

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: P646957

Luminaire Tested: **GALN-SA5C-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27519.3 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

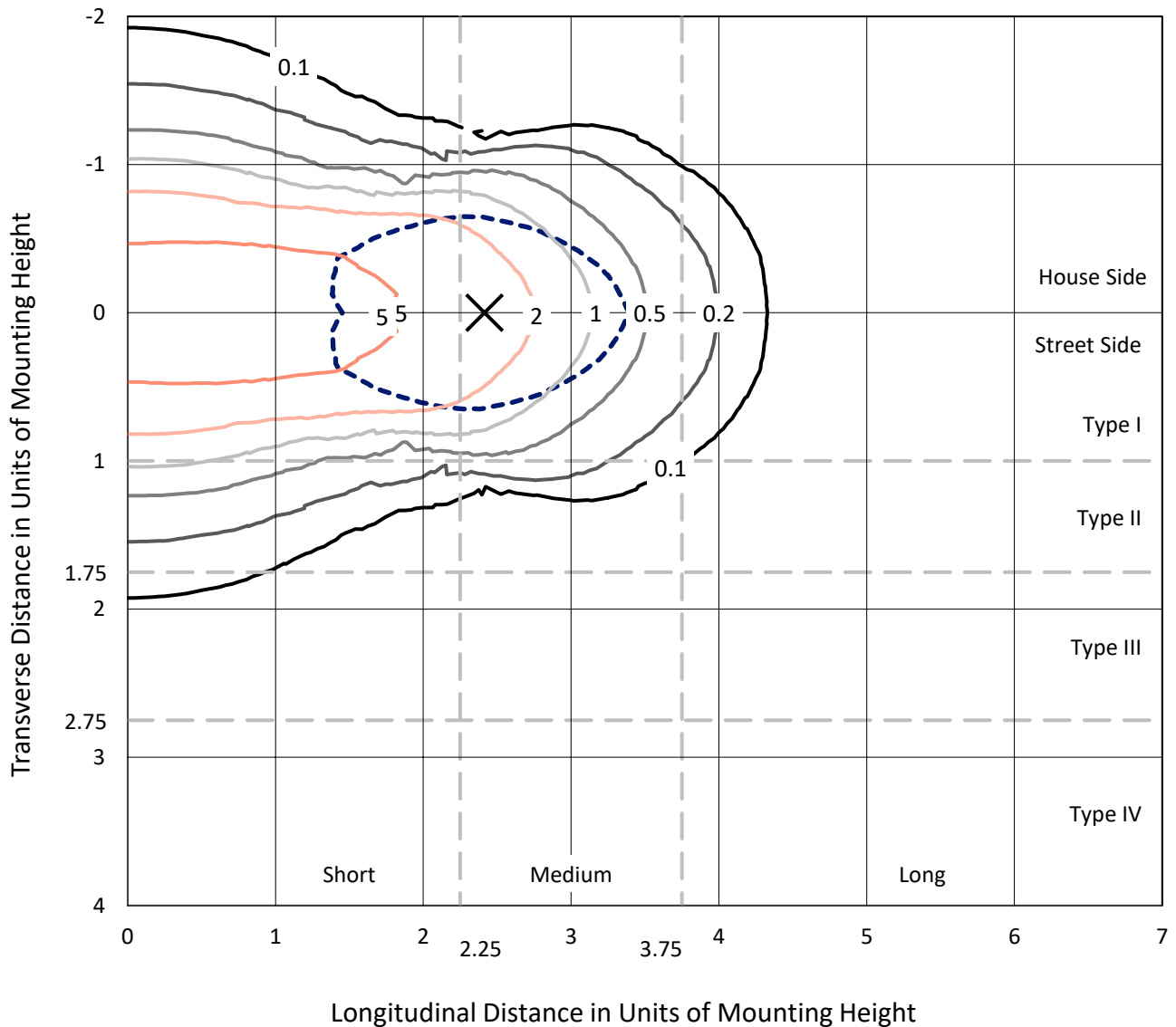
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

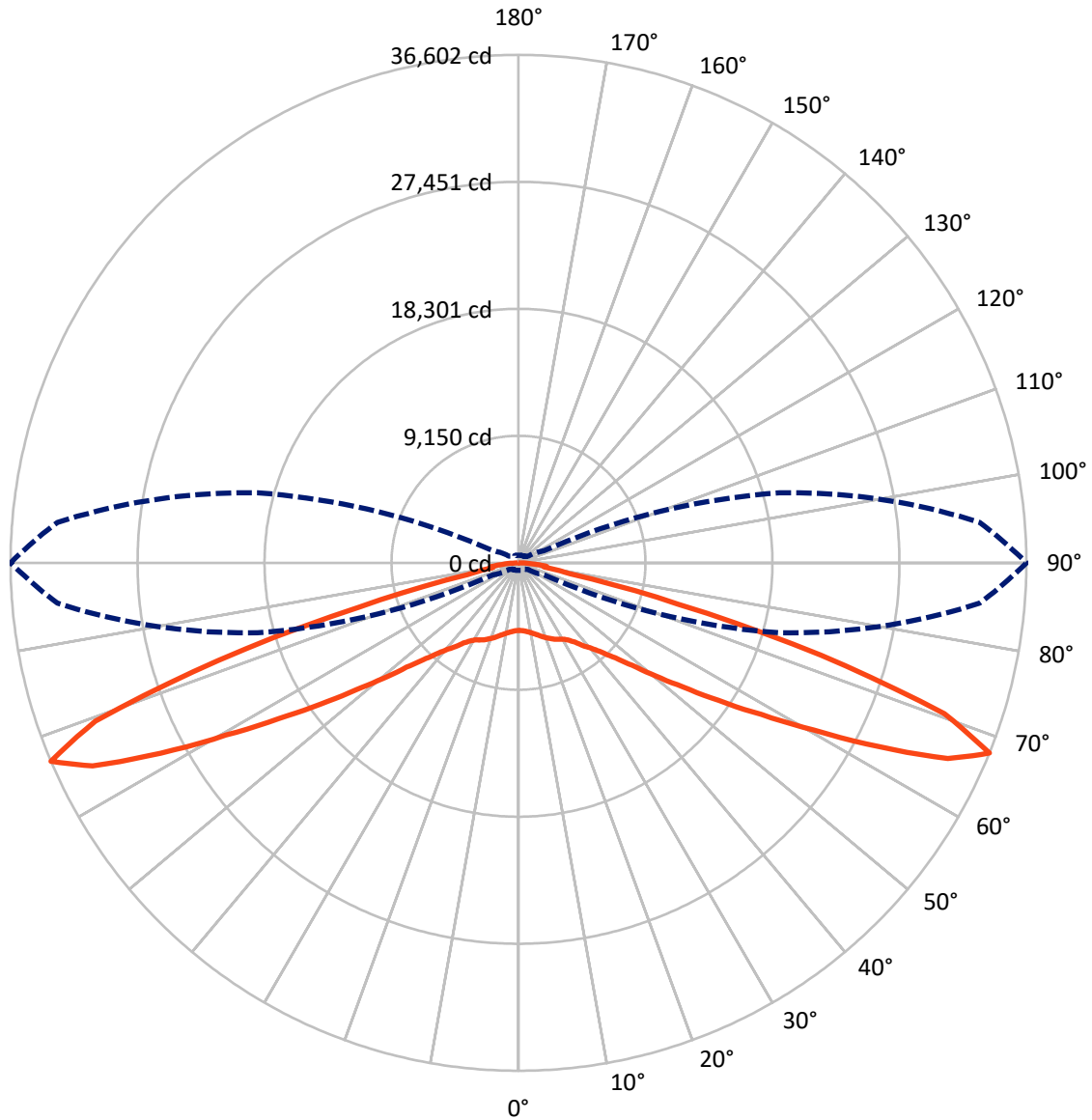
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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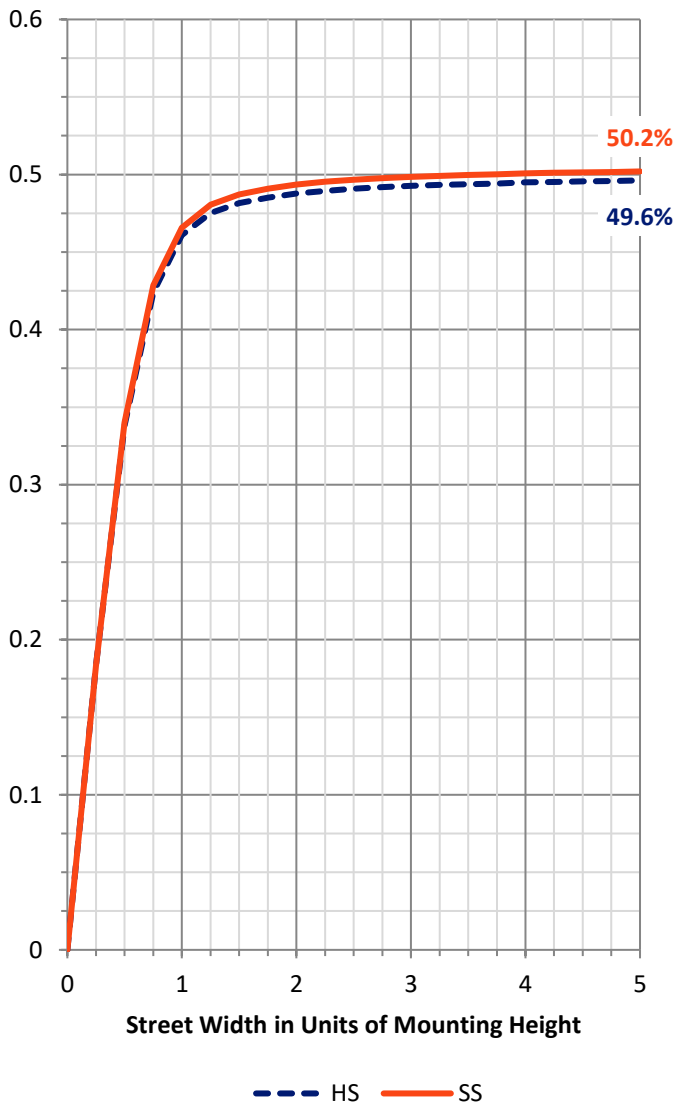
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13759.6	0.0	13759.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13759.6	0.0	13759.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	27519.3	0.0	27519.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.7	1.8
10°-20°	1554.0	5.6
20°-30°	2601.0	9.5
30°-40°	3523.7	12.8
40°-50°	4463.4	16.2
50°-60°	5575.9	20.3
