

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: P456628

Luminaire Tested: **GALN-SA7D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44907 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 433
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

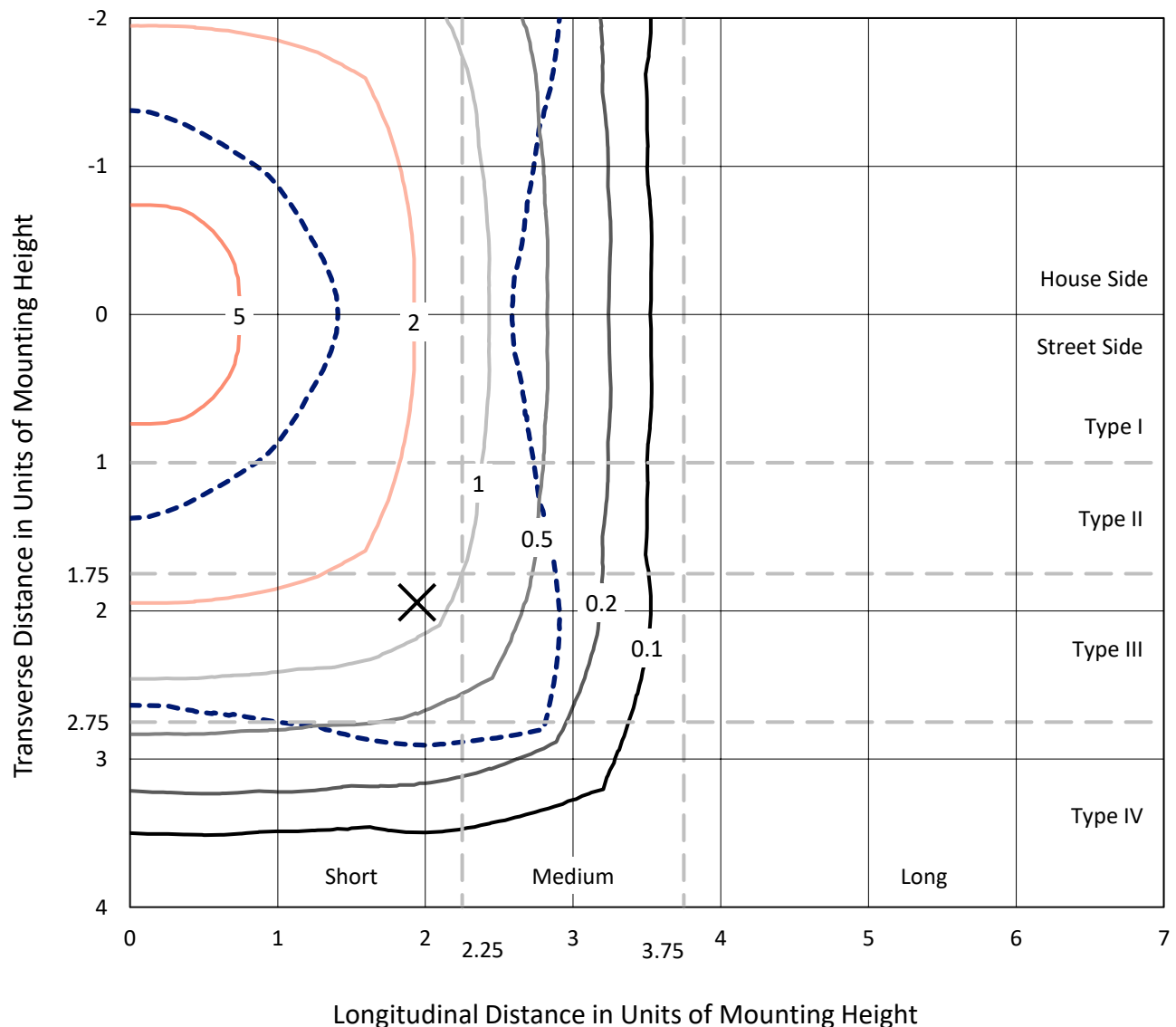


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



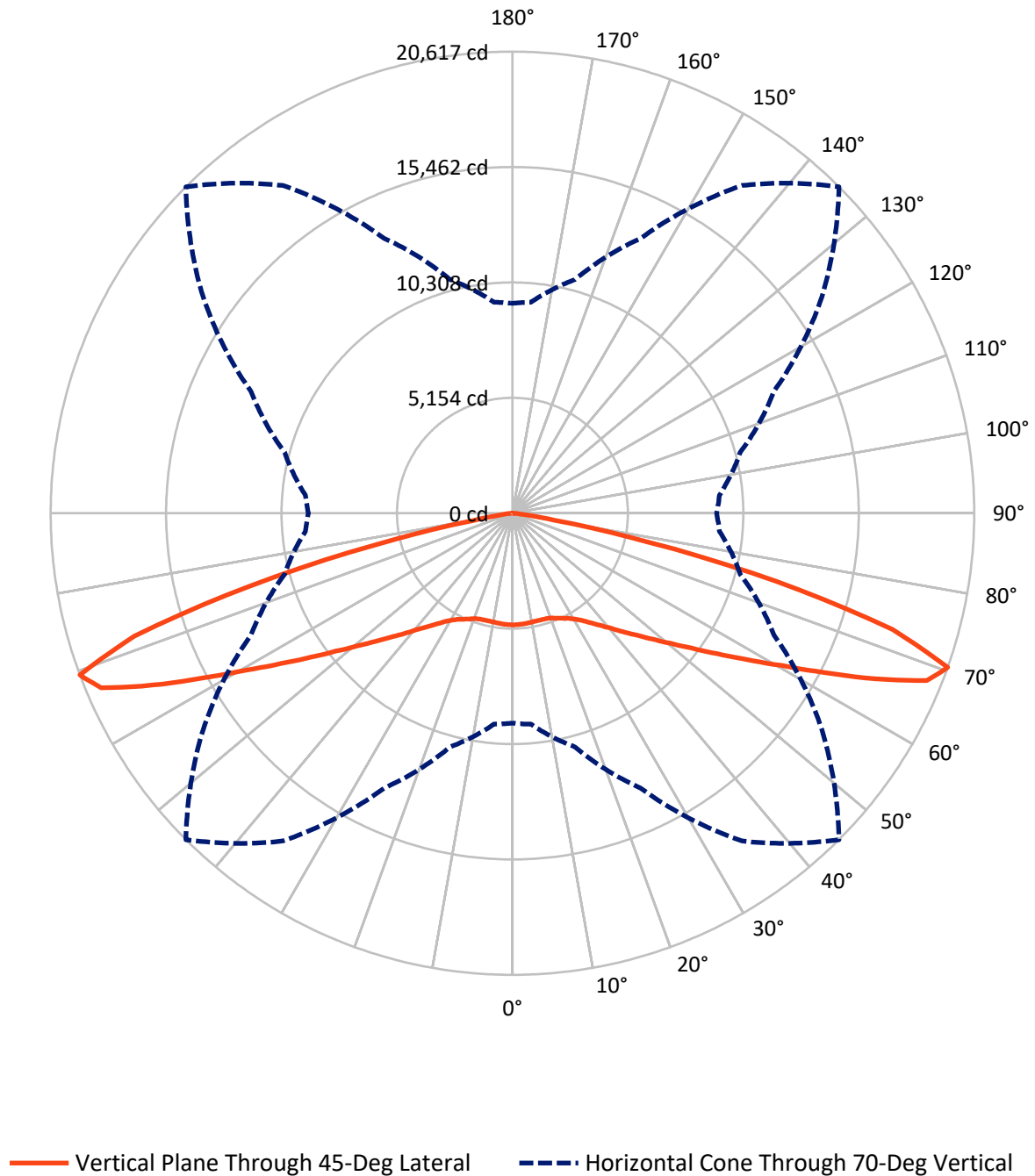
Based on 25 foot mounting height. Maximum calculated value = 8 fc

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	22453.5	0.0	22453.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22453.5	0.0	22453.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44907.0	0.0	44907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.9	1.1
10°-20°	1387.6	3.1
20°-30°	2373.3	5.3
30°-40°	3766.9	8.4
40°-50°	6077.0	13.5
50°-60°	9887.5	22.0
60°-70°	14333.3	31.9
70°-80°	6357.7	14.2
80°-90°	250.8	0.6
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°	44907.0	100.0
0°-180°	44907.0	100.0

