

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: P648412

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20097.3 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

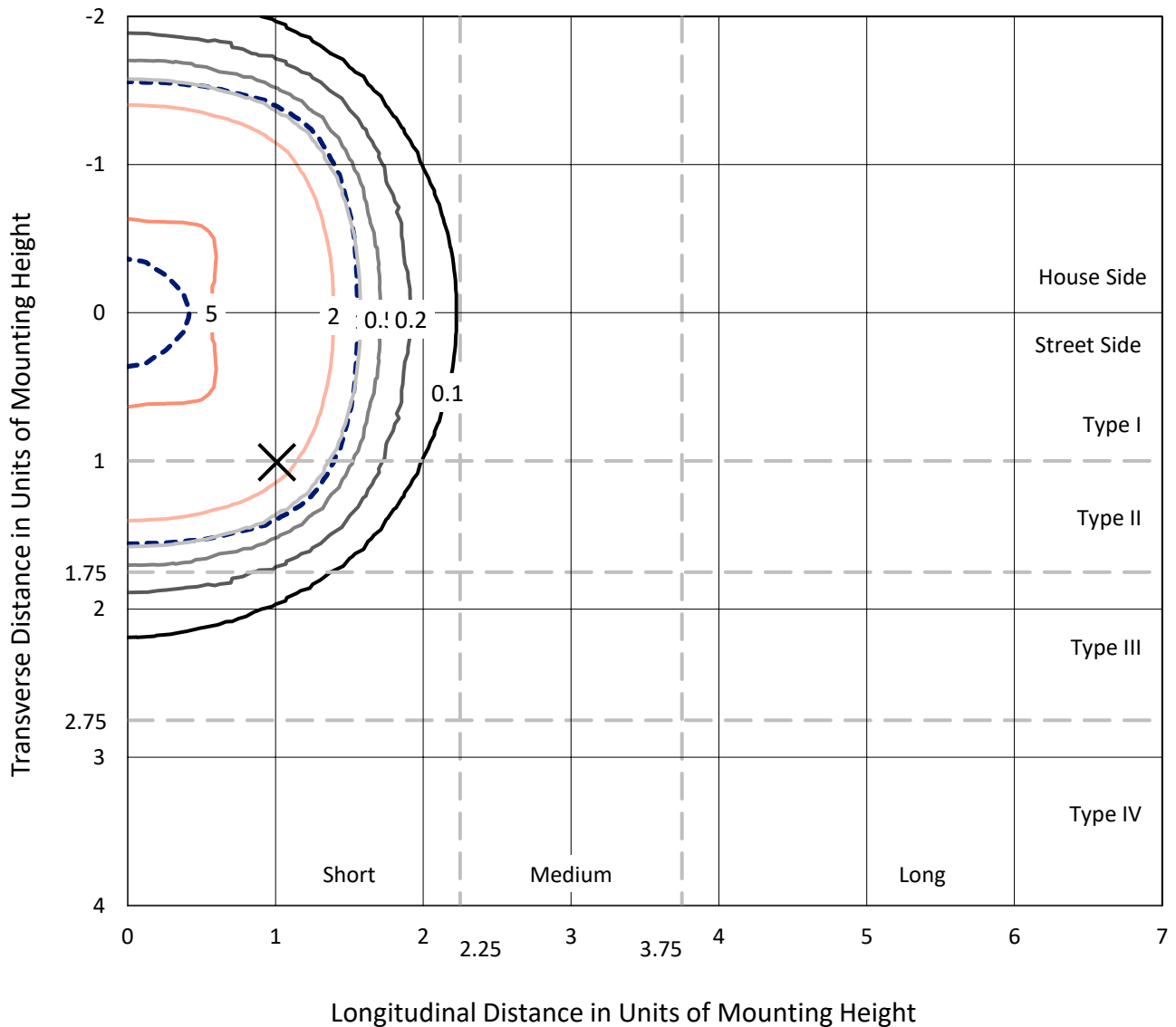
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

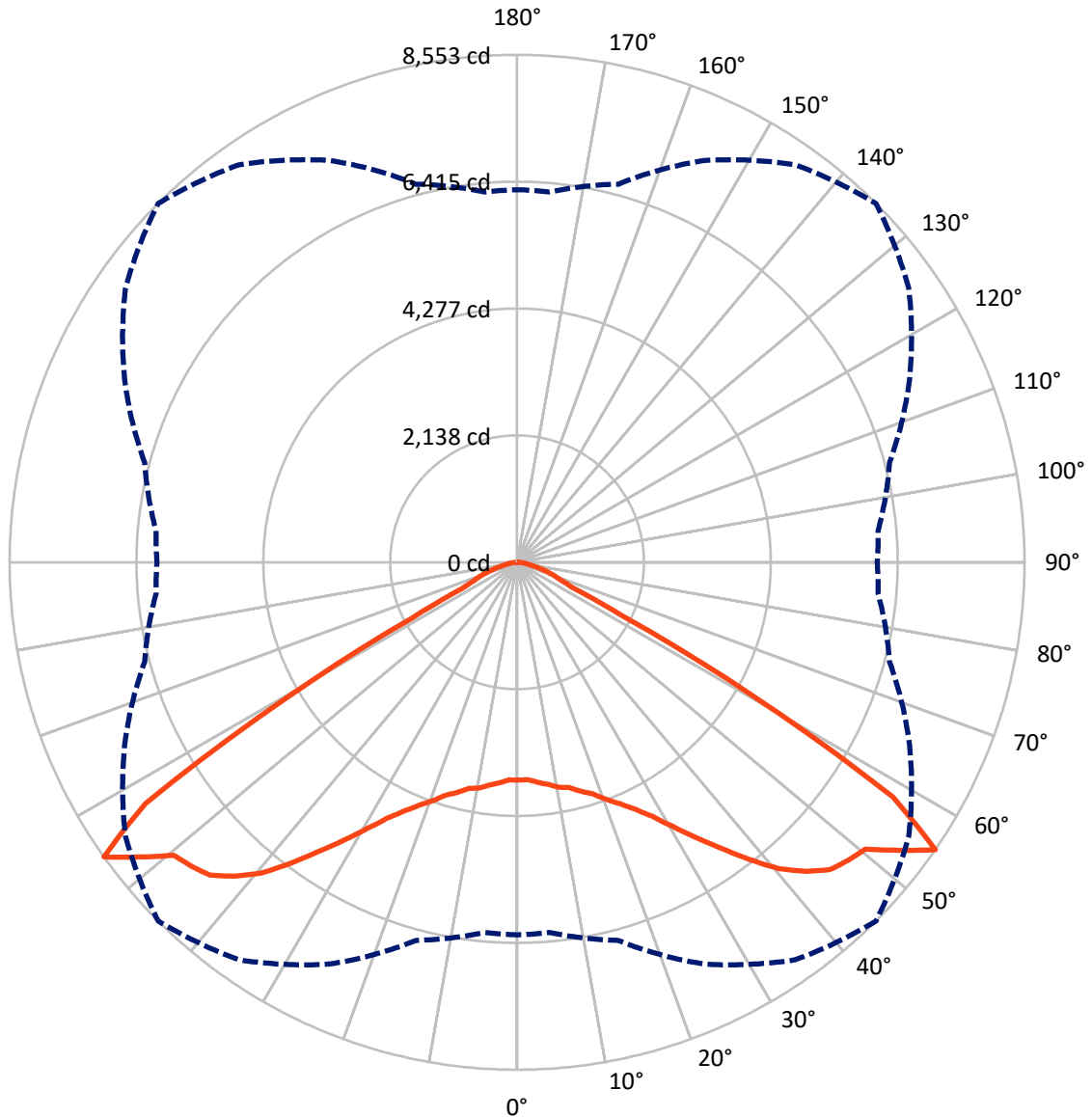
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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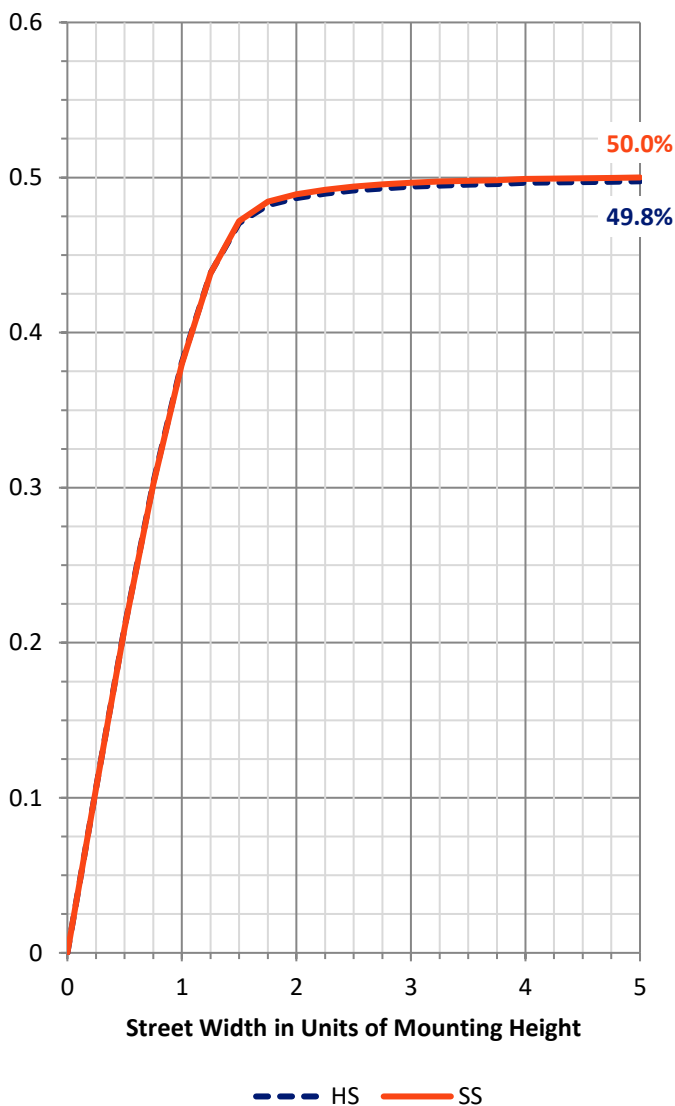
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10048.6	0.0	10048.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10048.6	0.0	10048.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	20097.3	0.0	20097.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	1.8
10°-20°	1135.8	5.7
20°-30°	2117.9	10.5
30°-40°	3546.1	17.6
40°-50°	5518.1	27.5
50°-60°	5729.5	28.5
60°-70°	1215.0	6.0
