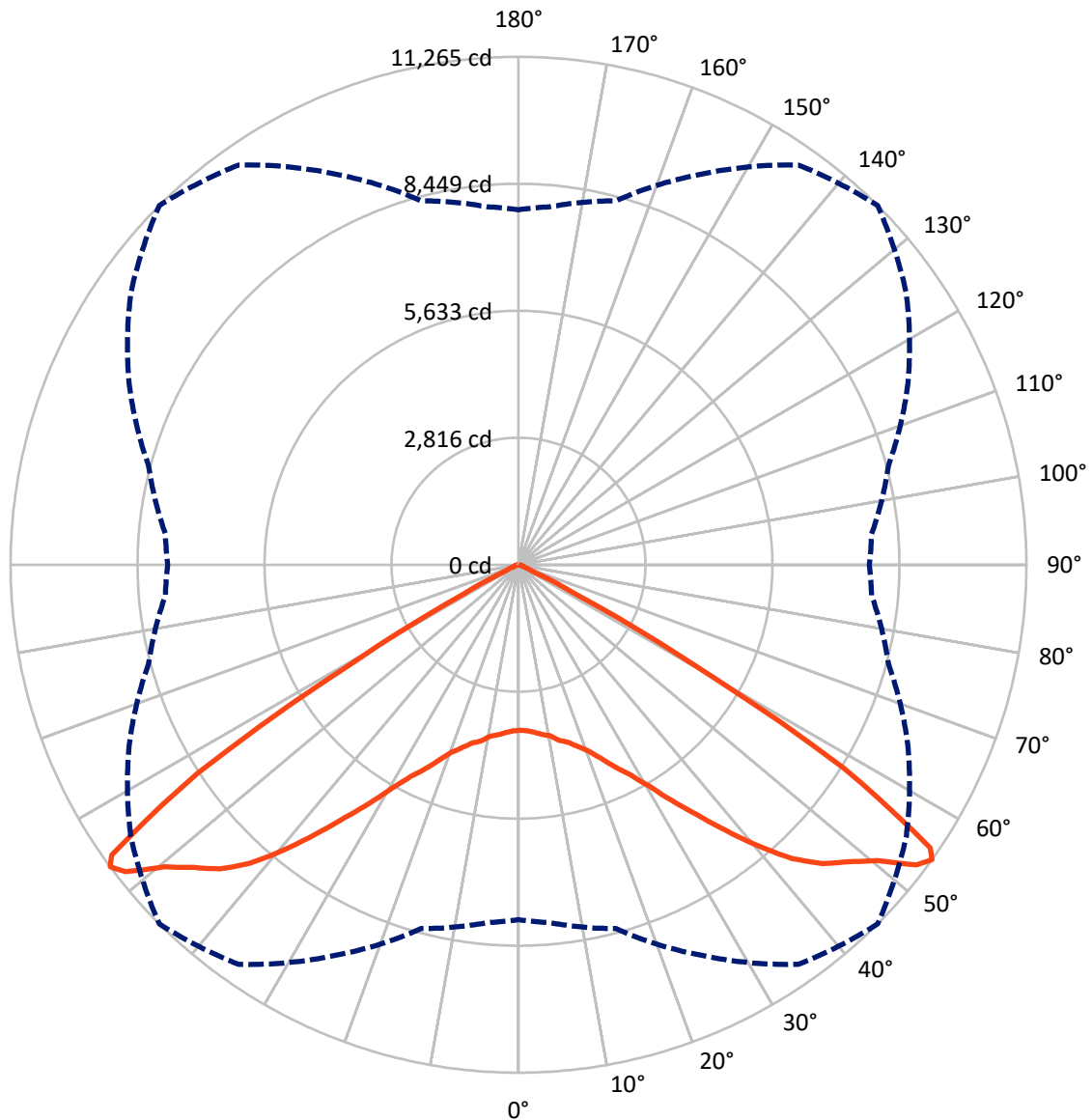
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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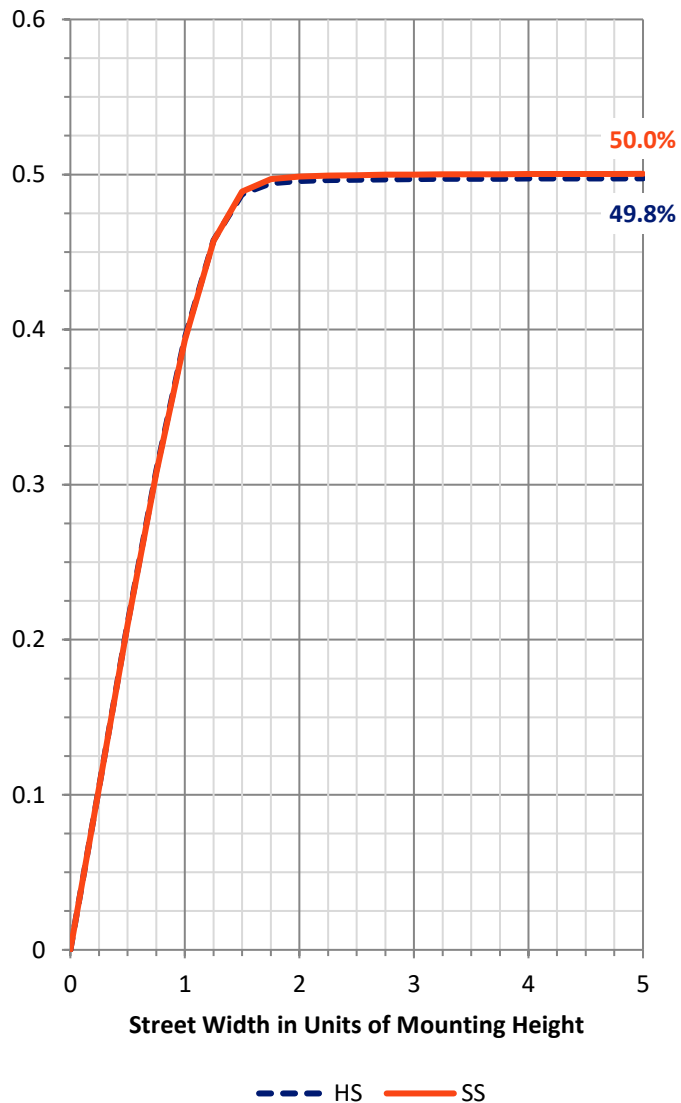
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11191.2	0.0	11191.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11191.2	0.0	11191.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22382.4	0.0	22382.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.2	1.6
10°-20°	1163.2	5.2
20°-30°	2279.9	10.2
30°-40°	4099.7	18.3
40°-50°	7018.0	31.4
50°-60°	6790.5	30.3
60°-70°	581.3	2.6
70°-80°	68.9	0.3
80°-90°	21.6	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°	22382.4	100.0
0°-180°	22382.4	100.0

**Coefficient of Utilization**

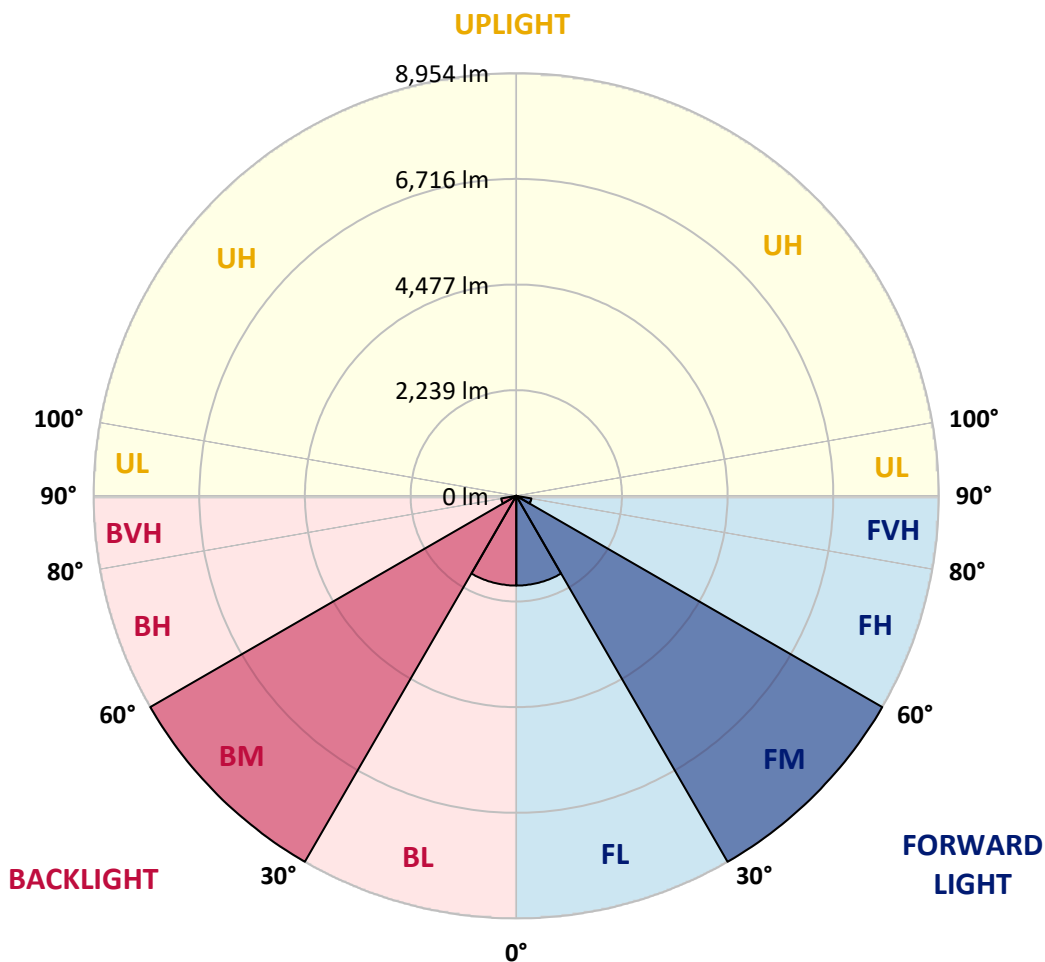


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1901.2	8.5			
FM (30°-60°)	8954.1	40.0			
FH (60°-80°)	325.1	1.5			G0/660
FVH (80°-90°)	10.8	0.0			G1/100
BL (0°-30°)	1901.2	8.5	B3/2500		