Coefficient of Utilization



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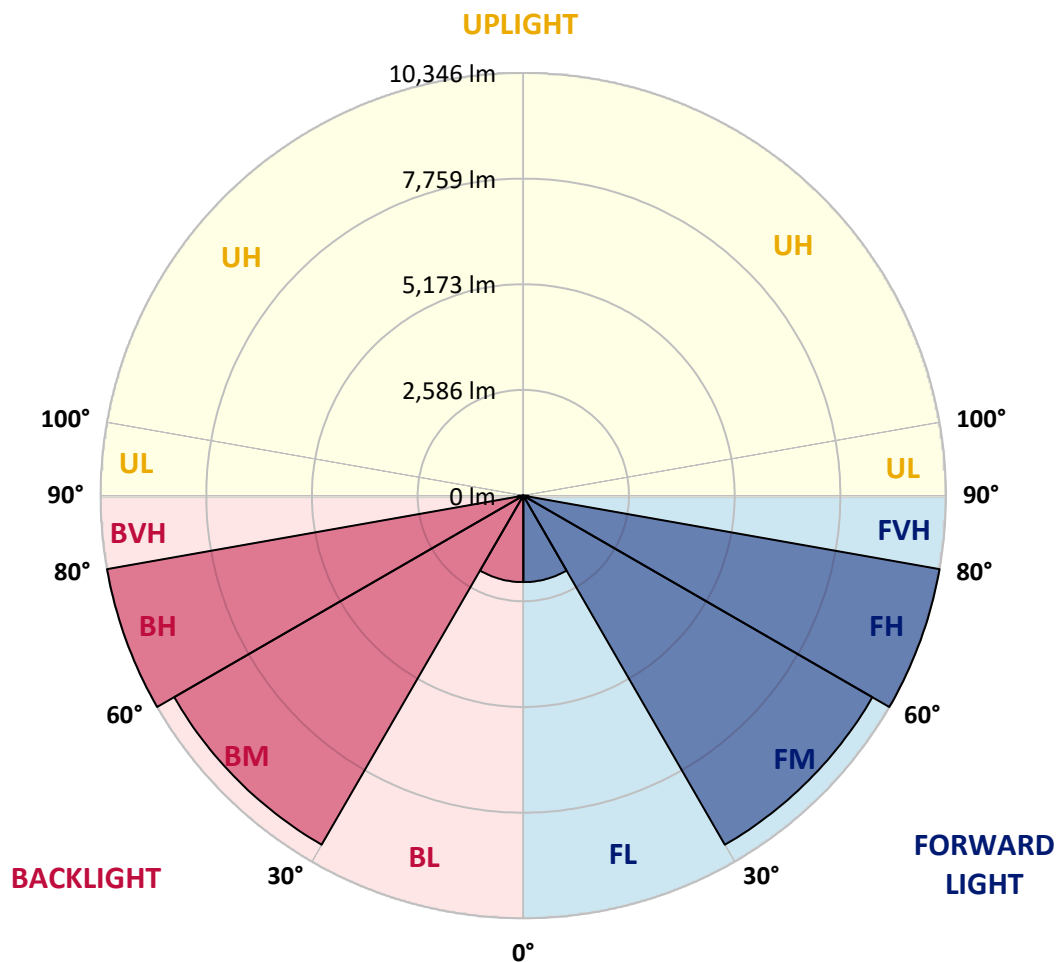
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2116.9	4.7			
FM	(30°-60°)	9865.7	22.0			
FH	(60°-80°)	10345.5	23.0			G4/12000
FVH	(80°-90°)	125.4	0.3			G2/225
BL	(0°-30°)	2116.9	4.7	B3/2500		
BM	(30°-60°)	9865.7	22.0	B5		
BH	(60°-80°)	10345.5	23.0	B5		G4/12000
BVH	(80°-90°)	125.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7
2.5°	4986.7	4991.4	4984.3	4979.6	4977.2	4977.2	4974.9	4977.2	4991.4	4993.8	4986.7
5°	4972.5	4977.2	4974.9	4970.1	4967.8	4967.8	4965.4	4963.0	4974.9	4979.6	4977.2
7.5°	4953.6	4955.9	4953.6	4951.2	4953.6	4951.2	4944.1	4939.4	4948.8	4948.8	4946.5
10°	4920.4	4925.2	4922.8	4925.2	4929.9	4929.9	4920.4	4911.0	4913.3	4908.6	4908.6
12.5°	4880.2	4887.3	4889.7	4899.1	4911.0	4925.2	4903.9	4882.6	4877.8	4875.5	4873.1
15°	4854.2	4861.3	4870.7	4880.2	4901.5	4932.3	4901.5	4868.4	4858.9	4849.4	4844.7
17.5°	4847.1	4856.5	4870.7	4884.9	4913.3	4944.1	4918.1	4884.9	4861.3	4847.1	4842.3
20°	4866.0	4873.1	4894.4	4920.4	4960.7	4991.4	4965.4	4929.9	4894.4	4873.1	4866.0
22.5°	4903.9	4915.7	4941.7	4989.1	5045.9	5090.8	5055.3	4996.2	4939.4	4911.0	4901.5
25°	4986.7	4996.2	5026.9	5090.8	5157.1	5199.7	5161.8	5093.2	5015.1	4977.2	4965.4
27.5°	5112.1	5126.3	5159.5	5235.2	5289.7	5313.3	5287.3	5240.0	5183.1	5142.9	5133.4
30°	5289.7	5306.2	5355.9	5436.4	5471.9	5486.1	5474.3	5443.5	5403.3	5360.7	5351.2
32.5°	5528.7	5538.2	5595.0	5670.7	5703.8	5708.6	5694.4	5680.2	5613.9	5542.9	5538.2
35°	5796.1	5812.7	5881.3	5971.3	6002.0	6004.4	5976.0	5954.7	5876.6	5819.8	5819.8
37.5°	6151.1	6158.2	6224.5	6326.3	6359.4	6350.0	6335.7	6316.8	6234.0	6160.6	6163.0