70°-80°	400.1	2.0
80°-90°	76.2	0.4
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°	20097.3	100.0
0°-180°	20097.3	100.0

Coefficient of Utilization



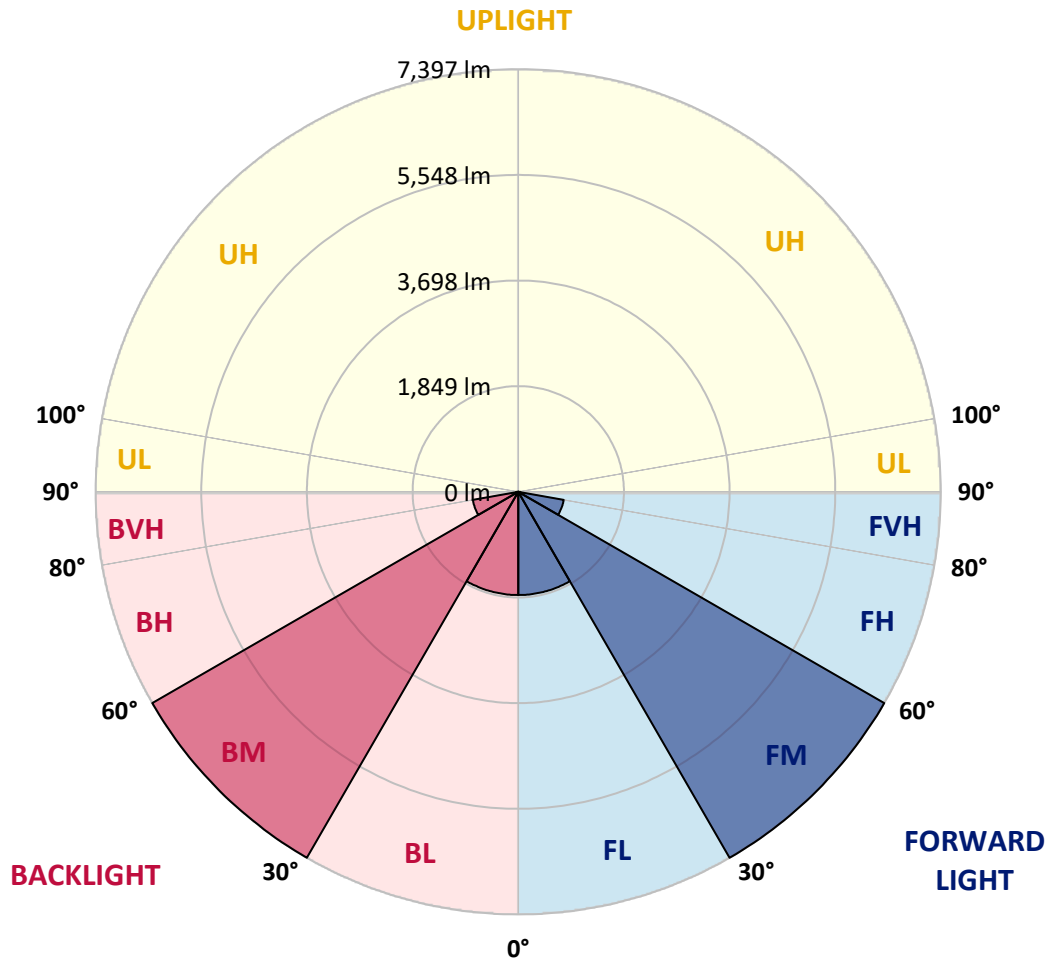
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.1	9.0			
FM (30°-60°)	7396.8	36.8			
FH (60°-80°)	807.6	4.0			G1/1800
FVH (80°-90°)	38.1	0.2			G1/100
BL (0°-30°)	1806.1	9.0	B3/2500		
BM (30°-60°)	7396.8	36.8	B4/8500		
BH (60°-80°)	807.6	4.0	B2/1000		G1/1800
BVH (80°-90°)	38.1	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3669.5	3669.5	3669.5	3669.5	3669.5	3669.5	3669.5	3669.5	3669.5	3669.5	3669.5
2.5°	3713.1	3696.2	3667.0	3688.9	3705.9	3669.5	3684.0	3691.3	3686.4	3667.0	3674.3
5°	3766.6	3756.9	3732.6	3749.6	3727.7	3727.7	3713.1	3693.7	3722.9	3718.0	3730.1
7.5°	3766.6	3754.5	3803.0	3771.5	3781.2	3781.2	3756.9	3737.5	3752.1	3730.1	3718.0
