

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: P646927

Luminaire Tested: **GALN-SA5C-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646927
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-SA5C-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA 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: 24830.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

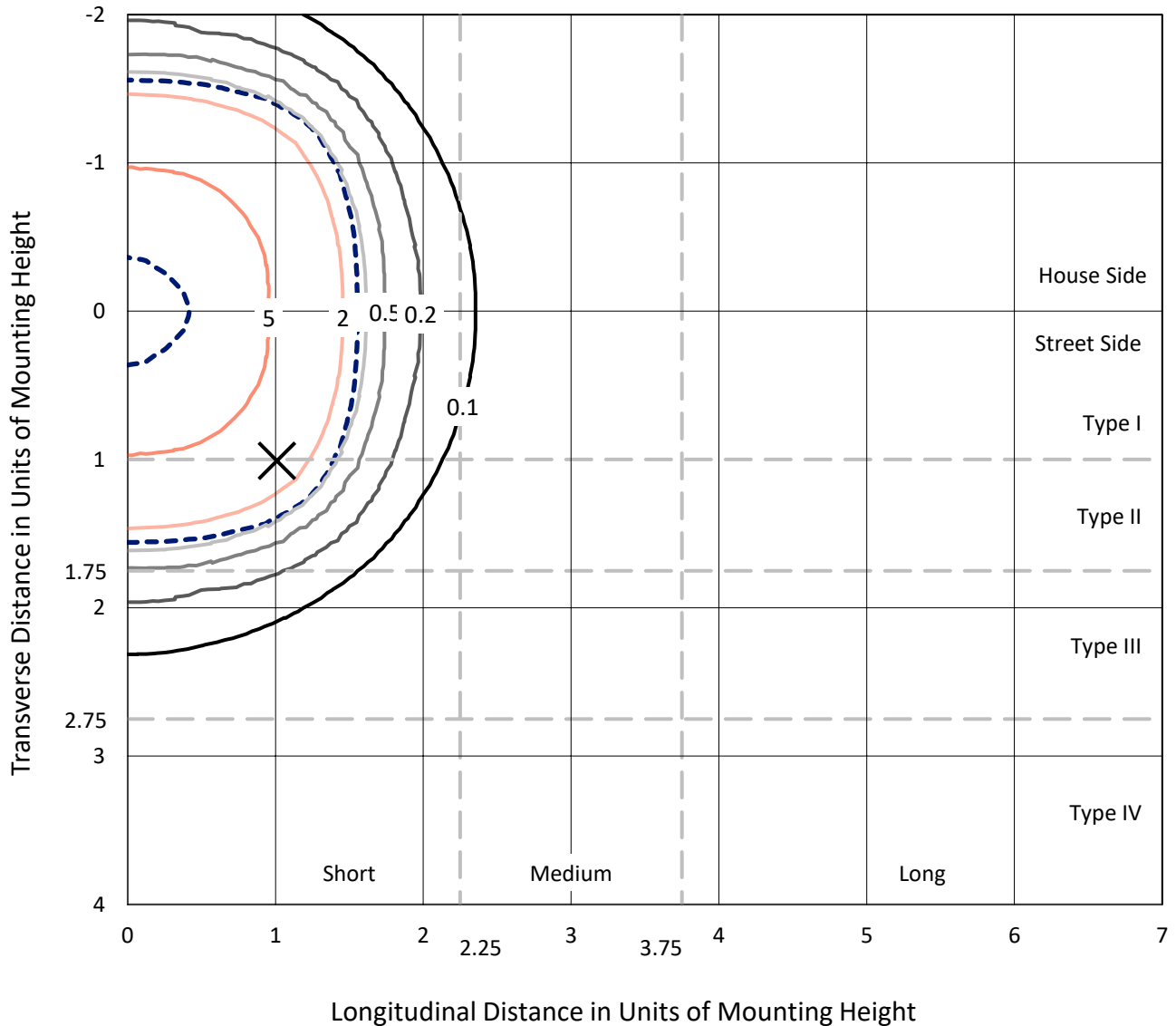
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

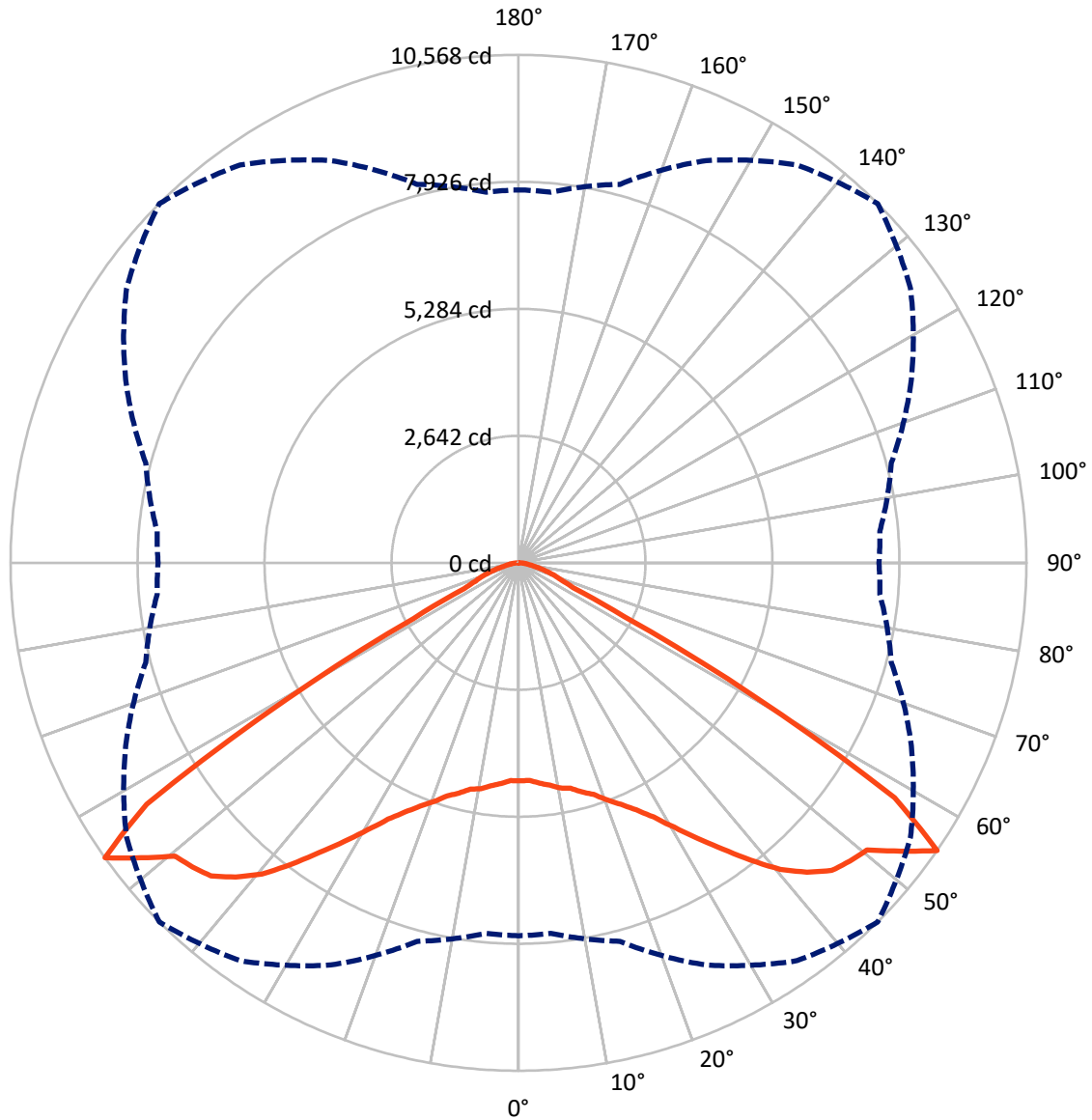
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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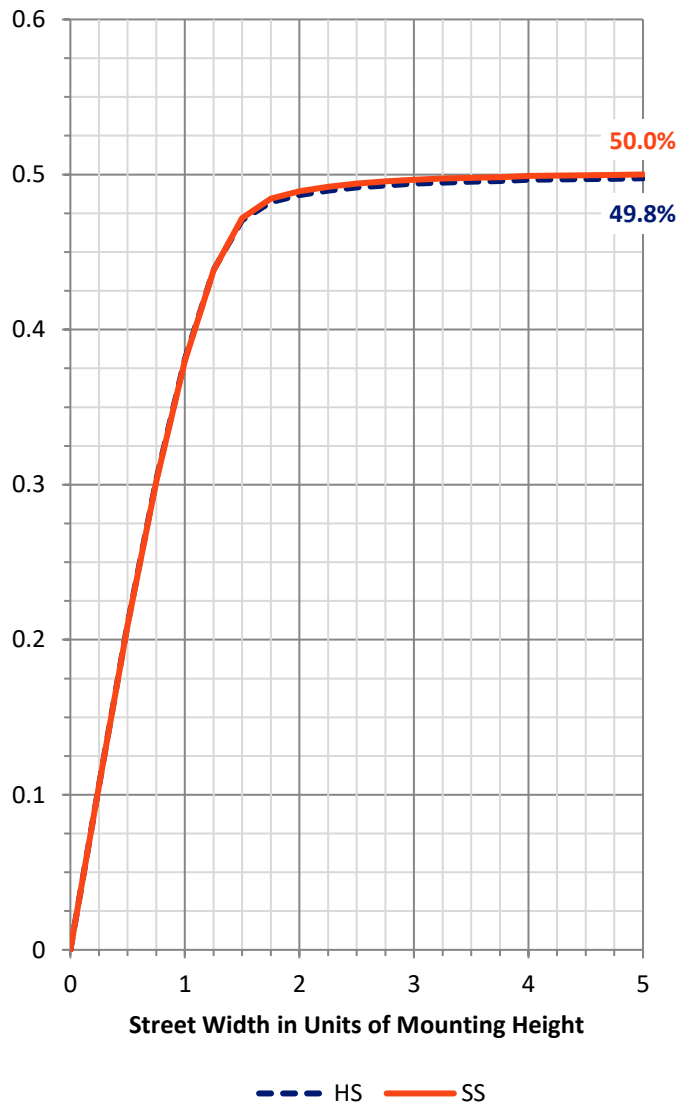
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12415.2	0.0	12415.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12415.2	0.0	12415.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	24830.5	0.0	24830.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.9	1.8