BM (30°-60°)	8954.1	40.0	B5		
BH (60°-80°)	325.1	1.5	B1/500		G0/660
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0
2.5°	3687.7	3709.0	3694.8	3705.4	3705.4	3687.7	3698.4	3655.8	3684.2	3662.9	3666.5
5°	3744.5	3740.9	3740.9	3744.5	3730.3	3737.4	3723.2	3709.0	3698.4	3684.2	3726.7
7.5°	3815.4	3815.4	3790.6	3797.7	3790.6	3801.2	3772.8	3744.5	3733.9	3723.2	3716.1
10°	3882.7	3875.7	3865.1	3896.9	3872.1	3857.9	3843.8	3826.0	3787.0	3772.8	3758.7
12.5°	3982.1	3978.5	3964.3	3996.3	3982.1	3996.3	3943.0	3896.9	3889.9	3843.8	3868.6
15°	4099.0	4131.0	4106.2	4106.2	4099.0	4081.4	4060.1	4038.8	3975.0	3957.2	3960.8
17.5°	4251.5	4240.9	4244.4	4244.4	4279.9	4233.8	4191.3	4138.1	4106.2	4095.5	4060.1
20°	4396.9	4411.1	4407.6	4432.4	4453.7	4404.0	4357.9	4350.8	4262.2	4276.4	4226.7
22.5°	4652.2	4641.6	4659.3	4677.1	4662.8	4655.8	4613.2	4560.1	4482.0	4446.5	4439.5
25°	4921.7	4904.0	4872.1	4914.6	4935.9	4967.8	4886.3	4857.9	4737.4	4684.1	4687.6
