

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: P457311

Luminaire Tested: **GALN-SA8C-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457311
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-SA8C-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41660 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

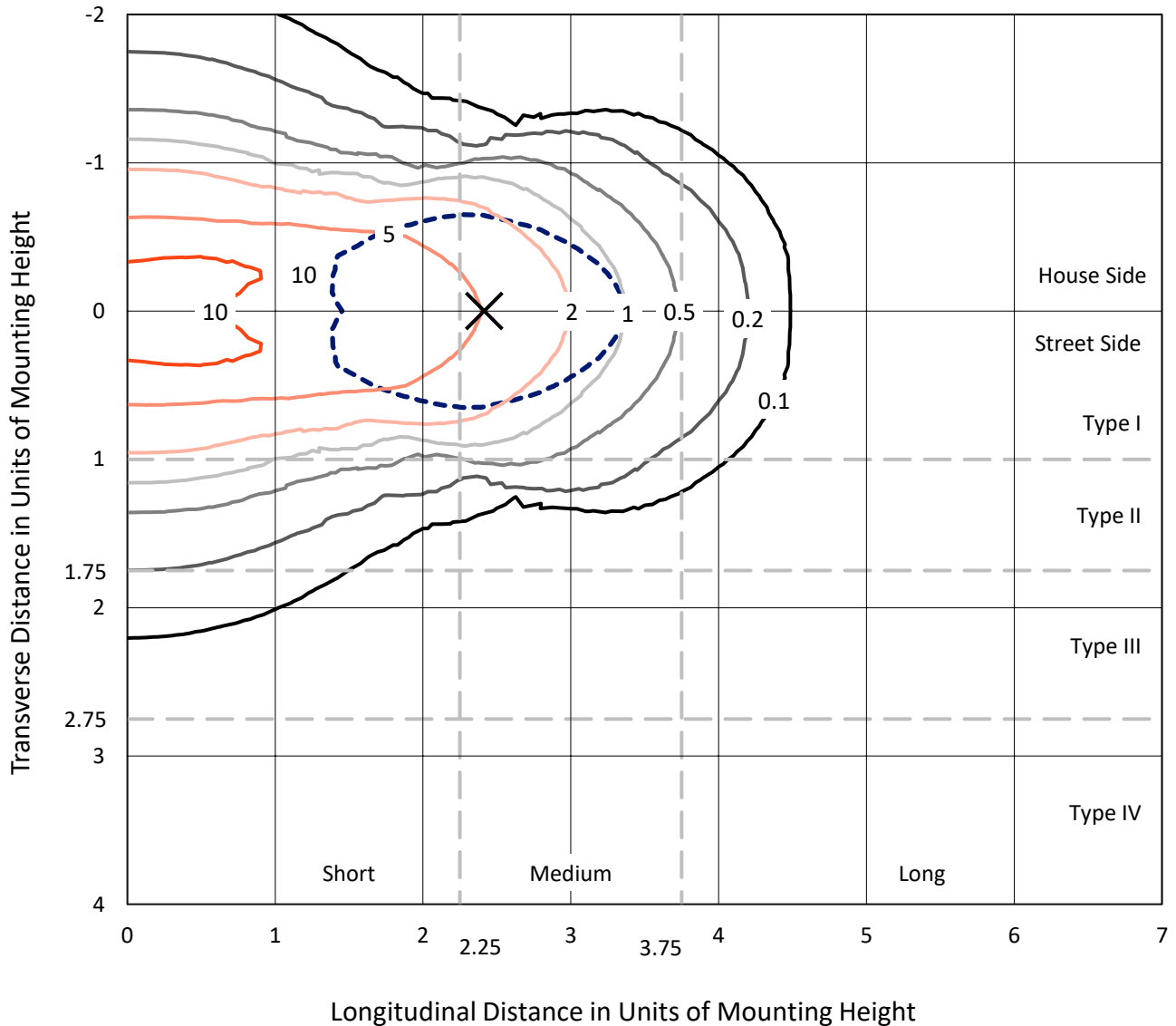
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

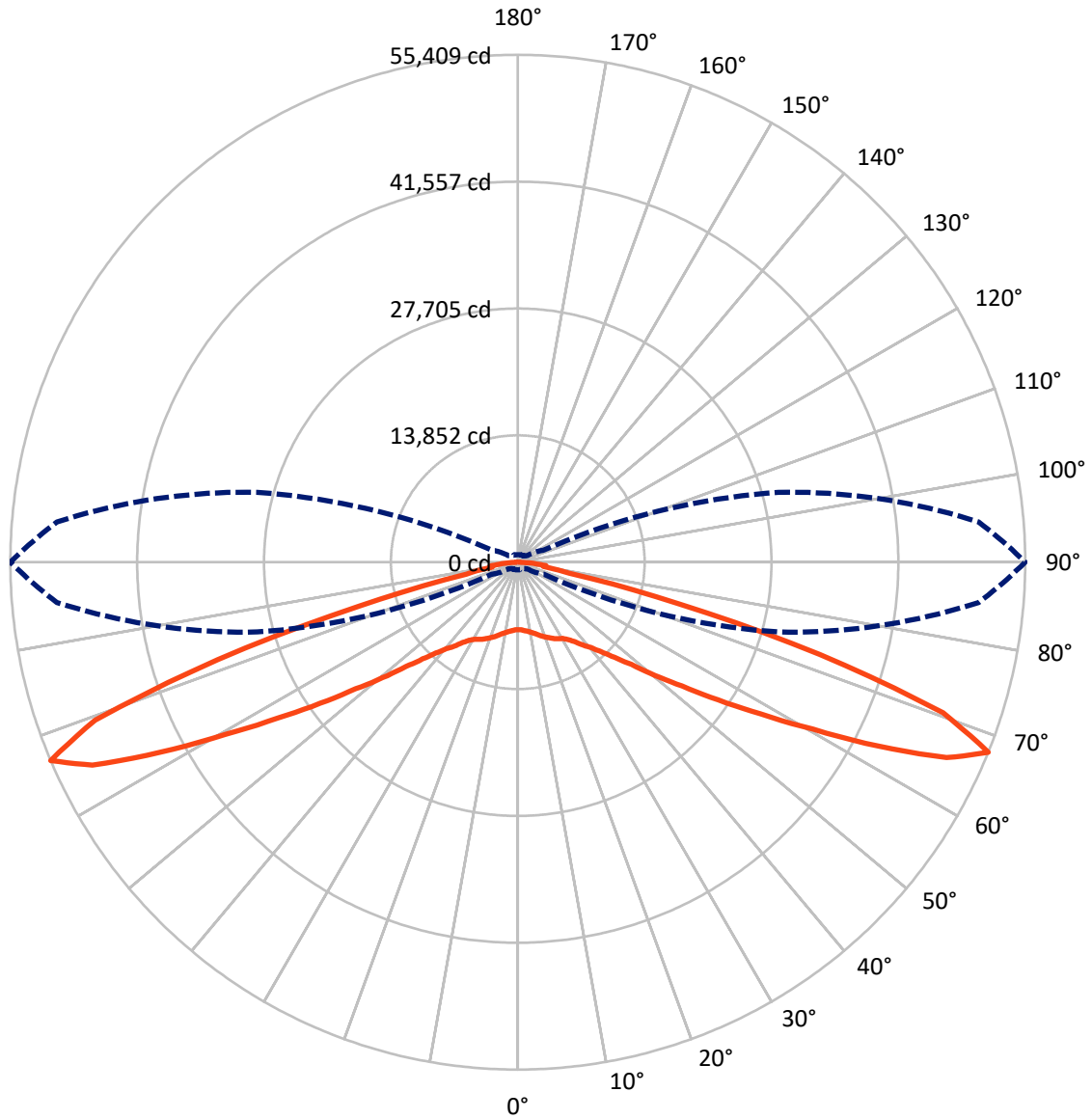
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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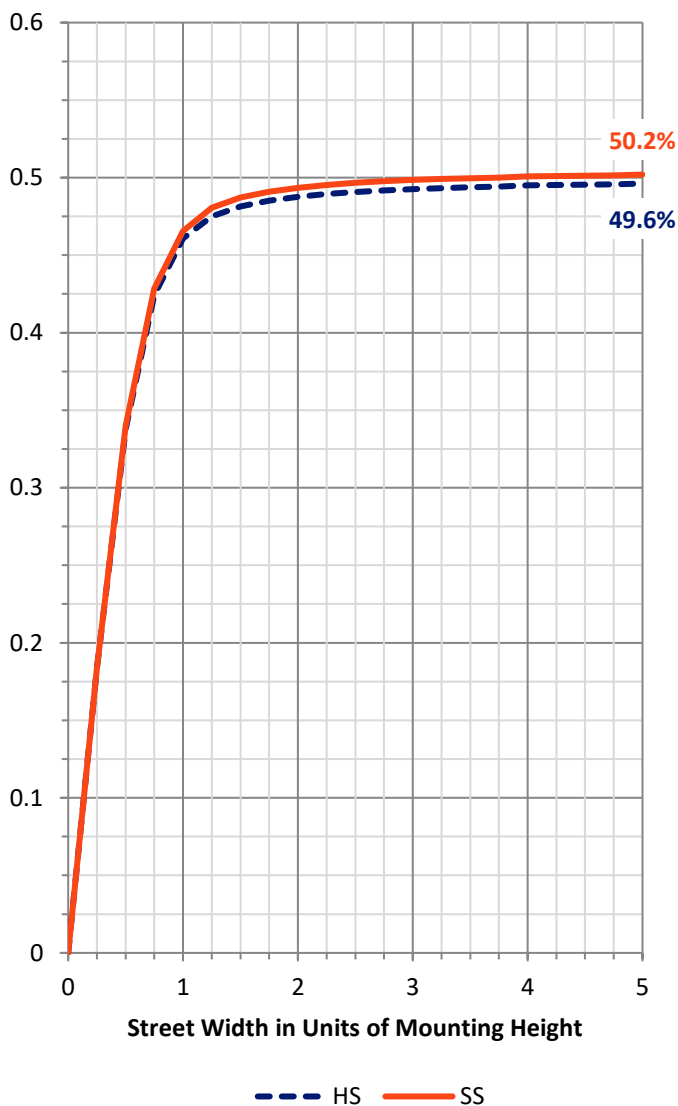
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20830.0	0.0	20830.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20830.0	0.0	20830.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41660.0	0.0	41660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.3	1.8
10°-20°	2352.6	5.6
20°-30°	3937.6	9.5
