

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: P648468

Luminaire Tested: **GALN-SA6B-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27572.6 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

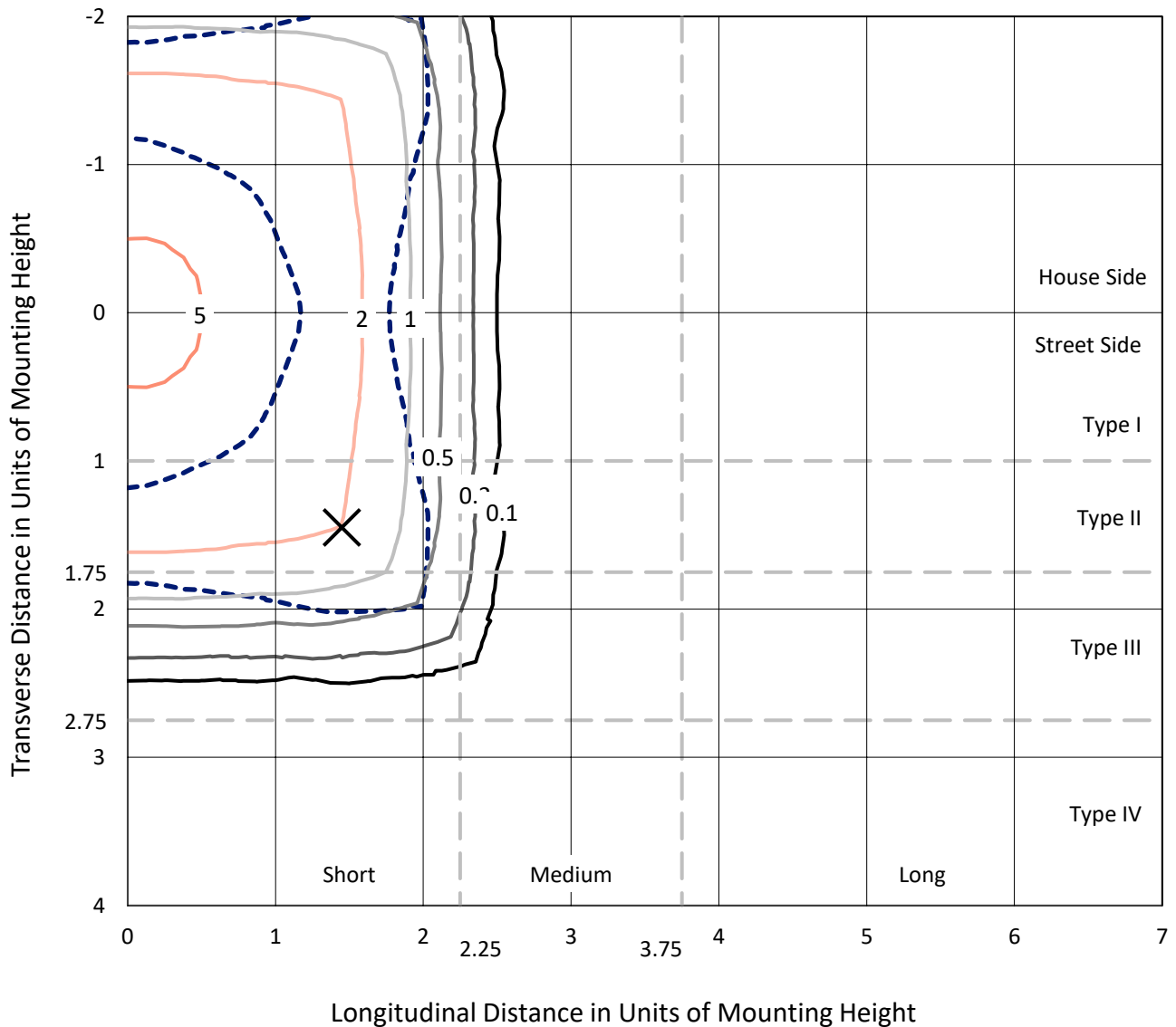
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

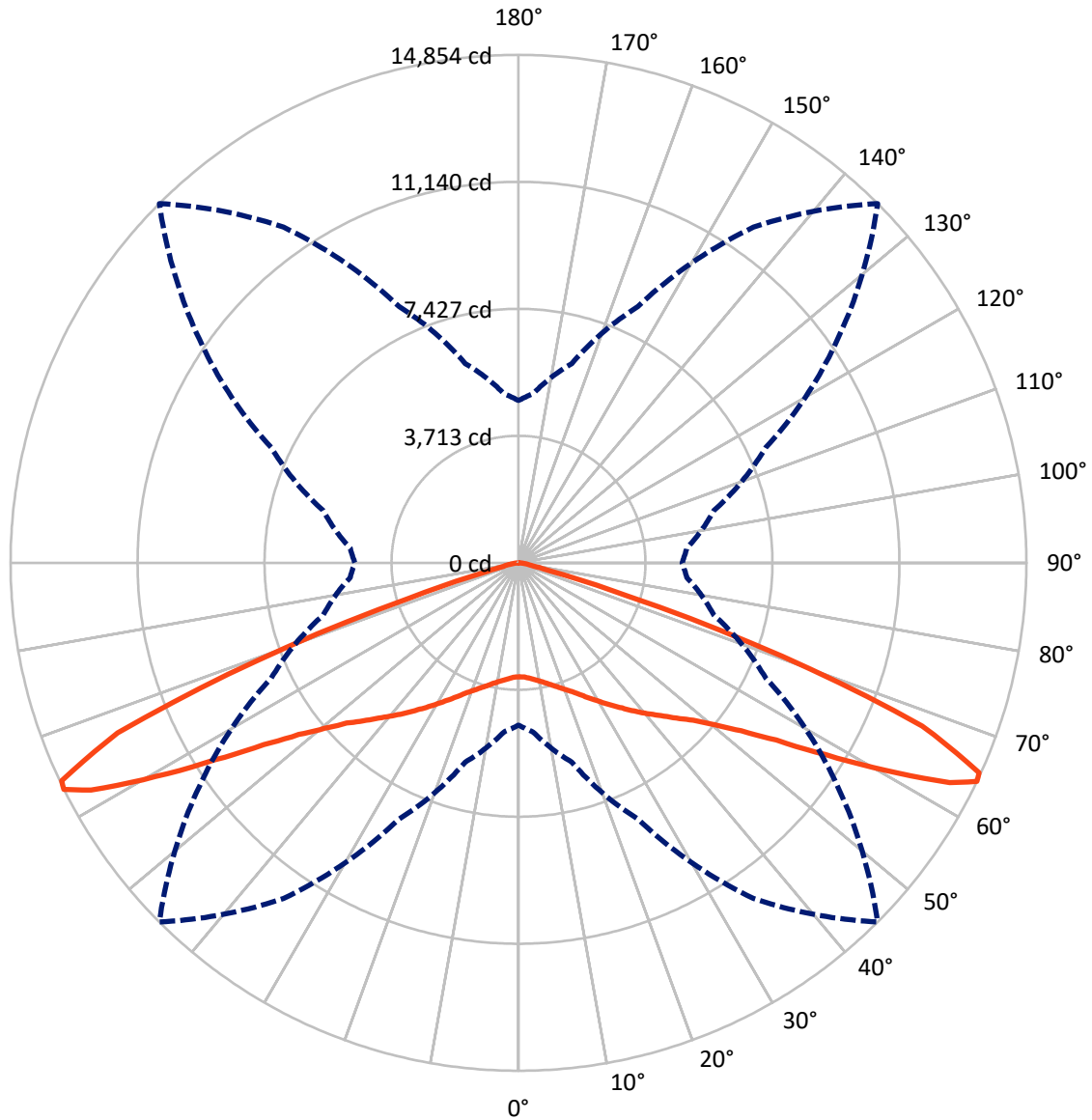
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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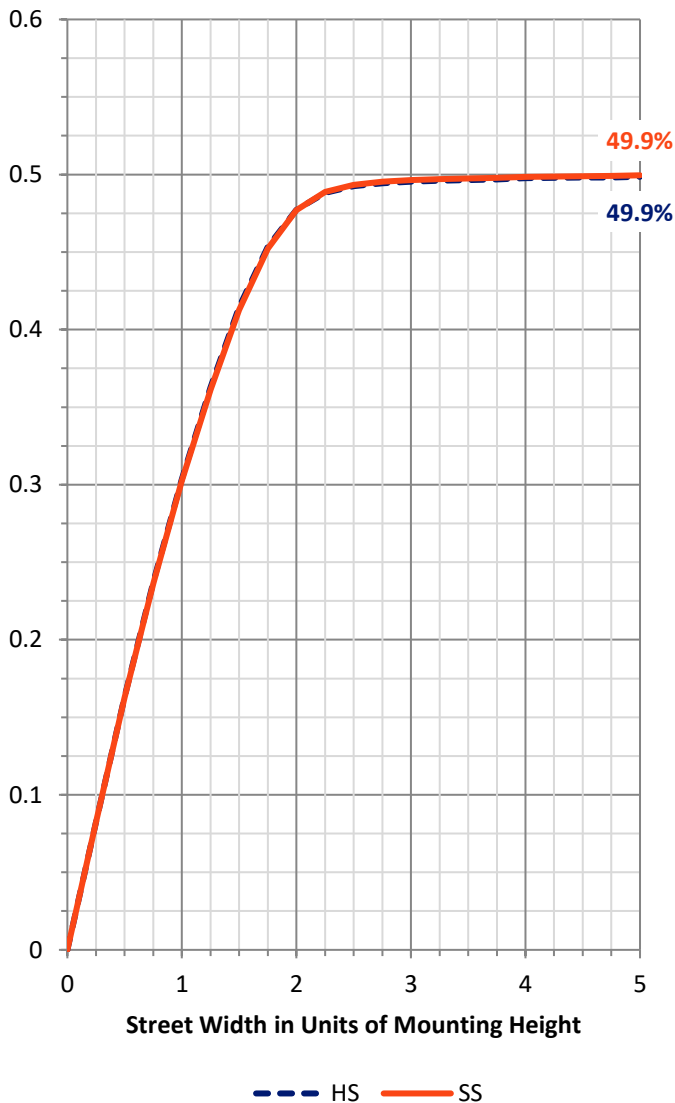
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13786.3	0.0	13786.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13786.3	0.0	13786.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27572.6	0.0	27572.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.4	1.2
10°-20°	1056.1	3.8
20°-30°	1995.7	7.2
30°-40°	3305.1	12.0
40°-50°	5159.8	18.7
50°-60°	7977.0	28.9
