

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: P646930

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646930
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-SA5C-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA 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: 23388.2 lumens
Efficiency: N/A
Efficacy: 86.9 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): 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

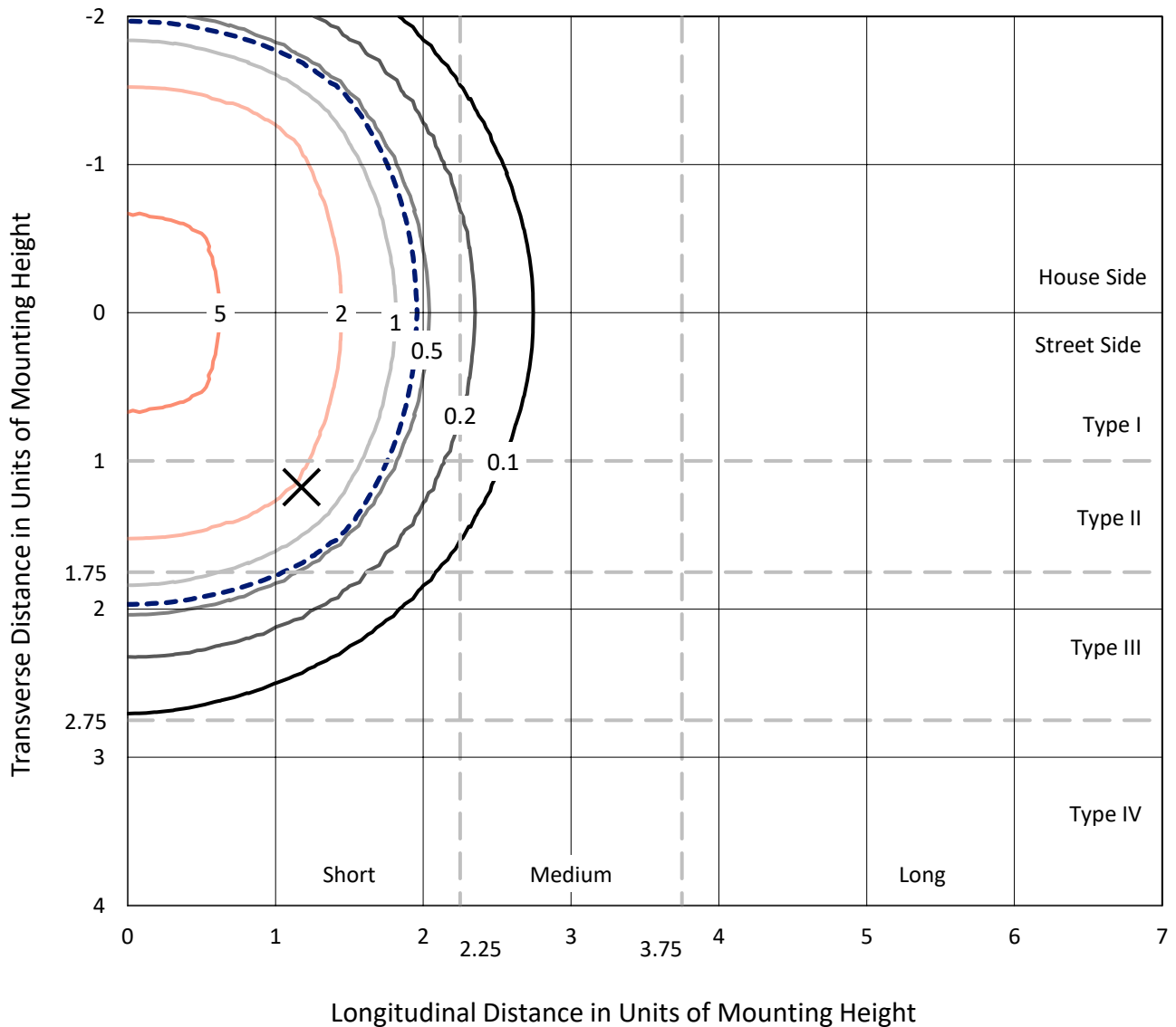




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Iso-Footcandle Lines of Horizontal Illumination

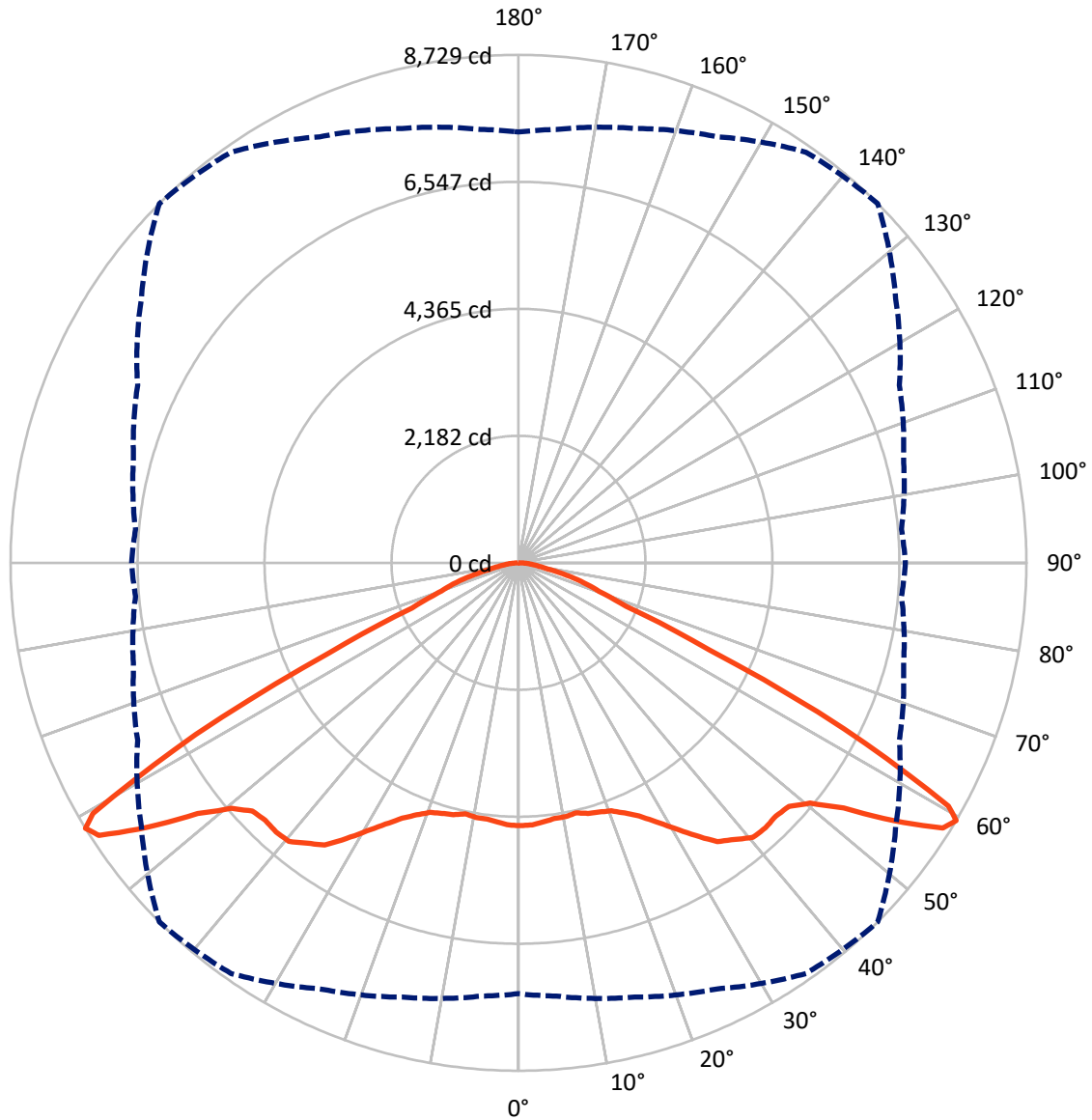
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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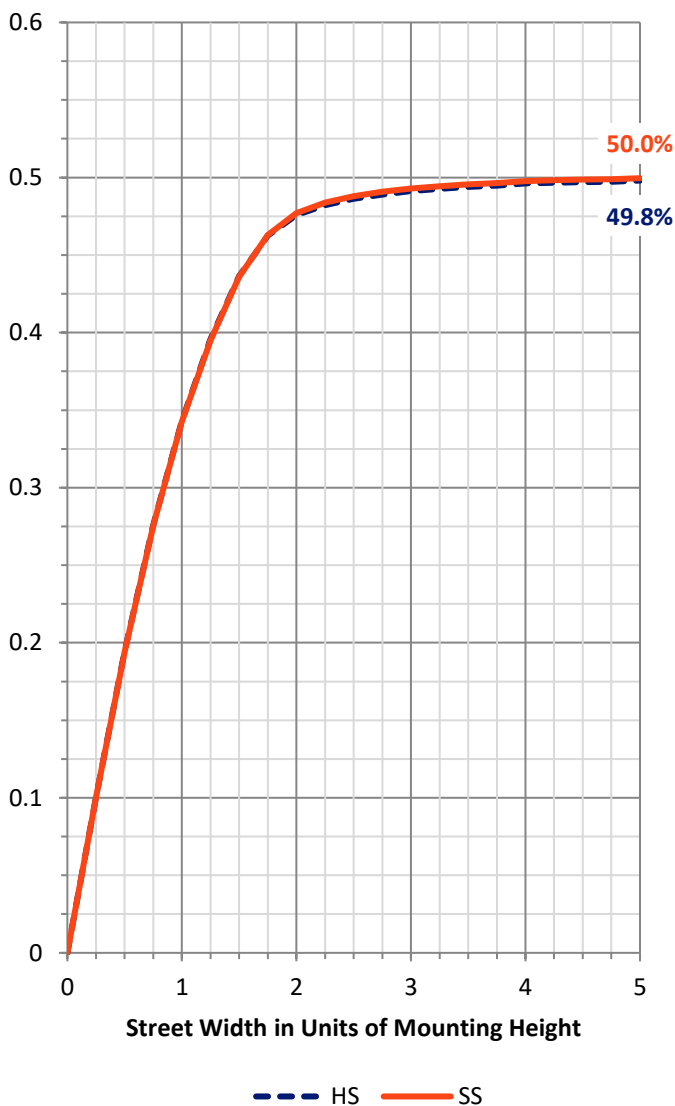
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11694.1	0.0	11694.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11694.1	0.0	11694.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	23388.2	0.0	23388.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.9	1.8
