

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: P458486

Luminaire Tested: **GALN-SA9D-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58326 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 552
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



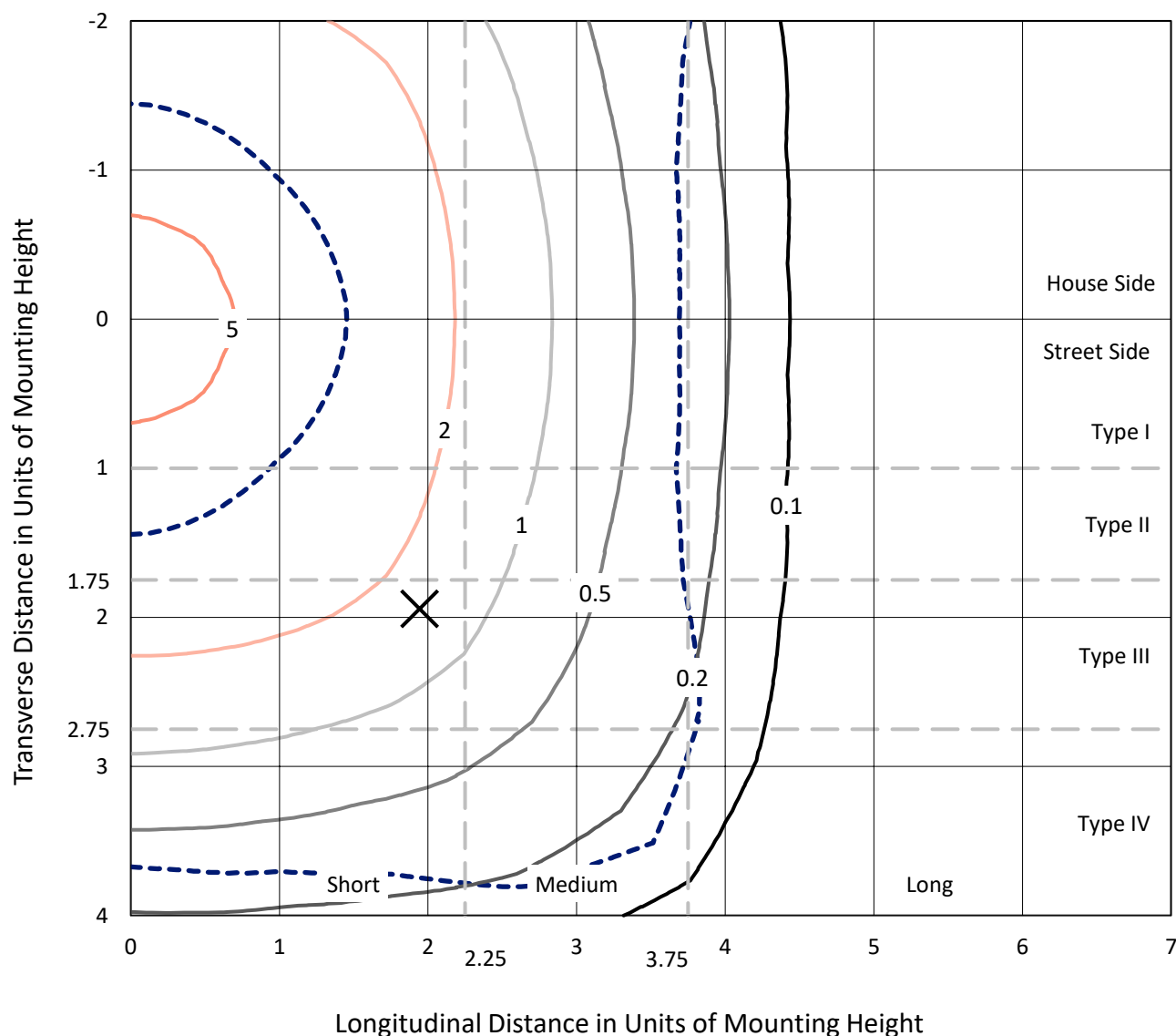
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