10°	3841.9	3858.9	3837.0	3844.3	3839.4	3856.4	3820.0	3807.9	3795.7	3788.5	3773.9
12.5°	3931.8	3919.6	3926.9	3922.0	3939.0	3895.3	3873.4	3846.7	3868.6	3837.0	3858.9
15°	4004.6	3997.3	4004.6	4024.0	4007.0	4004.6	3965.7	3939.0	3905.1	3912.3	3878.3
17.5°	4104.2	4096.9	4099.3	4116.3	4113.9	4101.7	4072.6	4021.6	4009.4	3990.0	3968.2
20°	4252.3	4240.2	4235.3	4242.6	4254.7	4264.5	4206.1	4186.7	4145.4	4113.9	4077.5
22.5°	4378.6	4373.8	4393.2	4361.5	4388.3	4417.5	4361.5	4351.8	4249.9	4232.9	4194.0
25°	4553.5	4546.2	4534.0	4580.2	4611.7	4609.3	4555.9	4502.4	4424.7	4405.3	4405.3
27.5°	4738.0	4696.7	4759.9	4772.0	4827.8	4844.9	4798.7	4721.0	4648.1	4606.9	4616.6
30°	4968.7	4929.8	4944.4	5031.9	5104.7	5167.9	5051.3	4937.1	4835.1	4762.3	4750.1
32.5°	5199.4	5160.6	5204.3	5289.2	5435.0	5529.7	5415.5	5216.4	5097.4	4990.5	5012.5
