

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: P532984

Luminaire Tested: **GALN-SA8B-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532984
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-SA8B-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 28656 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

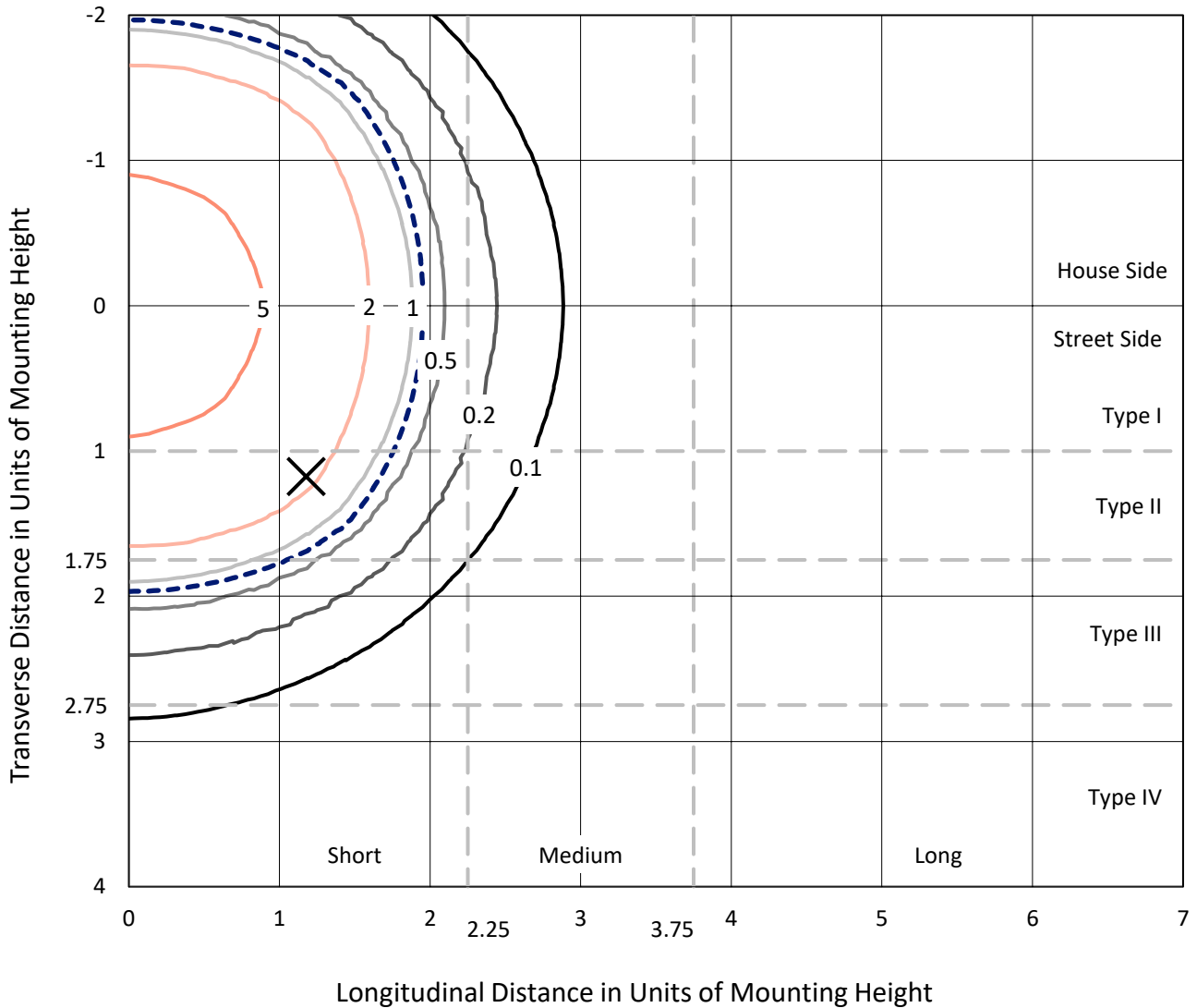
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

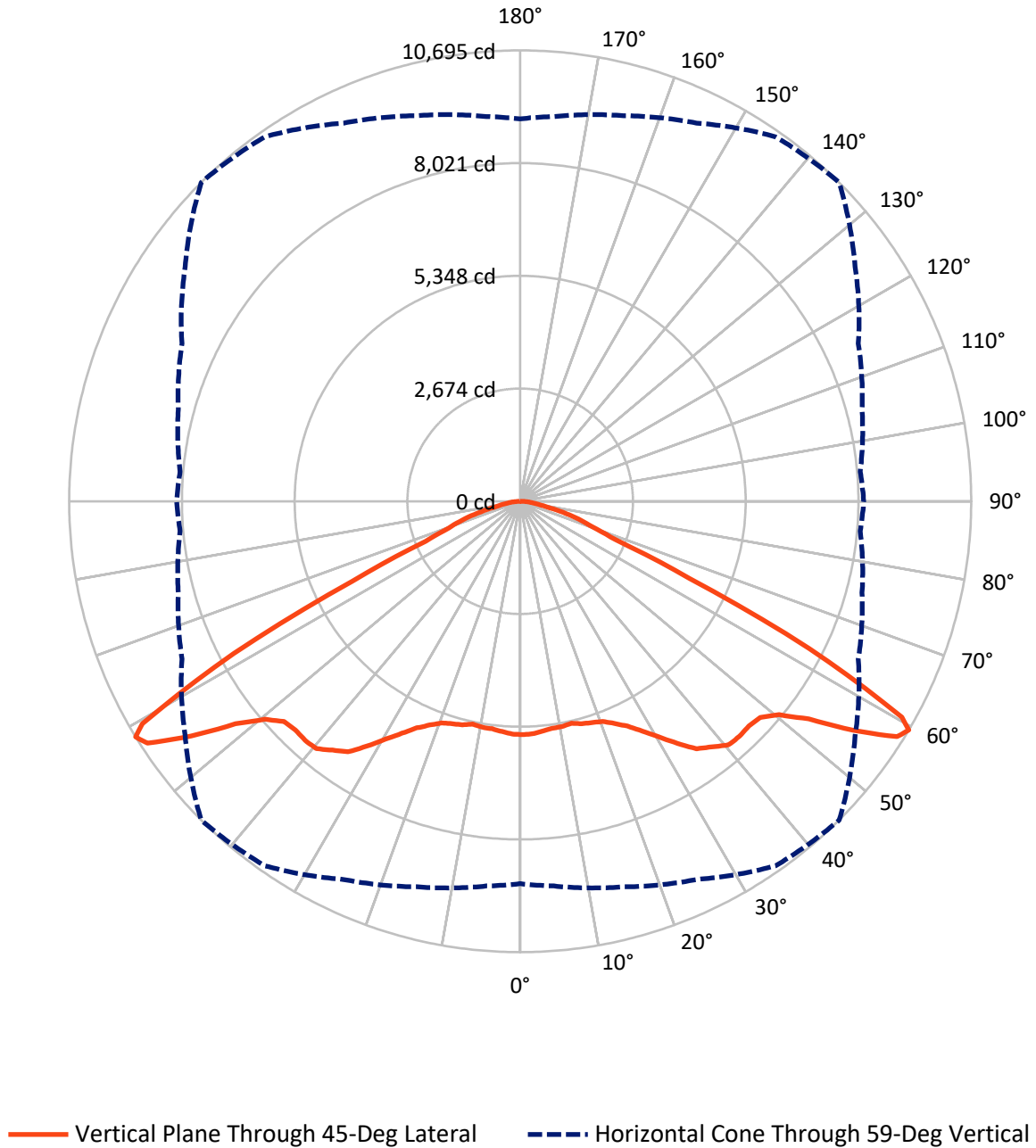
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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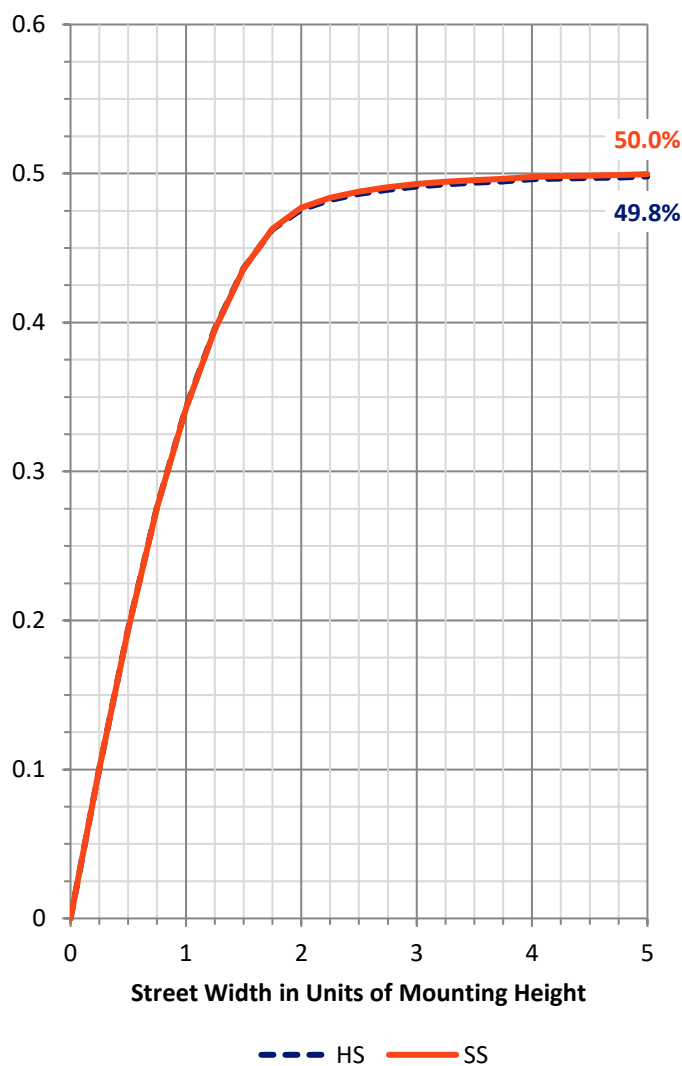
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14328.0	0.0	14328.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14328.0	0.0	14328.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28656.0	0.0	28656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.8	1.8
10°-20°	1551.7	5.4
20°-30°	2709.4	9.5