60°-70°	6554.2	23.8
70°-80°	2507.3	9.1
80°-90°	254.0	0.9
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°	27519.3	100.0
0°-180°	27519.3	100.0



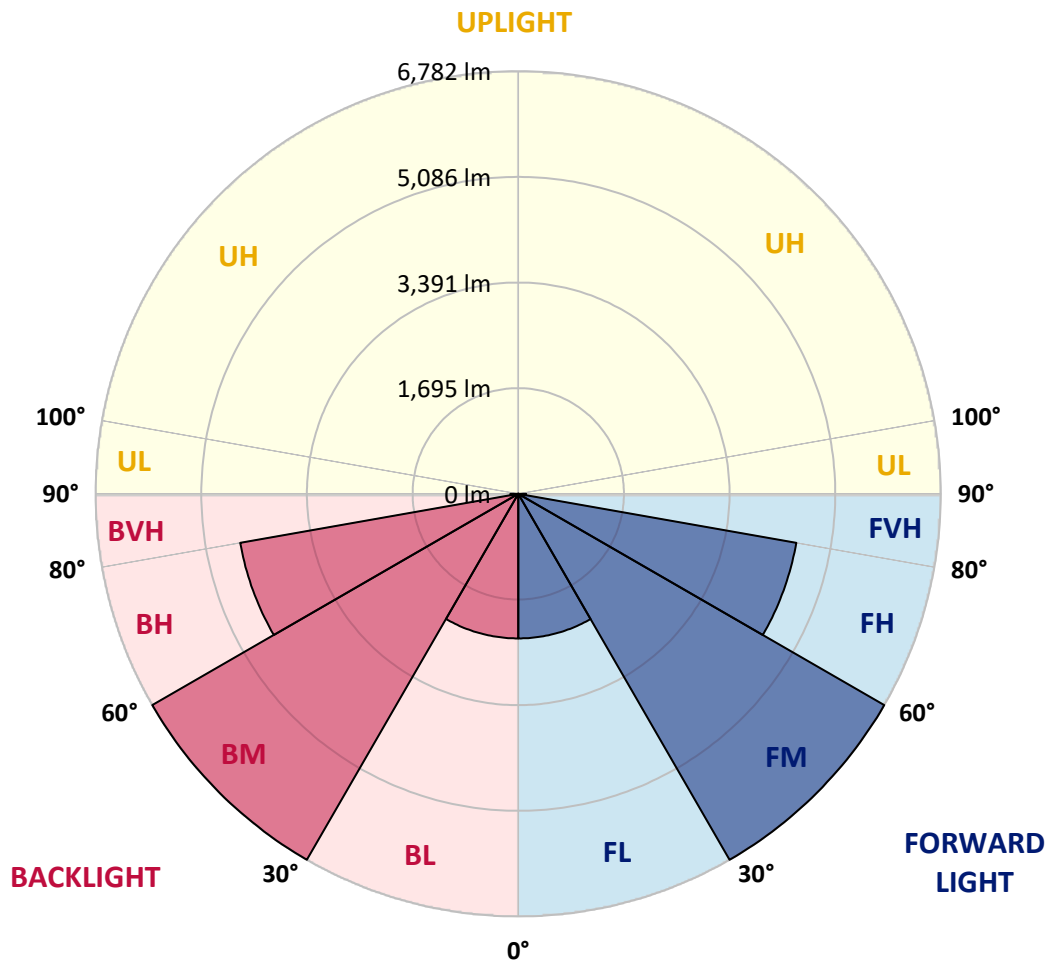
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.4	8.4			
FM (30°-60°)	6781.5	24.6			
FH (60°-80°)	4530.7	16.5			G2/5000
FVH (80°-90°)	127.0	0.5			G2/225
BL (0°-30°)	2320.4	8.4	B3/2500		
BM (30°-60°)	6781.5	24.6	B4/8500		
BH (60°-80°)	4530.7	16.5	B4/5000		G4/5000
BVH (80°-90°)	127.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4871.7	4871.7	4871.7	4871.7	4871.7	4871.7	4871.7	4871.7	4871.7	4871.7	4871.7
2.5°	4934.2	4931.2	4932.7	4931.2	4935.8	4932.7	4914.4	4899.2	4887.0	4888.5	4884.0
5°	5039.4	5041.0	5042.4	5034.8	5045.5	5039.4	5010.4	4986.1	4961.7	4952.6	4949.5
7.5°	5126.2	5133.9	5138.4	5146.0	5164.4	5164.4	5149.1	5114.1	5060.8	5030.2	5028.7