60°-70°	6878.5	24.9
70°-80°	779.5	2.8
80°-90°	93.4	0.3
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°	27572.6	100.0
0°-180°	27572.6	100.0



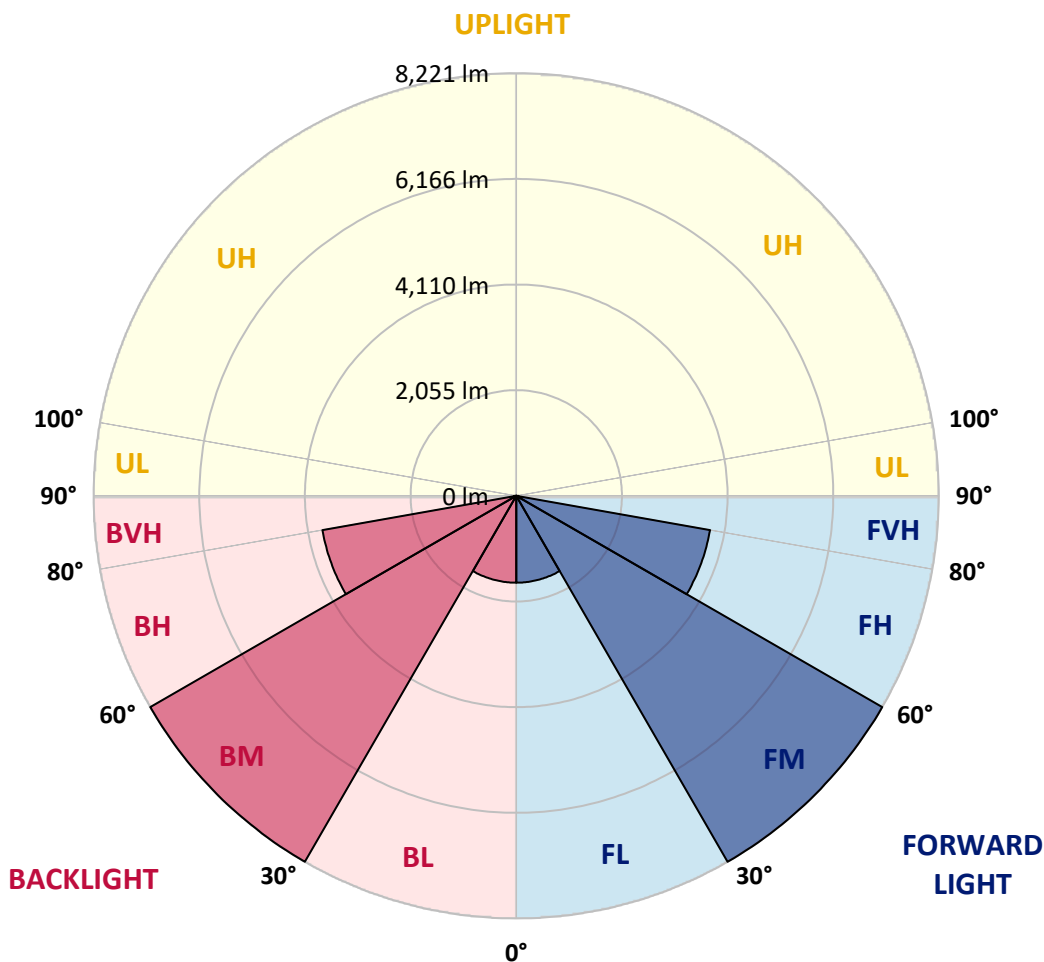
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1689.6	6.1			
FM (30°-60°)	8221.0	29.8			
FH (60°-80°)	3829.0	13.9			G2/5000
FVH (80°-90°)	46.7	0.2			G1/100
BL (0°-30°)	1689.6	6.1	B3/2500		
BM (30°-60°)	8221.0	29.8	B4/8500		
BH (60°-80°)	3829.0	13.9	B4/5000		G2/5000
BVH (80°-90°)	46.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6
2.5°	3345.8	3353.0	3347.2	3345.8	3344.3	3344.3	3344.3	3345.8	3351.6	3355.9	3353.0
5°	3388.1	3393.9	3391.0	3389.5	3388.1	3389.5	3386.6	3385.1	3389.5	3389.5	3388.1
7.5°	3440.7	3447.9	3445.0	3447.9	3449.4	3450.9	3443.6	3437.8	3436.3	3440.7	3437.8
10°	3512.2	3518.1	3519.5	3521.0	3523.9	3522.5	3513.7	3503.5	3502.0	3500.6	3499.1