30°-40°	4327.2	15.1
40°-50°	5894.6	20.6
50°-60°	7971.0	27.8
60°-70°	4371.3	15.3
70°-80°	1118.3	3.9
80°-90°	190.7	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°	28656.0	100.0
0°-180°	28656.0	100.0

Coefficient of Utilization



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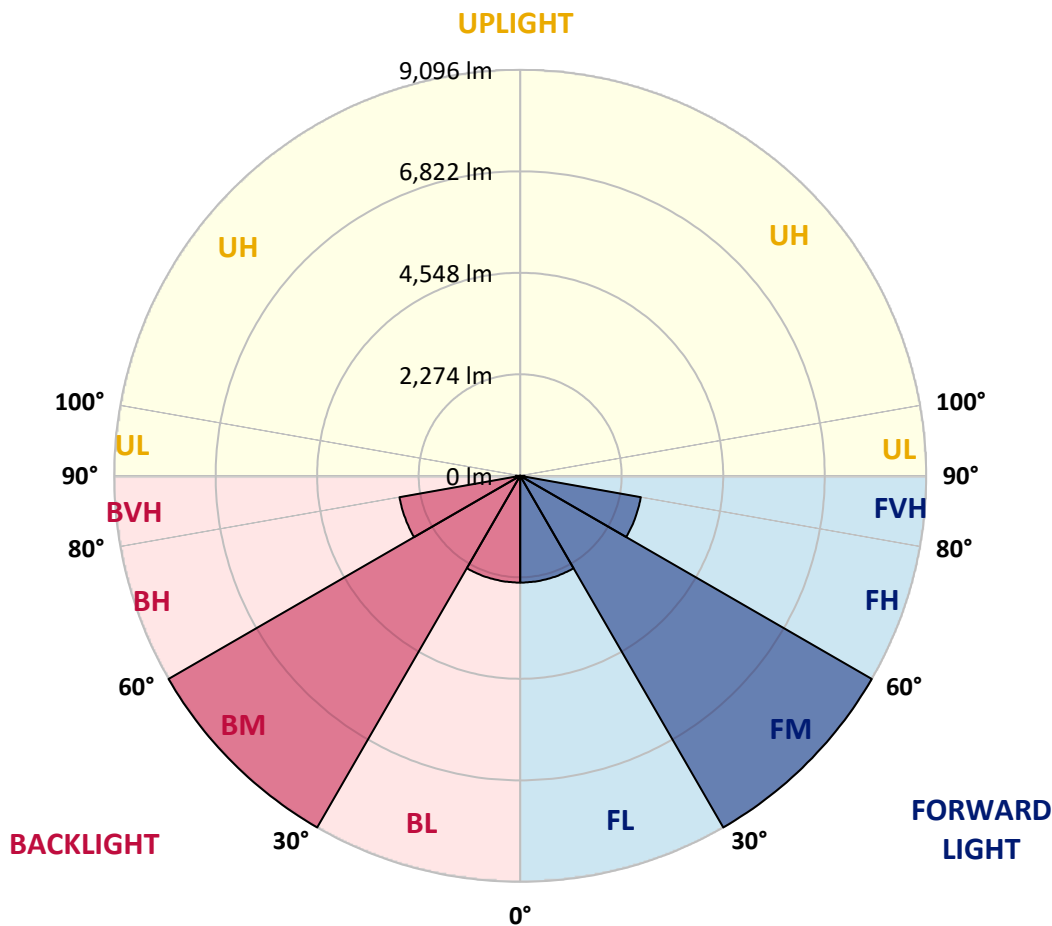
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.4	8.3			
FM (30°-60°)	9096.4	31.7			
FH (60°-80°)	2744.8	9.6			G2/5000
FVH (80°-90°)	95.4	0.3			G1/100
BL (0°-30°)	2391.4	8.3	B3/2500		
BM (30°-60°)	9096.4	31.7	B5		
BH (60°-80°)	2744.8	9.6	B4/5000		G2/5000
BVH (80°-90°)	95.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5535.0	5535.0	5535.0	5535.0	5535.0	5535.0	5535.0	5535.0	5535.0	5535.0	5535.0
2.5°	5501.9	5542.3	5512.9	5538.6	5535.0	5524.0	5505.6	5494.6	5479.9	5501.9	5465.2
5°	5479.9	5512.9	5546.0	5501.9	5501.9	5479.9	5468.9	5446.8	5446.8	5443.1	5439.5