10°	5213.1	5219.2	5232.9	5257.3	5287.8	5316.7	5310.6	5263.4	5194.8	5143.1	5130.8
12.5°	5243.6	5251.2	5296.9	5367.0	5435.6	5492.0	5492.0	5453.9	5365.5	5286.3	5263.4
15°	5136.9	5150.7	5232.9	5382.3	5562.1	5685.5	5712.9	5659.6	5565.1	5443.3	5415.8
17.5°	4925.1	4958.7	5079.0	5300.0	5598.7	5854.6	5933.9	5908.0	5786.1	5630.6	5598.7
20°	4698.1	4734.6	4862.7	5155.2	5568.1	5953.7	6183.8	6189.9	6039.0	5813.5	5766.2
22.5°	4448.1	4475.5	4640.1	4983.0	5476.8	5976.6	6398.7	6503.8	6299.6	5996.4	5929.3
25°	4167.8	4198.2	4370.4	4740.8	5304.6	5950.6	6595.3	6826.9	6572.4	6191.4	6106.1
27.5°	3899.6	3911.7	4096.1	4472.5	5077.5	5883.6	6740.1	7124.0	6874.1	6352.9	6244.7
30°	3642.0	3670.9	3834.0	4205.9	4816.9	5752.5	6865.0	7462.3	7198.7	6522.1	6383.4
32.5°	3369.2	3404.3	3581.1	3957.4	4556.4	5556.0	6941.1	7832.7	7651.3	6796.4	6648.6
35°	3107.2	3130.0	3308.3	3674.0	4301.9	5327.4	6954.9	8250.2	8235.0	7212.4	7015.8
