

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: P648415

Luminaire Tested: **GALN-SA5B-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18929 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

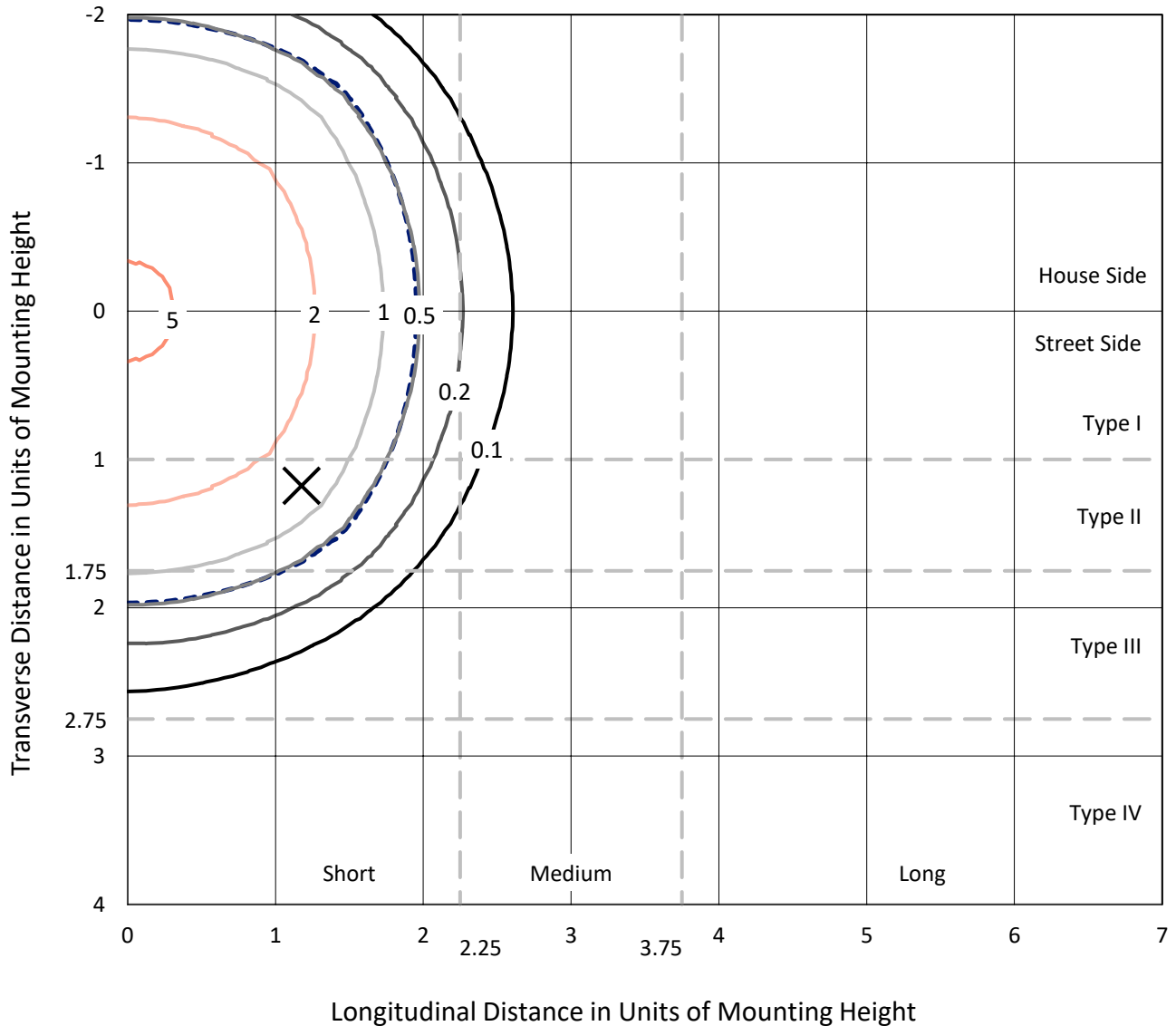
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

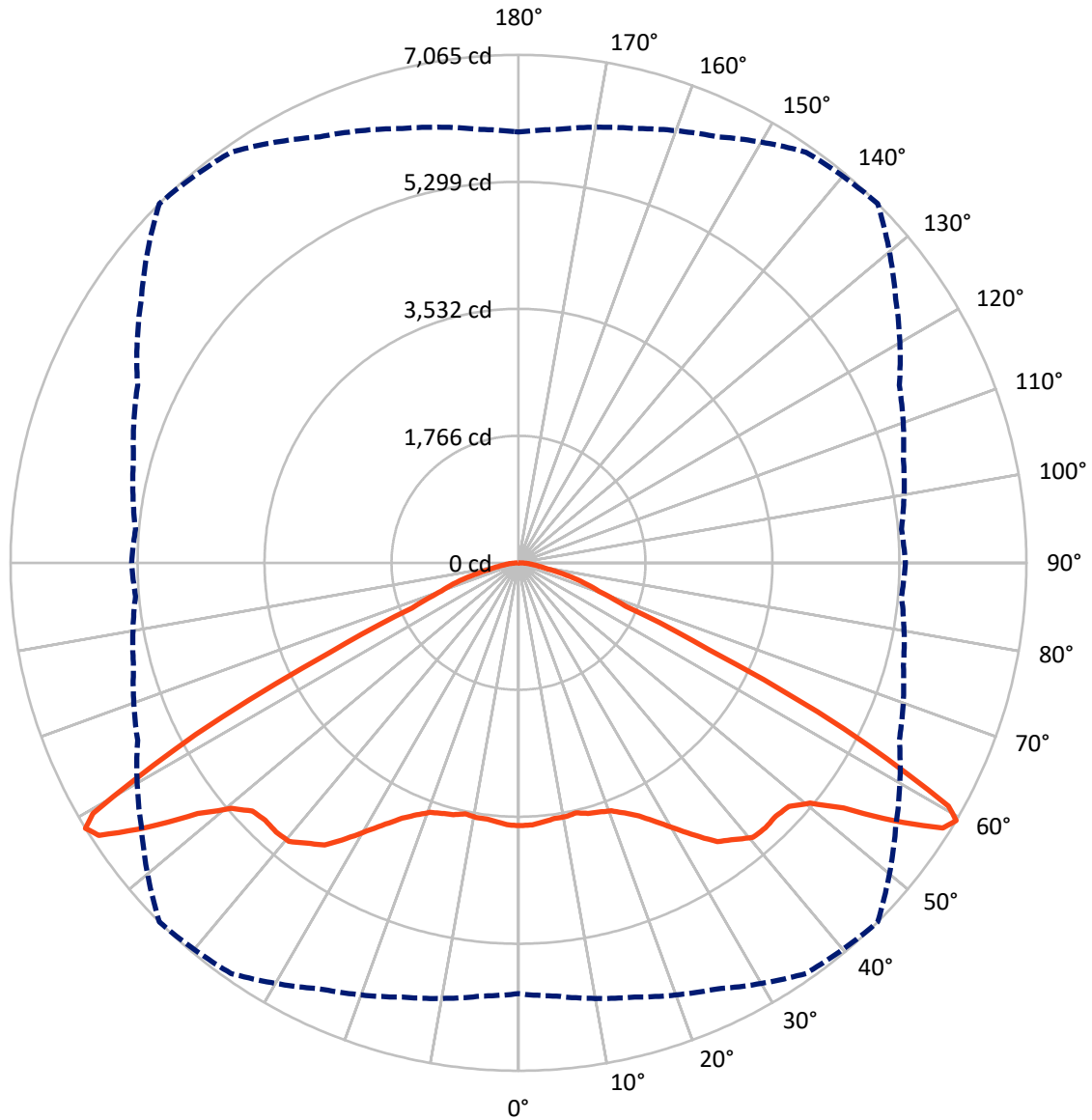
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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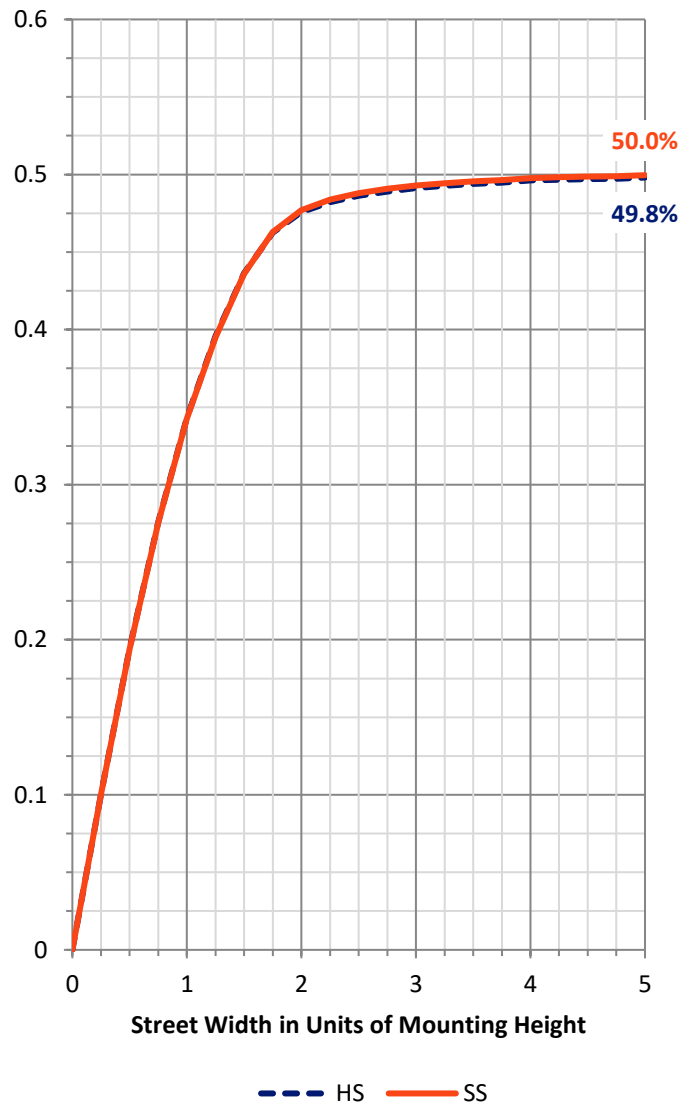
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9464.5	0.0	9464.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9464.5	0.0	9464.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18929.0	0.0	18929.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.7	1.8
10°-20°	1025.0	5.4
20°-30°	1789.7	9.5
30°-40°	2858.4	15.1
40°-50°	3893.7	20.6
50°-60°	5265.4	27.8
60°-70°	2887.5	15.3