7.5°	5516.6	5483.5	5468.9	5476.2	5483.5	5435.8	5468.9	5424.8	5388.1	5413.8	5443.1
10°	5483.5	5498.2	5443.1	5468.9	5428.5	5435.8	5413.8	5443.1	5402.7	5402.7	5402.7
12.5°	5516.6	5476.2	5494.6	5476.2	5465.2	5402.7	5432.1	5399.1	5395.4	5432.1	5399.1
15°	5582.7	5516.6	5501.9	5465.2	5476.2	5476.2	5446.8	5450.5	5410.1	5432.1	5439.5
17.5°	5560.7	5524.0	5512.9	5468.9	5505.6	5516.6	5461.5	5424.8	5450.5	5446.8	5443.1
20°	5579.0	5593.7	5582.7	5590.1	5604.8	5575.4	5524.0	5472.5	5439.5	5487.2	5483.5
22.5°	5696.6	5681.9	5674.5	5667.2	5692.9	5722.3	5652.5	5571.7	5571.7	5604.8	5619.4
25°	5792.1	5788.4	5784.7	5817.8	5905.9	5905.9	5817.8	5714.9	5689.2	5711.3	5692.9
27.5°	5931.6	5972.0	5957.3	6016.1	6144.7	6174.0	6056.5	5935.3	5865.5	5839.8	5872.9
30°	6251.2	6203.4	6214.4	6276.9	6390.7	6486.2	6306.3	6177.7	6082.2	6078.5	6093.2
32.5°	6464.2	6500.9	6534.0	6592.7	6772.7	6846.2	6629.5	6420.1	6361.4	6328.3	6339.3