10°-20°	1403.3	5.7
20°-30°	2616.8	10.5
30°-40°	4381.3	17.6
40°-50°	6817.6	27.5
50°-60°	7078.9	28.5
60°-70°	1501.2	6.0
70°-80°	494.4	2.0
80°-90°	94.1	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°	24830.5	100.0
0°-180°	24830.5	100.0

Coefficient of Utilization

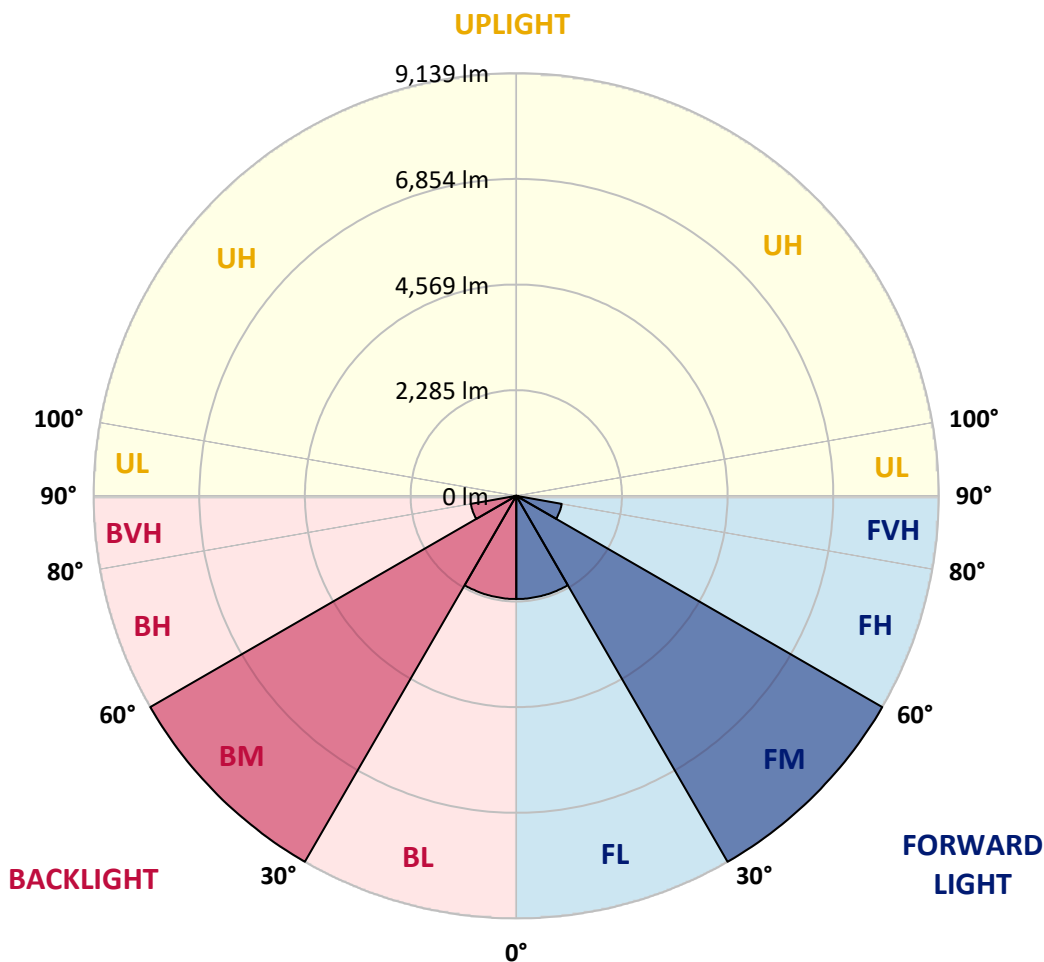


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2231.5	9.0			
FM (30°-60°)	9138.9	36.8			
FH (60°-80°)	997.8	4.0			G1/1800
FVH (80°-90°)	47.1	0.2			G1/100
BL (0°-30°)	2231.5	9.0	B3/2500		
BM (30°-60°)	9138.9	36.8	B5		
BH (60°-80°)	997.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	47.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6
2.5°	4587.7	4566.7	4530.7	4557.7	4578.7	4533.6	4551.7	4560.7	4554.7	4530.7	4539.7
5°	4653.7	4641.7	4611.7	4632.7	4605.7	4605.7	4587.7	4563.7	4599.7	4593.7	4608.7