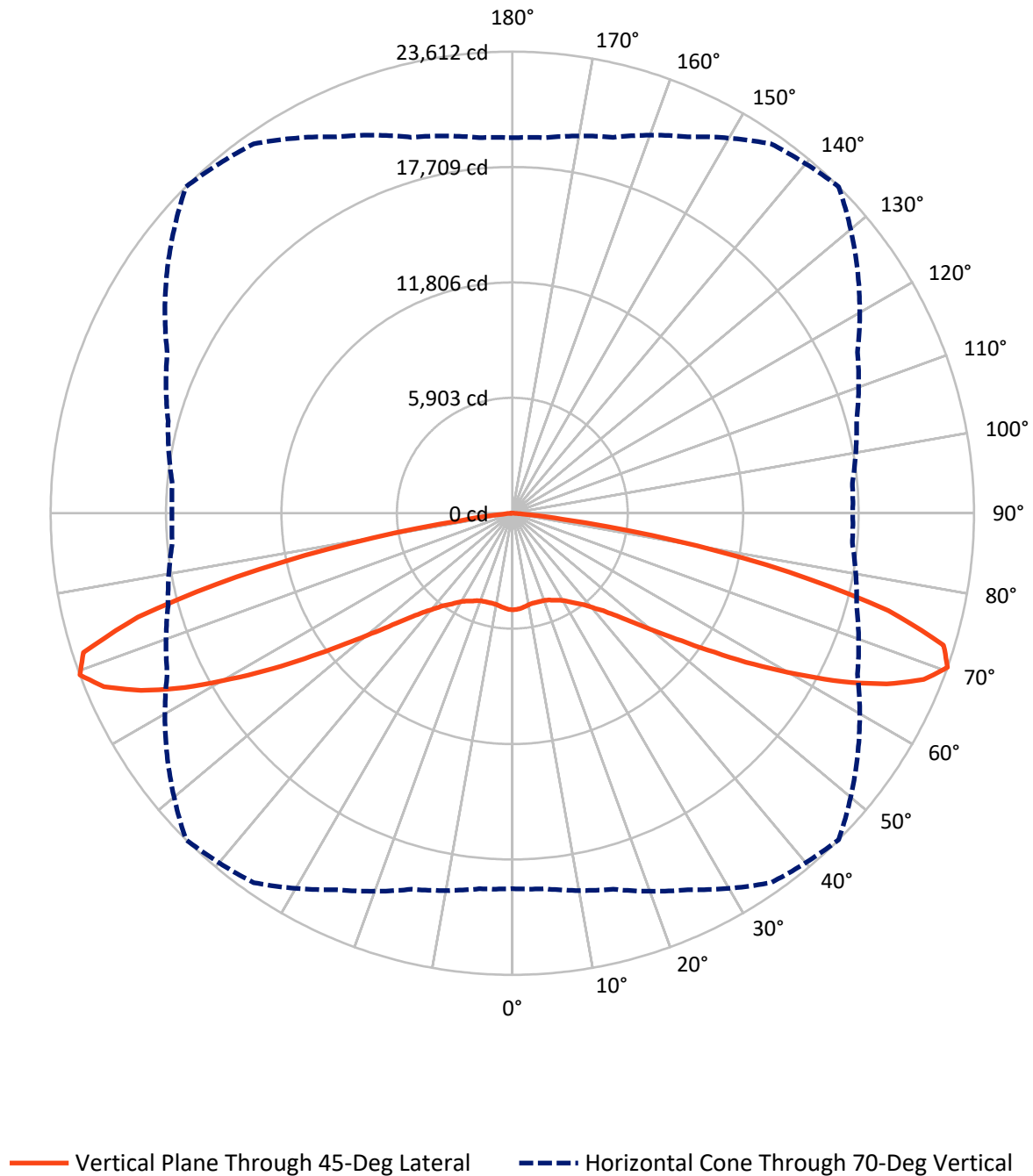


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29163.0	0.0	29163.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29163.0	0.0	29163.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	58326.0	0.0	58326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.8	0.8
10°-20°	1351.9	2.3
20°-30°	2303.4	3.9
30°-40°	3570.2	6.1
40°-50°	6009.2	10.3
50°-60°	10933.4	18.7
60°-70°	18510.0	31.7
70°-80°	14327.5	24.6
80°-90°	858.5	1.5
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°	58326.0	100.0
0°-180°	58326.0	100.0

