

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: P458025

Luminaire Tested: **GALN-SA9B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42292 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 364
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

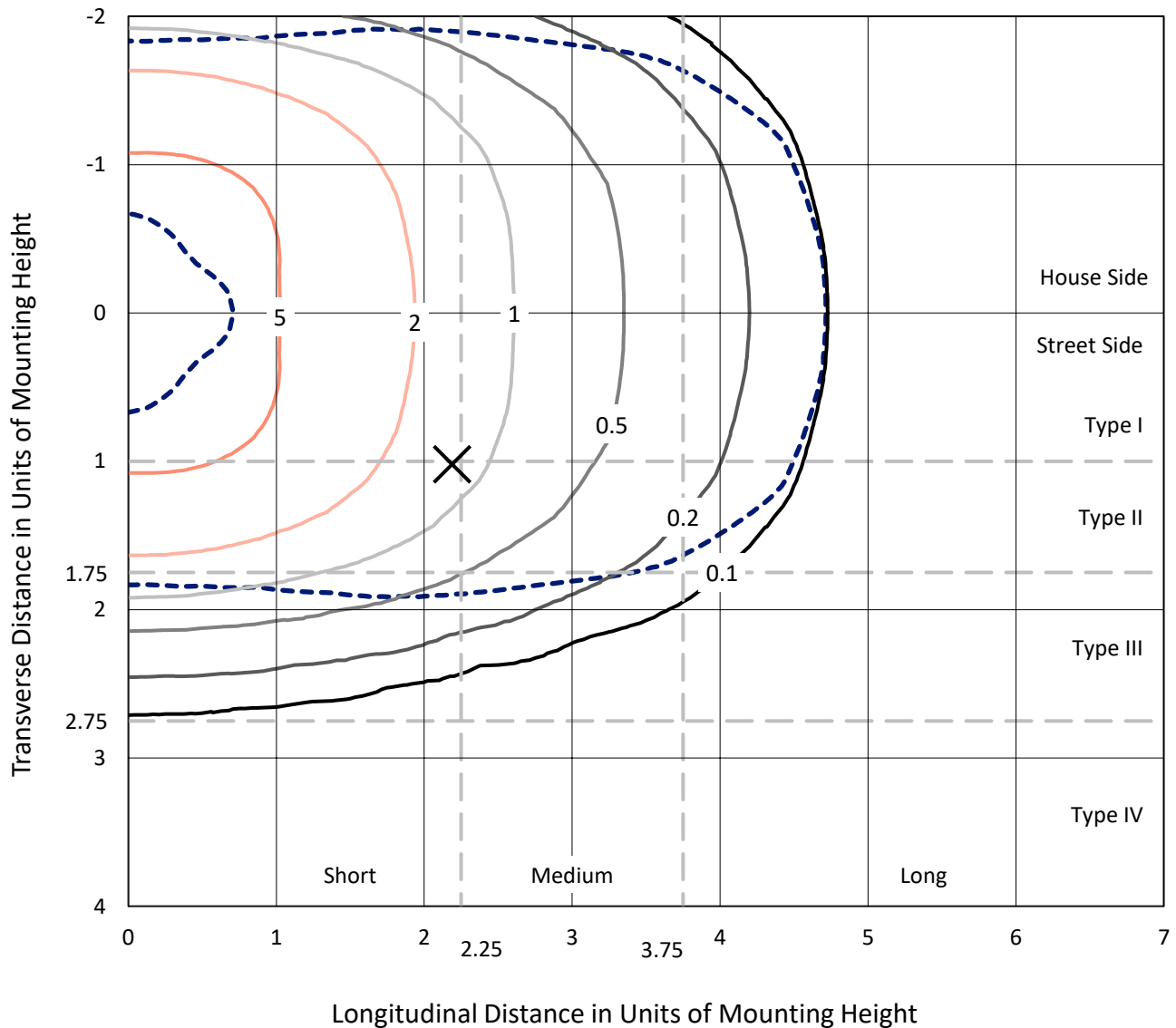


REPORT NUMBER: P458025

CATALOG NUMBER: GALN-SA9B-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

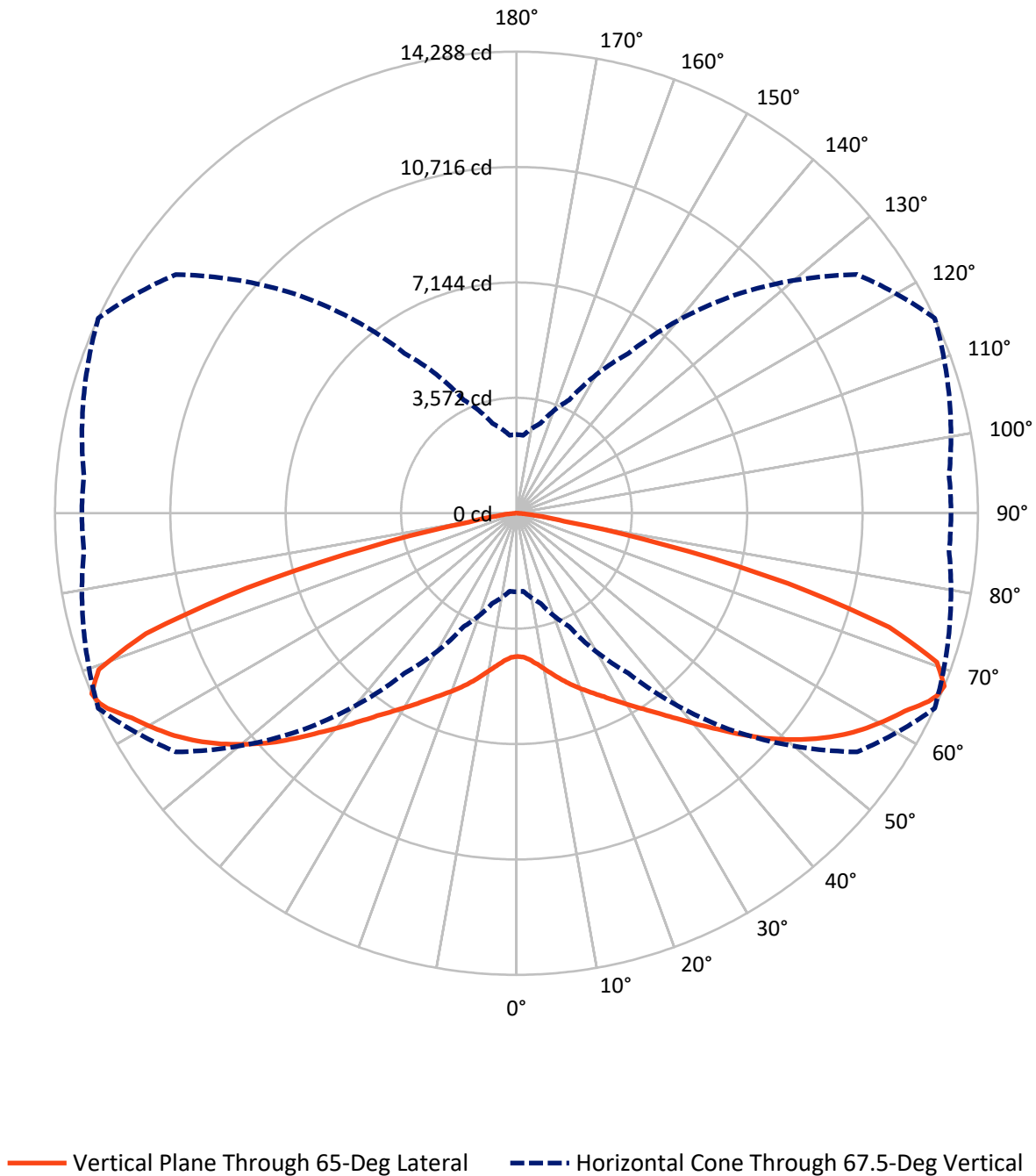


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

REPORT NUMBER: P458025

CATALOG NUMBER: GALN-SA9B-830-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21146.0	0.0	21146.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21146.0	0.0	21146.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42292.0	0.0	42292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	1.0
10°-20°	1462.2	3.5
20°-30°	2860.2	6.8
30°-40°	4864.9	11.5
40°-50°	7699.6	18.2
50°-60°	10209.5	24.1
60°-70°	9630.7	22.8
70°-80°	4761.0	11.3
80°-90°	366.9	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°	42292.0	100.0
0°-180°	42292.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458025