10°-20°	1266.4	5.4
20°-30°	2211.3	9.5
30°-40°	3531.8	15.1
40°-50°	4811.0	20.6
50°-60°	6505.7	27.8
60°-70°	3567.8	15.3
70°-80°	912.7	3.9
80°-90°	155.7	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°	23388.2	100.0
0°-180°	23388.2	100.0

Coefficient of Utilization



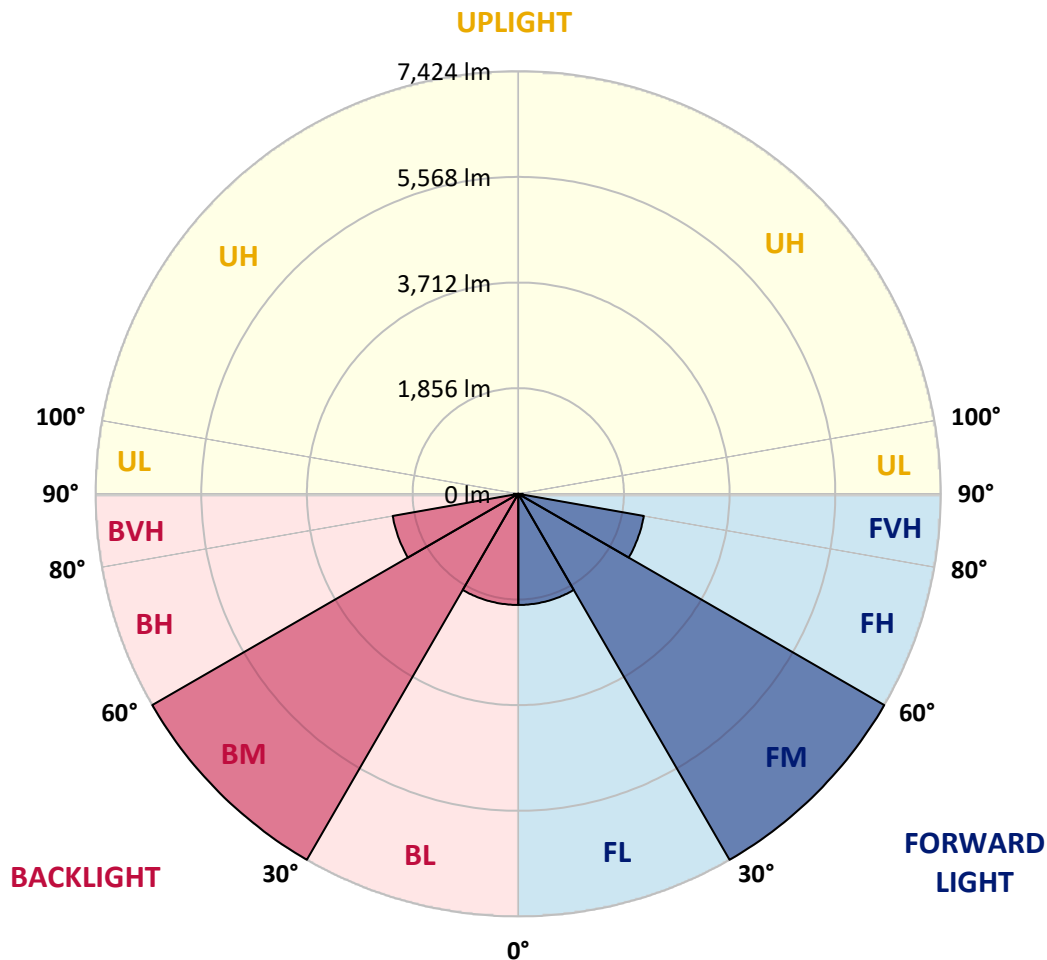
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1951.8	8.3			
FM (30°-60°)	7424.2	31.7			
FH (60°-80°)	2240.2	9.6			G2/5000
FVH (80°-90°)	77.8	0.3			G1/100
BL (0°-30°)	1951.8	8.3	B3/2500		
BM (30°-60°)	7424.2	31.7	B4/8500		
BH (60°-80°)	2240.2	9.6	B3/2500		G2/5000
BVH (80°-90°)	77.8	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°	4517.5	4517.5	4517.5	4517.5	4517.5	4517.5	4517.5	4517.5	4517.5	4517.5	4517.5
2.5°	4490.5	4523.5	4499.5	4520.5	4517.5	4508.5	4493.5	4484.5	4472.5	4490.5	4460.5