30°-40°	5334.4	12.8
40°-50°	6756.9	16.2
50°-60°	8441.0	20.3
60°-70°	9922.1	23.8
70°-80°	3795.6	9.1
80°-90°	384.5	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°	41660.0	100.0
0°-180°	41660.0	100.0

Coefficient of Utilization



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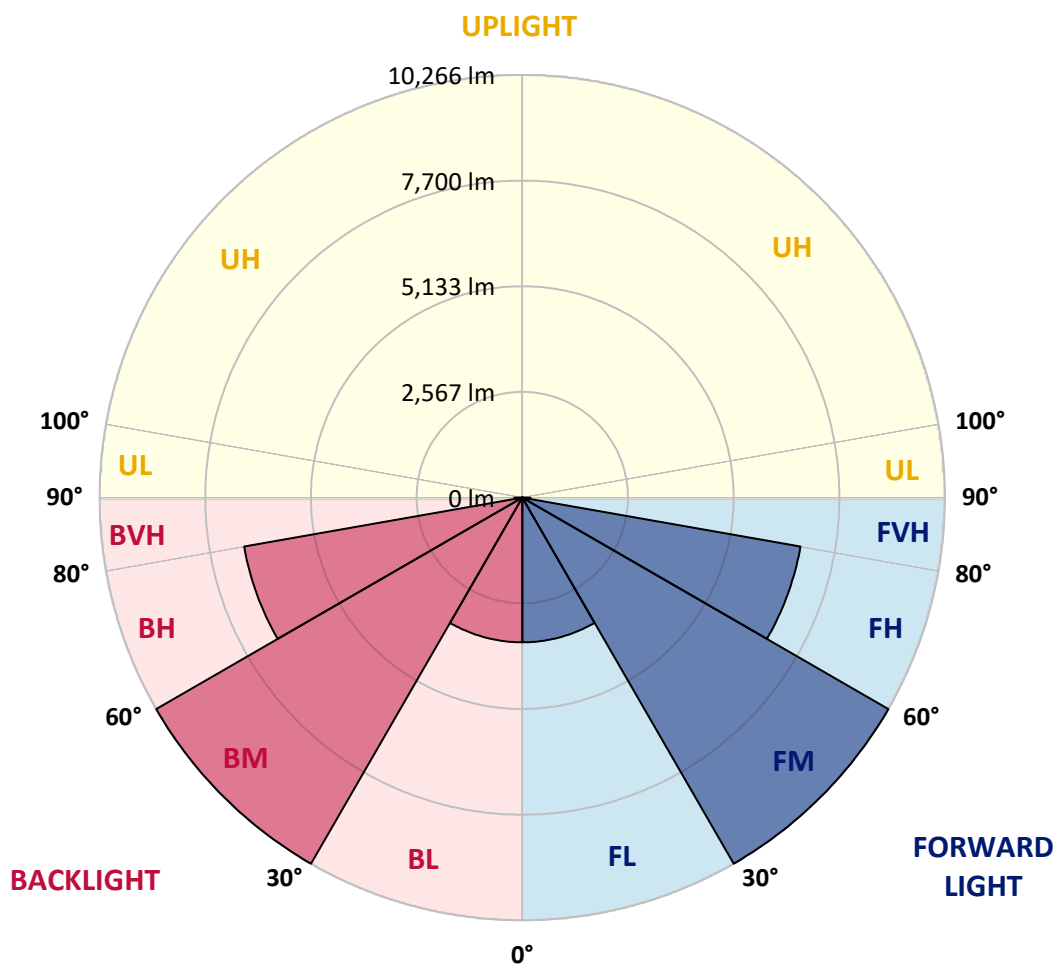
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3512.7	8.4			
FM	(30°-60°)	10266.2	24.6			
FH	(60°-80°)	6858.9	16.5			G3/7500
FVH	(80°-90°)	192.3	0.5			G2/225
BL	(0°-30°)	3512.7	8.4	B4/5000		
BM	(30°-60°)	10266.2	24.6	B5		
BH	(60°-80°)	6858.9	16.5	B5		G5
BVH	(80°-90°)	192.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7375.1	7375.1	7375.1	7375.1	7375.1	7375.1	7375.1	7375.1	7375.1	7375.1	7375.1
2.5°	7469.7	7465.1	7467.4	7465.1	7472.0	7467.4	7439.7	7416.6	7398.2	7400.5	7393.6
5°	7628.9	7631.2	7633.5	7622.0	7638.1	7628.9	7585.0	7548.1	7511.2	7497.4	7492.8