70°-80°	738.7	3.9
80°-90°	126.0	0.7
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°	18929.0	100.0
0°-180°	18929.0	100.0

**Coefficient of Utilization**



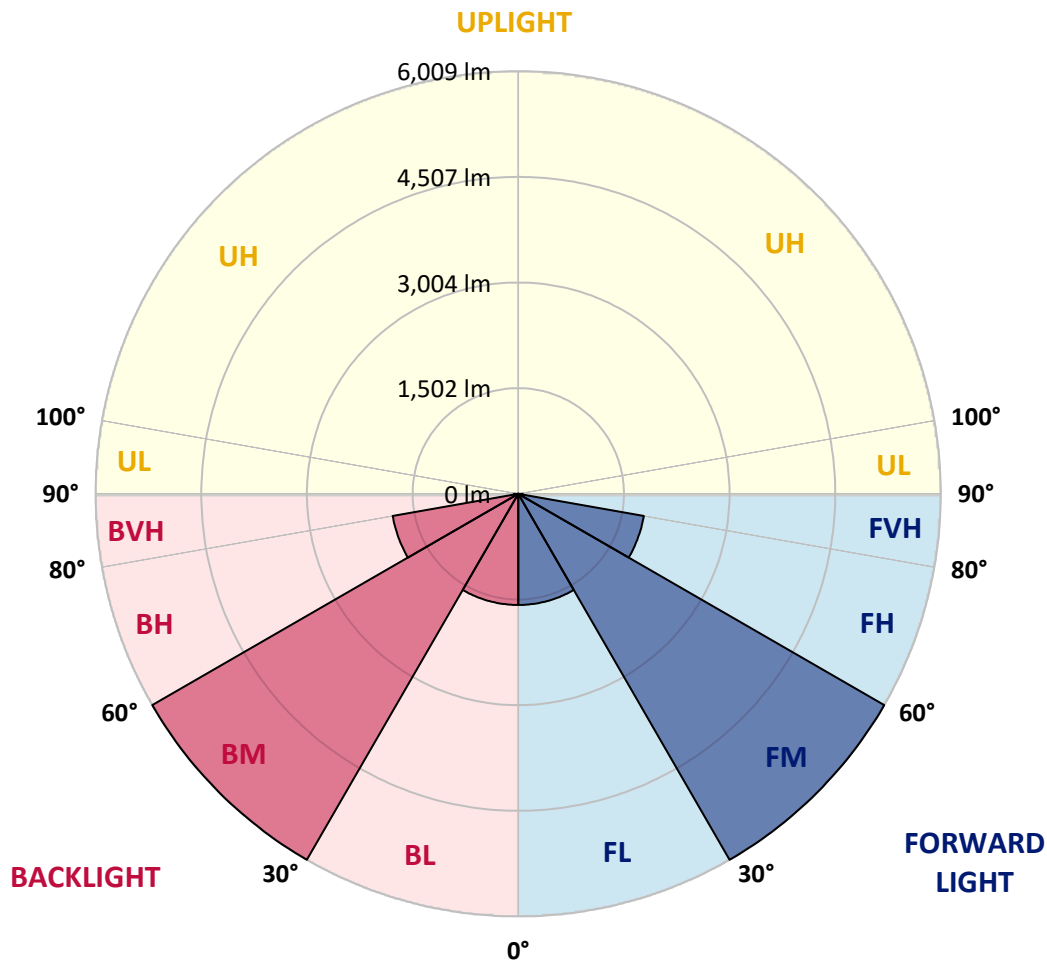
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.7	8.3			
FM (30°-60°)	6008.7	31.7			
FH (60°-80°)	1813.1	9.6			G2/5000
FVH (80°-90°)	63.0	0.3			G1/100
BL (0°-30°)	1579.7	8.3	B3/2500		
BM (30°-60°)	6008.7	31.7	B4/8500		
BH (60°-80°)	1813.1	9.6	B3/2500		G2/5000
BVH (80°-90°)	63.0	0.3			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°	3656.2	3656.2	3656.2	3656.2	3656.2	3656.2	3656.2	3656.2	3656.2	3656.2	3656.2
2.5°	3634.4	3661.1	3641.7	3658.6	3656.2	3648.9	3636.8	3629.5	3619.8	3634.4	3610.1
5°	3619.8	3641.7	3663.4	3634.4	3634.4	3619.8	3612.5	3598.0	3598.0	3595.5	3593.1
7.5°	3644.1	3622.2	3612.5	3617.4	3622.2	3590.7	3612.5	3583.4	3559.1	3576.1	3595.5