Coefficient of Utilization



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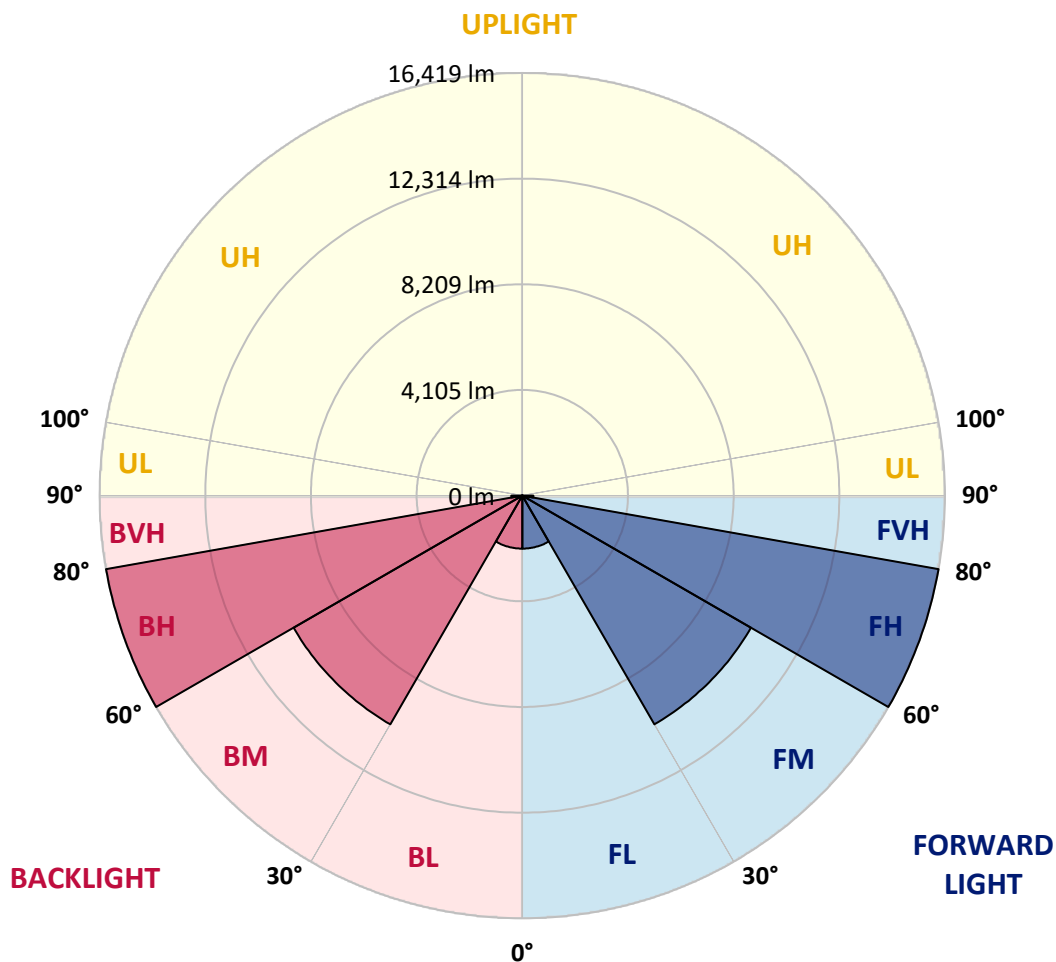
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2058.6	3.5			
FM	(30°-60°)	10256.4	17.6			
FH	(60°-80°)	16418.8	28.1			G5
FVH	(80°-90°)	429.3	0.7			G3/500
BL	(0°-30°)	2058.6	3.5	B3/2500		
BM	(30°-60°)	10256.4	17.6	B5		
BH	(60°-80°)	16418.8	28.1	B5		G5
BVH	(80°-90°)	429.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4938.0	4938.0	4938.0	4938.0	4938.0	4938.0	4938.0	4938.0	4938.0	4938.0	4938.0
2.5°	4925.7	4928.8	4928.8	4922.6	4919.5	4919.5	4916.4	4916.4	4925.7	4928.8	4931.8
5°	4882.6	4882.6	4882.6	4879.5	4873.3	4873.3	4867.2	4867.2	4870.2	4879.5	4873.3
7.5°	4824.0	4830.2	4830.2	4817.9	4808.6	4808.6	4805.5	4808.6	4811.7	4821.0	4817.9
10°	4805.5	4808.6	4793.2	4771.7	4756.3	4747.0	4750.1	4756.3	4771.7	4777.8	4780.9
12.5°	4817.9	4817.9	4790.1	4759.3	4731.6	4719.3	4716.2	4737.8	4765.5	4784.0	4790.1
15°	4833.3	4827.1	4793.2	4753.2	4725.5	4722.4	4719.3	4734.7	4774.7	4811.7	4814.8
17.5°	4842.5	4839.4	4796.3	4747.0	4731.6	4731.6	4728.5	4740.9	4784.0	4830.2	4833.3
20°	4873.3	4864.1	4814.8	4762.4	4750.1	4756.3	4747.0	4762.4	4808.6	4864.1	4876.4
22.5°	4934.9	4925.7	4876.4	4824.0	4817.9	4817.9	4814.8	4830.2	4879.5	4938.0	4947.3
25°	5008.9	4999.6	4953.4	4916.4	4922.6	4934.9	4928.8	4931.8	4971.9	5021.2	5036.6
27.5°	5107.4	5092.0	5052.0	5021.2	5039.7	5039.7	5039.7	5036.6	5061.2	5107.4	5122.8
30°	5227.6	5221.4	5178.3	5175.2	5190.6	5175.2	5175.2	5178.3	5181.4	5224.5	5239.9
32.5°	5384.7	5372.4	5350.8	5344.6	5387.8	5400.1	5357.0	5316.9	5338.5	5381.6	5390.8
35°	5643.4	5625.0	5594.2	5560.3	5594.2	5652.7	5560.3	5529.5	5584.9	5643.4	5649.6
37.5°	5994.6	5985.4	5936.1	5874.5	5871.4	5933.0	5837.5	5834.4	5939.2	6010.0	6019.3