7.5°	4653.7	4638.7	4698.7	4659.7	4671.7	4671.7	4641.7	4617.7	4635.7	4608.7	4593.7
10°	4746.7	4767.7	4740.7	4749.7	4743.7	4764.7	4719.7	4704.7	4689.7	4680.7	4662.7
12.5°	4857.7	4842.7	4851.7	4845.8	4866.7	4812.7	4785.7	4752.7	4779.7	4740.7	4767.7
15°	4947.8	4938.8	4947.8	4971.7	4950.8	4947.8	4899.7	4866.7	4824.7	4833.7	4791.7
17.5°	5070.8	5061.8	5064.8	5085.7	5082.8	5067.7	5031.7	4968.8	4953.7	4929.8	4902.8
20°	5253.8	5238.8	5232.8	5241.8	5256.7	5268.8	5196.8	5172.8	5121.8	5082.8	5037.7
22.5°	5409.8	5403.8	5427.8	5388.8	5421.8	5457.8	5388.8	5376.8	5250.8	5229.8	5181.7
25°	5625.9	5616.9	5601.8	5658.8	5697.9	5694.8	5628.8	5562.8	5466.8	5442.8	5442.8
27.5°	5853.9	5802.9	5880.9	5895.9	5964.9	5985.9	5928.9	5832.9	5742.8	5691.9	5703.8
30°	6139.0	6090.9	6108.9	6216.9	6306.9	6385.0	6240.9	6099.9	5973.9	5883.9	5868.9
32.5°	6424.0	6376.0	6430.0	6535.0	6715.0	6832.0	6691.0	6445.0	6297.9	6165.9	6192.9