35°	6890.2	6857.2	6849.8	6908.6	7088.6	7209.8	6938.0	6754.4	6677.2	6750.7	6750.7
37.5°	7294.3	7202.4	7132.7	7209.8	7375.1	7389.8	7158.4	7059.2	7018.8	7103.3	7099.6
40°	7485.2	7477.9	7316.3	7360.4	7580.7	7602.8	7386.1	7268.5	7261.2	7371.4	7481.6
42.5°	7683.6	7613.8	7452.2	7481.6	7617.5	7624.8	7419.1	7386.1	7466.9	7573.4	7580.7
45°	7716.6	7657.9	7555.0	7481.6	7580.7	7602.8	7481.6	7503.6	7511.0	7639.5	7639.5
47.5°	7782.7	7775.4	7716.6	7661.5	7679.9	7661.5	7584.4	7617.5	7727.7	7790.1	7760.7
50°	7966.4	7889.3	7948.0	7900.3	7904.0	7955.4	7885.6	7918.6	7896.6	7841.5	7804.8
52.5°	8370.4	8333.7	8385.1	8418.1	8454.9	8572.4	8491.6	8315.3	8150.0	8003.1	7999.4
55°	8961.7	8987.4	9086.6	9255.6	9398.8	9586.1	9196.8	8774.4	8510.0	8278.6	8293.3
57.5°	9520.0	9501.6	9637.5	10023.2	10441.9	10537.4	9773.4	9171.1	8741.4	8594.4	8532.0
59°	9071.9	9160.1	9468.6	9898.3	10555.7	10695.3	9696.3	8847.9	8392.4	8094.9	8146.4
60°	8366.7	8399.8	8675.2	9273.9	10162.7	10401.5	9178.4	8348.4	7742.3	7569.7	7646.9