12.5°	3592.6	3596.9	3598.4	3604.2	3608.6	3610.1	3599.8	3591.1	3576.5	3579.4	3573.5
15°	3683.1	3691.8	3690.4	3699.1	3710.9	3713.8	3703.5	3688.9	3675.8	3668.5	3664.1
17.5°	3794.1	3799.9	3797.0	3805.8	3820.4	3827.7	3818.9	3799.9	3786.8	3770.7	3761.9
20°	3925.5	3935.7	3938.6	3938.6	3951.8	3959.1	3946.0	3940.1	3919.7	3908.0	3900.7
22.5°	4074.5	4078.9	4087.7	4096.4	4109.5	4106.6	4102.2	4093.4	4074.5	4064.2	4052.6
25°	4242.5	4246.8	4268.7	4287.7	4292.1	4289.2	4283.3	4278.9	4261.4	4238.1	4229.3
27.5°	4438.1	4446.9	4476.1	4493.6	4493.6	4495.0	4483.4	4498.0	4460.0	4432.2	4429.4
30°	4683.4	4689.3	4714.1	4731.7	4722.9	4715.6	4712.6	4727.3	4686.4	4636.8	4625.0
32.5°	4925.9	4946.4	4968.2	5006.2	4975.6	4962.4	4959.4	4969.7	4923.0	4867.4	4851.4
35°	5185.8	5200.5	5241.3	5273.4	5245.7	5215.0	5228.2	5260.4	5204.8	5130.4	5127.4
37.5°	5473.6	5486.7	5539.3	5572.8	5552.4	5499.8	5521.7	5559.7	5504.2	5412.2	5393.2