37.5°	2838.9	2872.4	3052.3	3402.8	4032.1	5085.1	6886.3	8693.6	8939.0	7790.0	7578.2
40°	2581.4	2610.4	2787.2	3140.7	3725.8	4789.5	6723.2	9098.9	9760.3	8384.3	8084.1
42.5°	2301.0	2308.7	2502.2	2861.8	3425.6	4446.7	6488.6	9460.1	10676.1	9181.2	8807.9
45°	1982.6	2002.4	2182.1	2535.7	3081.3	4062.6	6170.1	9758.8	11837.3	10286.0	9777.1
47.5°	1664.0	1680.8	1845.4	2194.4	2704.9	3622.2	5679.4	10020.9	13029.0	11689.5	11022.1
50°	1353.2	1362.3	1496.4	1805.8	2281.2	3158.9	5071.4	10104.7	14376.1	13676.7	12824.8
52.5°	1069.7	1083.4	1185.5	1427.9	1828.6	2611.9	4414.6	9897.4	15948.7	16032.6	14831.7
55°	867.1	871.6	947.8	1126.1	1429.4	2038.9	3622.2	9319.9	17640.2	19051.3	17519.8
57.5°	746.7	749.7	792.4	891.4	1100.2	1537.6	2810.0	8227.3	19159.5	22588.1	20619.4
60°	678.1	679.6	704.0	761.9	871.6	1179.4	2013.0	6685.2	20659.0	26524.3	24471.6