5°	4472.5	4499.5	4526.4	4490.5	4490.5	4472.5	4463.5	4445.6	4445.6	4442.5	4439.5
7.5°	4502.5	4475.5	4463.5	4469.5	4475.5	4436.6	4463.5	4427.6	4397.6	4418.5	4442.5
10°	4475.5	4487.5	4442.5	4463.5	4430.5	4436.6	4418.5	4442.5	4409.5	4409.5	4409.5
12.5°	4502.5	4469.5	4484.5	4469.5	4460.5	4409.5	4433.6	4406.6	4403.6	4433.6	4406.6
15°	4556.4	4502.5	4490.5	4460.5	4469.5	4469.5	4445.6	4448.5	4415.6	4433.6	4439.5
17.5°	4538.5	4508.5	4499.5	4463.5	4493.5	4502.5	4457.5	4427.6	4448.5	4445.6	4442.5
20°	4553.5	4565.4	4556.4	4562.5	4574.4	4550.5	4508.5	4466.5	4439.5	4478.5	4475.5
22.5°	4649.4	4637.4	4631.4	4625.4	4646.4	4670.4	4613.4	4547.4	4547.4	4574.4	4586.4
25°	4727.3	4724.3	4721.3	4748.3	4820.2	4820.2	4748.3	4664.3	4643.3	4661.4	4646.4
27.5°	4841.2	4874.2	4862.2	4910.2	5015.1	5039.1	4943.2	4844.3	4787.3	4766.3	4793.3
30°	5102.0	5063.0	5072.0	5123.0	5216.0	5293.9	5147.0	5042.1	4964.1	4961.2	4973.1
32.5°	5275.9	5305.8	5332.9	5380.8	5527.7	5587.6	5410.8	5239.9	5192.0	5165.0	5174.0