35°	6655.0	6691.0	6778.0	6937.1	7123.0	7312.1	7087.1	6898.0	6688.0	6540.9	6562.0
37.5°	7027.0	7138.1	7207.0	7390.1	7654.1	7849.2	7615.1	7369.1	7144.1	6952.0	6886.0
40°	7513.1	7588.1	7666.1	7882.1	8194.3	8389.2	8167.2	7846.2	7624.1	7426.1	7417.1
42.5°	8047.2	8119.2	8200.2	8464.2	8650.3	8797.3	8593.3	8422.3	8176.2	8020.2	8011.2
45°	8668.3	8617.3	8707.3	8881.3	9037.4	9133.4	9001.4	8917.4	8740.3	8596.3	8581.3
47.5°	9082.3	9037.4	9199.4	9355.4	9379.4	9274.4	9301.4	9379.4	9193.4	8956.3	9031.4
50°	9322.4	9322.4	9430.4	9574.4	9529.4	9394.4	9607.4	9613.4	9427.4	9217.4	9217.4
52.5°	8905.3	8998.3	9304.4	9775.4	9925.5	9964.5	9916.5	9712.5	9226.4	8797.3	8776.3
55°	7759.1	7738.2	8152.2	9232.4	10105.5	10567.6	9955.5	9016.3	8029.2	7546.2	7498.1
57.5°	5046.7	5070.8	5688.9	6790.0	8365.3	9226.4	8194.3	6874.0	5688.9	5022.8	5085.7