10°	3622.2	3631.9	3595.5	3612.5	3585.8	3590.7	3576.1	3595.5	3568.8	3568.8	3568.8
12.5°	3644.1	3617.4	3629.5	3617.4	3610.1	3568.8	3588.3	3566.4	3564.0	3588.3	3566.4
15°	3687.7	3644.1	3634.4	3610.1	3617.4	3617.4	3598.0	3600.4	3573.7	3588.3	3593.1
17.5°	3673.1	3648.9	3641.7	3612.5	3636.8	3644.1	3607.7	3583.4	3600.4	3598.0	3595.5
20°	3685.3	3695.0	3687.7	3692.5	3702.3	3682.8	3648.9	3615.0	3593.1	3624.7	3622.2
22.5°	3762.9	3753.2	3748.4	3743.5	3760.5	3779.9	3733.8	3680.4	3680.4	3702.3	3712.0
25°	3826.0	3823.6	3821.2	3843.0	3901.2	3901.2	3843.0	3775.1	3758.1	3772.7	3760.5
27.5°	3918.2	3944.9	3935.2	3974.0	4058.9	4078.3	4000.7	3920.6	3874.5	3857.5	3879.4
30°	4129.3	4097.8	4105.0	4146.3	4221.5	4284.6	4165.6	4080.8	4017.7	4015.2	4024.9
32.5°	4270.0	4294.3	4316.1	4354.9	4473.8	4522.3	4379.2	4240.9	4202.0	4180.2	4187.5
35°	4551.4	4529.6	4524.7	4563.6	4682.4	4762.5	4583.0	4461.7	4410.7	4459.3	4459.3