35°	5623.6	5596.6	5590.6	5638.6	5785.5	5884.4	5662.6	5512.7	5449.8	5509.7	5509.7
37.5°	5953.4	5878.5	5821.4	5884.4	6019.3	6031.3	5842.4	5761.5	5728.5	5797.5	5794.5
40°	6109.3	6103.3	5971.3	6007.3	6187.2	6205.2	6028.3	5932.4	5926.4	6016.3	6106.2
42.5°	6271.1	6214.2	6082.3	6106.2	6217.2	6223.1	6055.3	6028.3	6094.2	6181.2	6187.2
45°	6298.1	6250.1	6166.2	6106.2	6187.2	6205.2	6106.2	6124.2	6130.3	6235.2	6235.2
47.5°	6352.1	6346.1	6298.1	6253.1	6268.1	6253.1	6190.2	6217.2	6307.1	6358.0	6334.1
50°	6502.0	6439.0	6486.9	6448.0	6451.0	6492.9	6436.0	6463.0	6445.0	6400.0	6370.0
52.5°	6831.7	6801.7	6843.7	6870.7	6900.7	6996.6	6930.6	6786.7	6651.8	6531.9	6528.9
55°	7314.3	7335.3	7416.3	7554.1	7671.1	7823.9	7506.2	7161.4	6945.6	6756.7	6768.7
57.5°	7769.9	7755.0	7865.9	8180.6	8522.3	8600.3	7976.8	7485.2	7134.5	7014.5	6963.6
59°	7404.2	7476.2	7728.0	8078.7	8615.3	8729.2	7913.9	7221.4	6849.7	6606.9	6648.8