35°	5386.4	5415.5	5486.0	5614.7	5765.2	5918.2	5736.1	5583.1	5413.1	5294.1	5311.1
37.5°	5687.6	5777.4	5833.3	5981.4	6195.1	6352.9	6163.5	5964.4	5782.2	5626.8	5573.4
40°	6080.9	6141.7	6204.8	6379.6	6632.2	6790.1	6610.4	6350.5	6170.8	6010.5	6003.3
42.5°	6513.2	6571.5	6637.1	6850.8	7001.4	7120.4	6955.2	6816.8	6617.7	6491.4	6484.1
45°	7015.9	6974.7	7047.5	7188.3	7314.6	7392.4	7285.5	7217.5	7074.2	6957.7	6945.5
47.5°	7351.0	7314.6	7445.8	7572.1	7591.5	7506.5	7528.3	7591.5	7440.9	7249.1	7309.8
50°	7545.4	7545.4	7632.8	7749.4	7712.9	7603.6	7776.1	7780.9	7630.3	7460.3	7460.3
52.5°	7207.7	7283.1	7530.7	7912.1	8033.5	8065.1	8026.2	7861.1	7467.6	7120.4	7103.4
55°	6280.1	6263.1	6598.3	7472.5	8179.2	8553.2	8057.8	7297.6	6498.7	6107.6	6068.8
57.5°	4084.8	4104.2	4604.4	5495.7	6770.7	7467.6	6632.2	5563.7	4604.4	4065.3	4116.3
60°	1838.4	1903.9	2207.5	2872.9	3968.2	4536.5	3977.9	3018.6	2316.8	2010.8	2037.5