60°	2271.3	2352.4	2727.4	3549.5	4902.8	5604.9	4914.7	3729.6	2862.4	2484.4	2517.3
62.5°	1305.2	1320.2	1335.2	1584.2	2088.3	2469.3	2169.3	1674.3	1476.2	1410.2	1410.2
65°	1101.1	1092.1	1095.2	1116.2	1170.2	1248.2	1215.2	1170.2	1176.1	1170.2	1161.2
67.5°	936.2	948.1	939.1	954.2	957.1	969.1	990.2	1008.1	1011.2	1017.1	1011.2
70°	768.1	771.1	777.1	789.1	792.1	801.1	831.2	846.1	855.1	855.1	867.1
72.5°	588.1	585.1	591.1	603.1	618.1	621.1	648.1	669.1	681.1	666.1	669.1
75°	387.0	390.1	399.1	408.1	429.1	450.1	459.1	480.1	483.1	489.1	474.1
77.5°	231.1	237.0	246.0	264.0	282.0	300.0	321.0	336.1	342.0	336.1	318.1
80°	150.0	150.0	162.0	177.0	198.0	213.1	225.0	237.0	246.0	237.0	231.1
82.5°	93.0	93.0	108.1	126.0	141.0	150.0	168.0	183.1	192.0	186.0	177.0
85°	48.0	51.0	63.0	78.0	90.0	96.0	93.0	84.0	75.0	72.0	66.0
87.5°	15.0	15.0	18.0	18.0	15.0	15.0	18.0	15.0	18.0	18.0	18.0
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)