27.5°	5152.2	5177.0	5212.5	5230.2	5283.4	5272.7	5216.1	5123.8	5031.6	4971.3	4932.4
30°	5467.8	5482.0	5542.3	5567.1	5659.3	5684.1	5595.4	5489.0	5326.0	5247.9	5201.8
32.5°	5758.6	5857.8	5854.3	5978.4	6127.4	6230.1	6070.6	5907.4	5744.4	5652.2	5570.6
35°	6230.1	6212.5	6315.2	6446.4	6687.5	6804.6	6630.9	6442.9	6194.7	6045.8	5981.9
37.5°	6669.9	6677.0	6815.2	7024.5	7301.1	7481.9	7329.4	7020.9	6765.6	6574.1	6485.5
40°	7308.1	7322.3	7464.1	7701.7	8013.7	8208.7	8031.5	7719.5	7379.0	7230.1	7230.1
42.5°	8056.3	8116.6	8208.7	8414.5	8694.6	8910.9	8751.3	8506.6	8162.7	7971.2	7999.6
45°	8825.8	8854.1	8914.4	9219.4	9350.6	9457.0	9308.0	9194.6	8964.1	8730.0	8691.0
47.5°	9545.6	9556.2	9733.5	9829.3	9932.0	9843.4	9939.2	9790.2	9531.4	9304.5	9258.4
50°	9864.7	9847.0	10098.7	10389.5	10467.5	10311.5	10229.9	10130.7	9737.1	9464.0	9343.4
52.5°	8935.7	9038.5	9506.6	10315.0	10924.9	11056.1	10581.0	10123.5	9389.6	8857.7	8776.1
54°	7871.9	7967.6	8354.2	9552.7	10822.1	11265.4	10499.5	9527.9	8492.4	7861.2	7779.8