62.5°	5913.3	5887.6	6085.9	6574.4	7371.4	7694.6	6824.1	6240.2	5858.2	5667.2	5711.3
65°	3144.0	3261.5	3342.3	3647.1	4069.5	4411.1	4051.1	3797.7	3584.7	3426.8	3423.1
67.5°	2122.9	2108.2	2126.6	2196.4	2339.6	2435.1	2427.7	2299.2	2280.8	2251.5	2284.5
70°	1788.7	1781.3	1748.3	1748.3	1777.7	1799.7	1825.4	1840.1	1869.5	1906.2	1902.5
72.5°	1450.8	1432.4	1410.4	1399.4	1436.1	1447.1	1480.2	1494.8	1520.6	1516.9	1549.9
75°	958.6	958.6	984.3	1013.7	1024.7	1046.8	1050.4	1094.5	1094.5	1101.9	1072.5
77.5°	536.2	521.5	539.9	569.3	595.0	635.4	675.8	708.9	727.2	719.9	719.9
80°	312.2	312.2	330.6	363.6	396.7	433.4	462.8	488.5	506.9	499.5	484.8
82.5°	194.7	194.7	213.0	246.1	271.8	293.8	334.2	367.3	389.3	382.0	363.6
85°	99.2	99.2	121.2	143.2	176.3	191.0	187.3	172.6	169.0	150.6	150.6
87.5°	25.7	25.7	36.7	40.4	33.1	36.7	36.7	36.7	36.7	36.7	40.4
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)