40°	5772.9	5800.7	5866.4	5901.5	5867.9	5797.7	5838.7	5879.5	5829.9	5723.3	5680.9
42.5°	6108.8	6152.7	6247.6	6265.1	6200.8	6105.9	6177.5	6243.2	6208.1	6085.5	6069.3
45°	6501.6	6527.9	6644.8	6682.7	6593.6	6475.3	6564.4	6684.2	6657.9	6516.3	6485.6
47.5°	6941.2	6966.0	7087.2	7144.2	7031.8	6872.6	7033.2	7189.5	7173.5	7021.6	7006.9
50°	7461.1	7467.0	7634.9	7699.2	7586.7	7449.5	7592.6	7786.8	7722.6	7528.3	7525.4
52.5°	8030.7	8038.0	8249.8	8373.9	8311.1	8156.3	8325.6	8444.0	8280.4	8026.3	8007.3
55°	8524.3	8560.8	8849.9	9180.0	9266.2	9153.7	9204.9	9149.4	8746.3	8389.9	8334.4
57.5°	8725.8	8797.4	9237.0	9853.3	10414.1	10580.5	10186.2	9657.5	8931.8	8427.9	8373.9
60°	8233.6	8311.1	8993.1	10162.9	11594.0	12316.9	11208.5	9743.7	8509.7	7801.4	7716.7
62.5°	6593.6	6615.6	7618.8	9434.1	12281.9	14154.1	11639.3	9009.1	7281.5	6319.1	6285.5