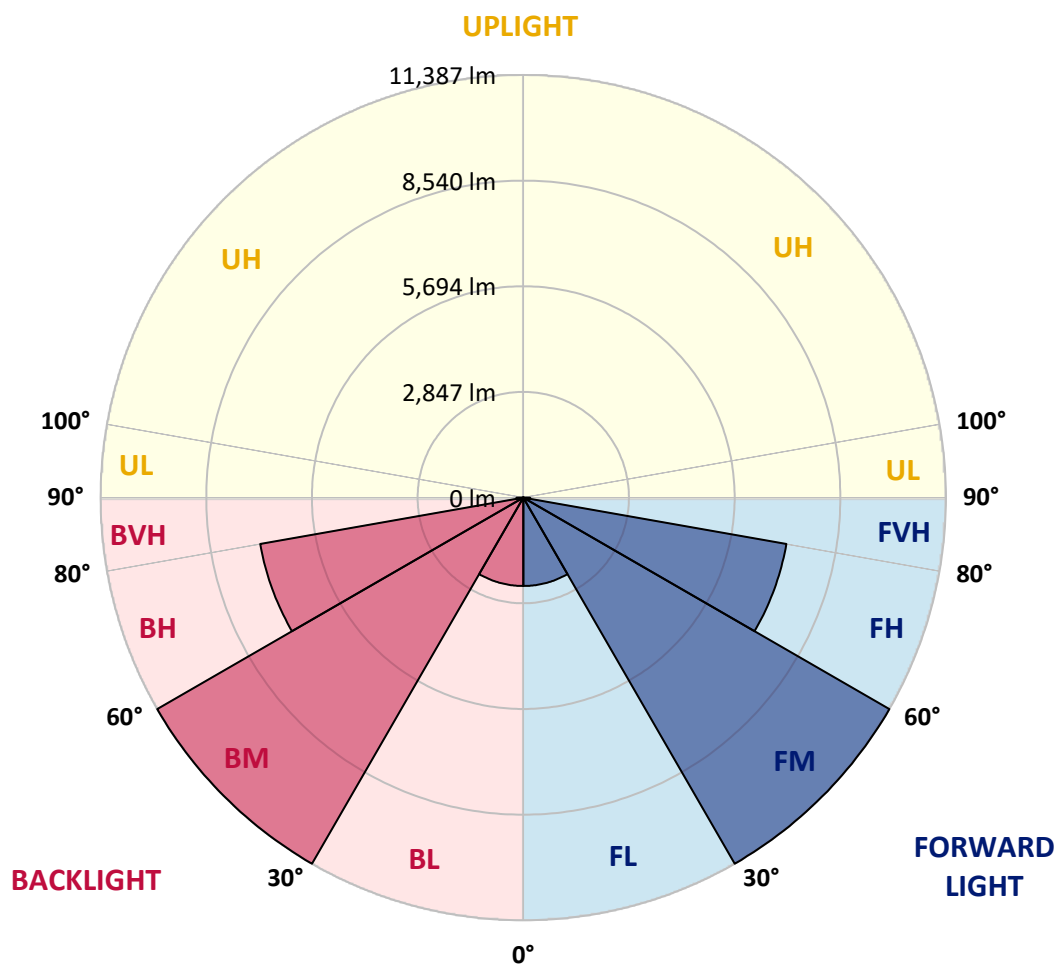
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2379.7	5.6			
FM	(30°-60°)	11387.0	26.9			
FH	(60°-80°)	7195.9	17.0			G3/7500
FVH	(80°-90°)	183.5	0.4			G2/225
BL	(0°-30°)	2379.7	5.6	B3/2500		
BM	(30°-60°)	11387.0	26.9	B5		
BH	(60°-80°)	7195.9	17.0	B5		G5
BVH	(80°-90°)	183.5	0.4			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 III Short