62.5°	1056.4	1068.6	1080.7	1282.2	1690.3	1998.7	1755.8	1355.1	1194.9	1141.4	1141.4
65°	891.3	884.0	886.4	903.4	947.1	1010.2	983.5	947.1	952.0	947.1	939.8
67.5°	757.7	767.4	760.1	772.3	774.7	784.4	801.4	816.0	818.4	823.2	818.4
70°	621.7	624.1	629.0	638.7	641.1	648.4	672.7	684.8	692.1	692.1	701.8
72.5°	476.0	473.6	478.4	488.1	500.3	502.7	524.5	541.5	551.2	539.1	541.5
75°	313.3	315.7	323.0	330.3	347.3	364.3	371.5	388.5	391.0	395.8	383.7
77.5°	187.0	191.8	199.1	213.7	228.2	242.9	259.9	272.0	276.9	272.0	257.5
80°	121.4	121.4	131.2	143.3	160.3	172.4	182.1	191.8	199.1	191.8	187.0
82.5°	75.2	75.2	87.5	102.0	114.2	121.4	136.0	148.1	155.4	150.6	143.3
85°	38.8	41.3	51.0	63.1	72.8	77.7	75.2	68.0	60.7	58.3	53.4
87.5°	12.1	12.1	14.6	14.6	12.1	12.1	14.6	12.1	14.6	14.6	14.6
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)