62.5°	635.5	635.5	652.2	684.2	737.6	905.1	1458.3	4823.0	21686.0	30518.3	29220.0
65°	594.3	594.3	606.5	629.4	658.3	740.6	1077.3	3145.2	21660.1	33427.4	33995.7
67.5°	547.1	547.1	556.2	579.0	595.9	637.0	832.0	2060.2	19456.6	33363.4	36601.6
70°	490.7	490.7	502.8	522.7	536.4	562.3	656.8	1409.6	14293.8	28487.0	32551.1
72.5°	434.3	435.8	443.4	463.2	473.9	489.1	545.5	987.4	8768.3	19397.2	22760.3
75°	371.8	374.9	382.5	402.3	411.5	417.6	460.2	704.0	4435.9	10458.2	11907.4
77.5°	300.2	306.3	310.9	332.2	338.3	347.4	379.4	509.0	1947.5	3757.9	3791.4
80°	219.4	227.1	240.8	260.6	265.1	271.2	289.6	361.1	882.3	1715.9	1863.7
82.5°	161.5	172.2	155.4	181.3	181.3	173.7	204.2	242.3	405.4	1699.1	2032.8
85°	88.4	89.9	80.7	92.9	99.0	97.6	108.2	118.9	196.6	1133.8	1168.8
87.5°	21.3	22.9	24.4	29.0	35.1	35.1	38.1	33.5	64.0	367.2	210.3
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)