REPORT NUMBER: P458025

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4429.7	4429.7	4429.7	4429.7	4429.7	4429.7	4429.7	4429.7	4429.7	4429.7	4429.7
2.5°	4407.1	4411.6	4416.1	4422.9	4432.0	4445.6	4454.6	4461.4	4479.6	4481.8	4479.6
5°	4391.2	4395.7	4407.1	4427.4	4456.9	4497.7	4529.4	4567.9	4597.4	4617.8	4613.2
7.5°	4388.9	4398.0	4416.1	4459.2	4515.8	4586.1	4658.6	4724.3	4780.9	4826.2	4819.4
10°	4425.2	4436.5	4466.0	4529.4	4617.8	4719.7	4821.7	4919.1	5000.7	5059.6	5080.0
12.5°	4486.4	4495.4	4549.8	4645.0	4771.9	4898.7	5014.3	5134.4	5247.7	5347.4	5347.4
15°	4592.9	4608.7	4676.7	4814.9	4971.2	5118.5	5236.4	5363.2	5485.6	5598.9	5632.9
17.5°	4740.1	4762.8	4864.8	5041.5	5240.9	5376.8	5487.9	5592.1	5698.6	5807.3	5823.2
20°	4941.8	4964.5	5100.4	5313.4	5549.0	5712.2	5787.0	5811.9	5864.0	5968.2	5981.8
22.5°	5216.0	5238.6	5390.4	5630.6	5893.4	6070.2	6101.9	6043.0	6029.4	6111.0	6120.0
25°	5526.4	5546.8	5721.2	5979.5	6251.4	6444.0	6435.0	6290.0	6208.4	6258.2	6271.8
27.5°	5875.3	5904.8	6081.5	6348.9	6643.4	6813.4	6786.2	6575.5	6401.0	6391.9	6396.5
30°	6321.7	6353.4	6521.1	6777.1	7067.1	7223.5	7166.8	6883.6	6614.0	6523.3	6523.3
32.5°	6793.0	6872.3	7042.2	7309.6	7536.2	7649.5	7563.4	7223.5	6865.5	6738.6	6731.8
35°	7407.0	7450.1	7617.7	7878.3	8048.3	8136.6	7971.2	7606.4	7194.0	7044.5	7024.1
37.5°	8007.5	8043.7	8238.6	8487.8	8694.0	8689.5	8465.2	8061.9	7601.9	7434.2	7420.6
40°	8621.5	8660.0	8882.1	9110.9	9317.1	9299.0	9027.1	8576.2	8086.8	7898.7	7935.0
42.5°	9154.0	9197.0	9448.5	9774.8	9960.6	9956.1	9641.1	9133.6	8623.8	8456.1	8487.8
45°	9638.9	9677.4	9969.7	10343.6	10615.5	10649.4	10305.0	9768.0	9244.6	9029.4	9038.4
47.5°	9981.0	10053.5	10359.4	10787.7	11157.0	11277.1	10939.5	10413.8	9811.1	9586.8	9600.4
50°	10241.6	10286.9	10620.0	11107.1	11573.9	11823.1	11551.2	11012.0	10377.5	10139.6	10171.3
52.5°	10273.3	10327.7	10690.2	11252.2	11850.3	12228.7	12095.0	11596.6	10955.3	10710.6	10778.6
55°	10015.0	10046.7	10479.5	11161.5	11959.1	12530.1	12564.1	12140.4	11505.9	11320.1	11365.4
57.5°	9278.6	9360.2	9908.5	10737.8	11809.5	12691.0	12915.3	12634.3	12063.3	11879.8	11952.3
60°	8070.9	8152.5	8703.1	9754.4	11245.4	12616.2	13205.3	13071.6	12568.6	12421.3	12459.8
62.5°	6324.0	6317.2	6999.2	8288.4	10123.8	12249.1	13420.6	13493.1	13067.1	12881.3	12940.2
65°	4098.9	4119.3	4778.7	6167.6	8431.2	11315.6	13468.1	14030.1	13556.5	13275.5	13318.6
66°	3296.8	3358.0	3917.6	5197.8	7567.9	10703.8	13325.4	14188.7	13706.1	13366.2	13386.6
67.5°	2433.5	2422.2	2882.1	3870.1	6043.0	9541.4	12879.0	14288.4	13876.0	13447.8	13456.8
70°	1389.0	1386.7	1549.8	2125.4	3552.8	6718.2	10855.6	13810.3	14220.4	13742.3	13717.4
72.5°	1015.1	1008.3	1031.0	1173.7	1733.4	3392.0	7488.6	12070.1	14043.7	13694.7	13624.5
75°	852.0	847.4	842.9	861.0	972.0	1536.2	3974.3	8682.7	12185.7	12854.1	12781.6
77.5°	695.6	695.6	697.9	693.3	697.9	808.9	1647.3	4654.0	7420.6	8283.9	8485.6
80°	543.8	541.5	580.1	564.2	527.9	518.9	729.6	1497.7	2463.0	2449.4	2021.1
82.5°	401.1	373.9	441.8	430.5	389.7	330.8	426.0	639.0	822.5	534.7	396.5
85°	253.8	251.5	312.7	285.5	237.9	156.3	203.9	274.2	339.9	206.2	167.7
87.5°	45.3	43.1	99.7	72.5	72.5	45.3	56.6	74.8	111.0	77.0	56.6
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)