7.5°	7760.4	7771.9	7778.8	7790.4	7818.0	7818.0	7795.0	7741.9	7661.2	7615.0	7612.7
10°	7891.9	7901.1	7921.8	7958.8	8004.9	8048.7	8039.5	7968.0	7864.2	7785.7	7767.3
12.5°	7938.0	7949.5	8018.7	8124.9	8228.7	8314.0	8314.0	8256.3	8122.5	8002.6	7968.0
15°	7776.5	7797.3	7921.8	8147.9	8420.1	8607.0	8648.5	8567.8	8424.8	8240.2	8198.7
17.5°	7455.9	7506.6	7688.9	8023.4	8475.5	8863.1	8983.0	8943.8	8759.2	8523.9	8475.5
20°	7112.1	7167.5	7361.3	7804.2	8429.4	9013.0	9361.3	9370.6	9142.2	8800.8	8729.3
22.5°	6733.8	6775.3	7024.5	7543.5	8291.0	9047.6	9686.6	9845.8	9536.7	9077.6	8976.1
25°	6309.3	6355.5	6616.2	7176.7	8030.3	9008.4	9984.2	10334.9	9949.6	9372.9	9243.7
27.5°	5903.3	5921.8	6200.9	6770.7	7686.5	8906.9	10203.4	10784.7	10406.4	9617.4	9453.6
30°	5513.5	5557.3	5804.1	6367.0	7292.1	8708.5	10392.5	11296.8	10897.7	9873.5	9663.5
32.5°	5100.5	5153.6	5421.2	5991.0	6897.6	8410.9	10507.9	11857.4	11582.9	10288.7	10064.9