64°	4744.8	4969.7	6032.9	8271.6	11981.0	14853.6	11391.0	7979.6	5914.5	4940.5	4782.8
65°	3548.7	3610.1	4863.1	7063.9	11450.9	14801.0	10909.1	6995.2	4898.1	3781.0	3605.7
67.5°	1340.7	1347.9	1794.8	3521.0	8151.9	12734.6	8325.6	3805.8	2063.5	1492.6	1438.4
70°	556.4	566.7	658.7	1184.4	3503.5	8176.7	4014.6	1372.8	755.0	611.9	603.1
72.5°	407.5	413.3	441.1	525.7	1077.8	3357.4	1320.2	582.7	442.5	395.7	391.4
75°	319.9	322.8	343.2	387.0	502.4	930.3	549.1	400.1	337.3	303.7	300.8
77.5°	243.9	251.2	265.8	295.0	337.3	441.1	363.6	299.3	260.0	232.2	227.9
80°	168.0	176.7	204.4	216.1	226.4	286.3	248.3	226.4	203.0	169.4	159.2
82.5°	103.7	109.5	137.3	147.5	143.1	160.7	159.2	162.1	144.5	105.2	97.9
85°	54.0	56.9	74.5	77.4	71.6	65.7	81.7	94.9	89.1	59.9	58.4
87.5°	11.7	13.2	16.1	14.6	16.1	16.1	20.4	30.7	32.1	20.4	18.9
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)