37.5°	4818.3	4757.7	4711.5	4762.5	4871.7	4881.4	4728.5	4663.0	4636.4	4692.1	4689.7
40°	4944.5	4939.6	4832.8	4862.0	5007.5	5022.1	4879.0	4801.4	4796.5	4869.2	4942.1
42.5°	5075.5	5029.4	4922.6	4942.1	5031.8	5036.6	4900.8	4879.0	4932.4	5002.7	5007.5
45°	5097.3	5058.5	4990.5	4942.1	5007.5	5022.1	4942.1	4956.6	4961.5	5046.4	5046.4
47.5°	5140.9	5136.1	5097.3	5060.9	5073.1	5060.9	5009.9	5031.8	5104.6	5145.8	5126.5
50°	5262.3	5211.3	5250.2	5218.6	5221.0	5255.0	5208.9	5230.8	5216.2	5179.8	5155.5
52.5°	5529.2	5504.9	5538.9	5560.7	5585.0	5662.6	5609.3	5492.7	5383.6	5286.6	5284.2
55°	5919.8	5936.8	6002.2	6113.8	6208.5	6332.2	6075.1	5796.0	5621.3	5468.5	5478.2
57.5°	6288.5	6276.4	6366.2	6620.9	6897.5	6960.6	6455.9	6058.1	5774.2	5677.1	5635.9
59°	5992.5	6050.8	6254.6	6538.4	6972.7	7064.9	6405.0	5844.5	5543.7	5347.2	5381.2
60°	5526.7	5548.6	5730.5	6126.0	6713.1	6870.8	6062.9	5514.6	5114.3	5000.2	5051.2