35°	4703.7	4738.3	5008.3	5561.9	6512.3	8064.9	10528.6	12489.5	12466.4	10918.5	10620.9
37.5°	4297.7	4348.5	4620.7	5151.3	6104.0	7698.1	10424.8	13160.8	13532.2	11792.8	11472.1
40°	3907.9	3951.7	4219.3	4754.5	5640.3	7250.5	10178.0	13774.4	14775.6	12692.5	12238.0
42.5°	3483.4	3494.9	3787.9	4332.3	5185.9	6731.5	9822.7	14321.2	16162.0	13899.0	13333.8
45°	3001.3	3031.2	3303.5	3838.7	4664.5	6150.2	9340.6	14773.3	17919.9	15571.5	14801.0
47.5°	2519.1	2544.5	2793.6	3321.9	4094.7	5483.5	8597.8	15170.1	19723.9	17696.1	16685.7
50°	2048.5	2062.4	2265.4	2733.7	3453.4	4782.2	7677.3	15297.0	21763.2	20704.3	19414.8
52.5°	1619.4	1640.2	1794.8	2161.6	2768.3	3954.0	6683.1	14983.2	24143.9	24270.8	22452.9
55°	1312.6	1319.5	1434.9	1704.8	2163.9	3086.6	5483.5	14108.9	26704.5	28840.7	26522.3
57.5°	1130.4	1135.0	1199.6	1349.5	1665.6	2327.6	4253.9	12454.9	29004.5	34195.0	31214.5
60°	1026.6	1028.9	1065.8	1153.4	1319.5	1785.5	3047.4	10120.3	31274.5	40153.7	37046.3