60°	6828.7	6855.6	7080.5	7569.1	8294.6	8489.4	7491.2	6813.7	6319.0	6178.2	6241.1
62.5°	4826.3	4805.3	4967.1	5365.8	6016.3	6280.1	5569.6	5093.0	4781.3	4625.4	4661.4
65°	2566.0	2662.0	2727.9	2976.7	3321.4	3600.2	3306.5	3099.6	2925.8	2796.8	2793.8
67.5°	1732.6	1720.6	1735.7	1792.6	1909.5	1987.5	1981.5	1876.5	1861.6	1837.5	1864.6
70°	1459.8	1453.9	1426.9	1426.9	1450.9	1468.8	1489.8	1501.8	1525.8	1555.8	1552.8
72.5°	1184.1	1169.1	1151.1	1142.1	1172.1	1181.1	1208.1	1220.1	1241.1	1238.0	1265.0
75°	782.4	782.4	803.4	827.3	836.3	854.3	857.3	893.3	893.3	899.3	875.3
77.5°	437.7	425.6	440.7	464.6	485.6	518.6	551.5	578.6	593.5	587.6	587.6
80°	254.8	254.8	269.8	296.8	323.8	353.8	377.7	398.7	413.7	407.7	395.7
82.5°	158.9	158.9	173.8	200.8	221.8	239.8	272.8	299.7	317.7	311.8	296.8
85°	81.0	81.0	98.9	116.9	143.9	155.9	152.9	140.9	137.9	122.9	122.9
87.5°	21.0	21.0	30.0	33.0	27.0	30.0	30.0	30.0	30.0	30.0	33.0
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)