62.5°	3906.1	3889.1	4020.1	4342.8	4869.2	5082.8	4507.7	4122.0	3869.7	3743.5	3772.7
65°	2076.8	2154.4	2207.7	2409.1	2688.1	2913.8	2676.1	2508.7	2367.9	2263.6	2261.1
67.5°	1402.3	1392.6	1404.7	1450.8	1545.5	1608.5	1603.7	1518.8	1506.6	1487.2	1509.1
70°	1181.5	1176.7	1154.8	1154.8	1174.3	1188.8	1205.8	1215.5	1234.9	1259.1	1256.7
72.5°	958.3	946.2	931.6	924.3	948.6	955.9	977.7	987.4	1004.4	1002.0	1023.9
75°	633.2	633.2	650.2	669.6	676.9	691.5	693.9	723.0	723.0	727.9	708.5
77.5°	354.2	344.5	356.7	376.1	393.1	419.7	446.4	468.2	480.4	475.5	475.5
80°	206.2	206.2	218.4	240.2	262.0	286.3	305.7	322.7	334.8	330.0	320.2
82.5°	128.6	128.6	140.7	162.6	179.5	194.1	220.8	242.7	257.1	252.3	240.2
85°	65.5	65.5	80.1	94.6	116.4	126.1	123.7	114.0	111.6	99.4	99.4
87.5°	17.0	17.0	24.3	26.7	21.8	24.3	24.3	24.3	24.3	24.3	26.7
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)