40°	6567.7	6581.9	6638.7	6757.0	6757.0	6745.2	6754.7	6740.5	6657.6	6586.6	6589.0
42.5°	7062.3	7069.4	7138.1	7263.5	7254.0	7230.4	7239.8	7220.9	7168.8	7088.4	7060.0
45°	7590.1	7618.5	7736.9	7857.6	7838.6	7762.9	7800.8	7796.0	7748.7	7628.0	7635.1
47.5°	8226.8	8274.1	8387.7	8532.1	8510.8	8392.4	8435.0	8463.4	8397.2	8264.6	8241.0
50°	8943.9	8974.7	9142.7	9277.6	9258.7	9133.2	9230.3	9235.0	9069.3	8882.4	8882.4
52.5°	9708.3	9739.1	9966.3	10177.0	10188.8	10006.6	10084.7	10079.9	9810.1	9564.0	9516.6
55°	10565.1	10579.3	10872.8	11182.8	11249.1	11071.6	11081.1	10986.4	10636.1	10349.7	10323.7
57.5°	11450.3	11502.3	11826.6	12228.9	12425.4	12316.5	12266.8	12013.5	11675.1	11346.1	11329.6
60°	12430.1	12432.5	12853.7	13329.5	13727.1	13800.4	13596.9	13258.4	12820.6	12385.1	12366.2
62.5°	13109.3	13211.1	13743.6	14548.3	15260.7	15672.5	15135.3	14425.3	13563.8	12860.8	12789.8
65°	13249.0	13317.6	14129.4	15492.6	16948.2	17835.7	16593.2	15083.2	13613.5	12676.2	12628.9
67.5°	12120.1	12193.4	13286.9	15379.0	18131.6	19951.6	17539.9	14766.1	12770.9	11611.2	11518.9
70°	9374.6	9457.5	10808.9	13537.7	17868.8	20616.6	16865.4	12879.8	10532.0	9280.0	9111.9
72.5°	4984.3	5289.7	6444.6	9291.8	14503.4	17750.5	13828.8	9398.3	6792.5	5552.4	5329.9
75°	1820.0	1857.9	2501.6	4120.5	8437.4	12172.1	8761.7	4482.6	2577.4	1990.4	1888.7
77.5°	752.6	750.3	823.6	1244.9	3064.9	6234.0	3419.9	1315.9	821.3	759.7	750.3
80°	444.9	444.9	489.9	518.3	807.1	1881.6	901.7	587.0	492.3	449.7	456.8
82.5°	198.8	210.6	310.0	326.6	390.5	515.9	435.5	373.9	321.9	222.5	201.2
85°	108.9	94.7	163.3	170.4	187.0	191.7	205.9	203.5	187.0	108.9	111.2
87.5°	21.3	26.0	47.3	35.5	40.2	35.5	47.3	66.3	68.6	37.9	30.8
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)