55°	6818.7	6712.4	7414.5	8637.8	10339.8	11080.9	10176.8	8758.4	7574.0	6996.1	6882.6
57.5°	3691.3	3709.0	4301.2	5457.2	7265.6	8496.0	7503.1	5925.2	4475.0	3826.0	3769.3
60°	1170.2	1198.5	1457.4	2205.5	3471.5	4145.2	3553.0	2379.3	1645.3	1319.1	1265.9
62.5°	365.2	379.4	414.9	617.0	950.3	1358.0	1063.8	638.2	475.2	436.1	443.2
65°	223.4	223.4	226.9	241.1	283.7	329.8	319.2	280.1	269.5	262.4	258.9
67.5°	145.4	141.9	148.9	159.5	166.7	170.2	180.8	191.5	188.0	180.8	180.8
70°	88.6	85.1	92.2	106.4	109.9	117.0	127.7	141.9	138.3	131.2	134.7
72.5°	49.6	49.6	53.2	63.8	74.4	81.6	92.2	102.9	106.4	102.9	102.9
75°	17.7	21.3	28.3	39.0	46.1	56.8	67.4	78.0	88.6	81.6	78.0
77.5°	7.1	7.1	14.2	24.8	35.5	46.1	63.8	74.4	81.6	74.4	67.4
80°	3.5	3.5	10.6	21.3	31.9	42.6	53.2	63.8	67.4	60.3	53.2
82.5°	3.5	3.5	10.6	21.3	31.9	39.0	56.8	63.8	70.9	63.8	53.2
85°	0.0	3.5	10.6	21.3	28.3	31.9	31.9	21.3	17.7	10.6	10.6
87.5°	0.0	0.0	3.5	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)