40°	6435.1	6444.4	6382.8	6324.2	6293.4	6342.7	6268.8	6296.5	6398.2	6478.3	6472.1
42.5°	7054.3	7020.4	6924.9	6869.5	6835.6	6817.1	6798.6	6841.7	6955.7	7042.0	7109.7
45°	7778.2	7765.9	7645.8	7578.0	7504.1	7476.3	7470.2	7547.2	7685.8	7790.5	7799.8
47.5°	8597.6	8569.9	8492.9	8422.0	8394.3	8360.4	8329.6	8388.1	8526.8	8600.7	8622.3
50°	9441.7	9447.8	9447.8	9435.5	9463.2	9469.4	9386.2	9407.8	9484.8	9478.6	9472.5
52.5°	10405.9	10439.7	10599.9	10615.3	10747.8	10837.1	10686.2	10596.9	10569.1	10402.8	10415.1
55°	11539.5	11570.3	11810.6	12050.8	12408.2	12559.1	12241.8	11964.6	11767.4	11514.8	11527.2
57.5°	12953.4	12968.8	13196.8	13658.9	14225.7	14579.9	14022.3	13474.0	13073.6	12833.3	12737.8
60°	14475.2	14490.6	14823.3	15387.0	16268.0	16699.3	16009.3	15112.8	14607.6	14241.1	14265.7
62.5°	16301.9	16363.5	16662.3	17438.6	18507.5	18991.2	18076.3	16878.0	16194.1	15738.2	15756.7
65°	18258.0	18362.7	18689.3	19542.6	20528.3	21048.9	19927.6	18544.5	17694.3	17136.7	17195.2
67.5°	19527.2	19619.6	20090.9	21033.5	22262.6	22693.9	21246.1	19635.0	18572.2	17906.8	17783.6
70°	19203.7	19280.7	19909.1	21246.1	23066.6	23611.9	21560.3	19474.8	18224.1	17457.1	17407.8
72.5°	16951.9	16791.7	17709.7	19628.8	22148.7	23063.6	20571.4	17786.7	16212.6	15424.0	15331.6
75°	11234.5	11582.6	12938.0	15199.1	18738.6	19872.2	17558.7	14281.1	12300.4	11644.2	11542.6
77.5°	3755.1	4023.1	5227.6	8616.1	12774.8	14478.3	12793.2	9340.0	6607.6	5323.1	5347.7
80°	995.0	982.7	1272.2	2368.9	5520.2	8385.1	6425.9	3163.7	1731.2	1253.8	1189.1
82.5°	357.3	400.5	514.4	656.1	1463.2	2606.1	1839.0	887.2	650.0	480.6	465.2
85°	157.1	154.0	221.8	261.8	366.6	486.7	431.3	375.8	329.6	218.7	203.3
87.5°	33.9	33.9	52.4	40.0	64.7	64.7	80.1	95.5	98.6	64.7	52.4
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)