62.5°	962.0	962.0	987.3	1035.8	1116.5	1370.3	2207.7	7301.3	32829.3	46200.0	44234.6
65°	899.7	899.7	918.1	952.7	996.6	1121.1	1631.0	4761.4	32790.1	50603.9	51464.3
67.5°	828.2	828.2	842.0	876.6	902.0	964.3	1259.6	3118.9	29454.3	50507.0	55409.1
70°	742.8	742.8	761.3	791.3	812.0	851.2	994.3	2133.9	21638.6	43124.9	49277.4
72.5°	657.5	659.8	671.3	701.3	717.4	740.5	825.9	1494.9	13273.8	29364.4	34455.7
75°	562.9	567.5	579.0	609.0	622.9	632.1	696.7	1065.8	6715.3	15832.2	18026.0
77.5°	454.5	463.7	470.6	502.9	512.1	526.0	574.4	770.5	2948.2	5688.8	5739.5
80°	332.2	343.7	364.5	394.5	401.4	410.6	438.3	546.7	1335.7	2597.6	2821.3
82.5°	244.5	260.7	235.3	274.5	274.5	263.0	309.1	366.8	613.6	2572.2	3077.4
85°	133.8	136.1	122.3	140.7	149.9	147.6	163.8	179.9	297.6	1716.3	1769.4
87.5°	32.3	34.6	36.9	43.8	53.1	53.1	57.7	50.8	96.9	556.0	318.4
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)