

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: P651556

Luminaire Tested: **GALN-SA8D-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33951.2 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

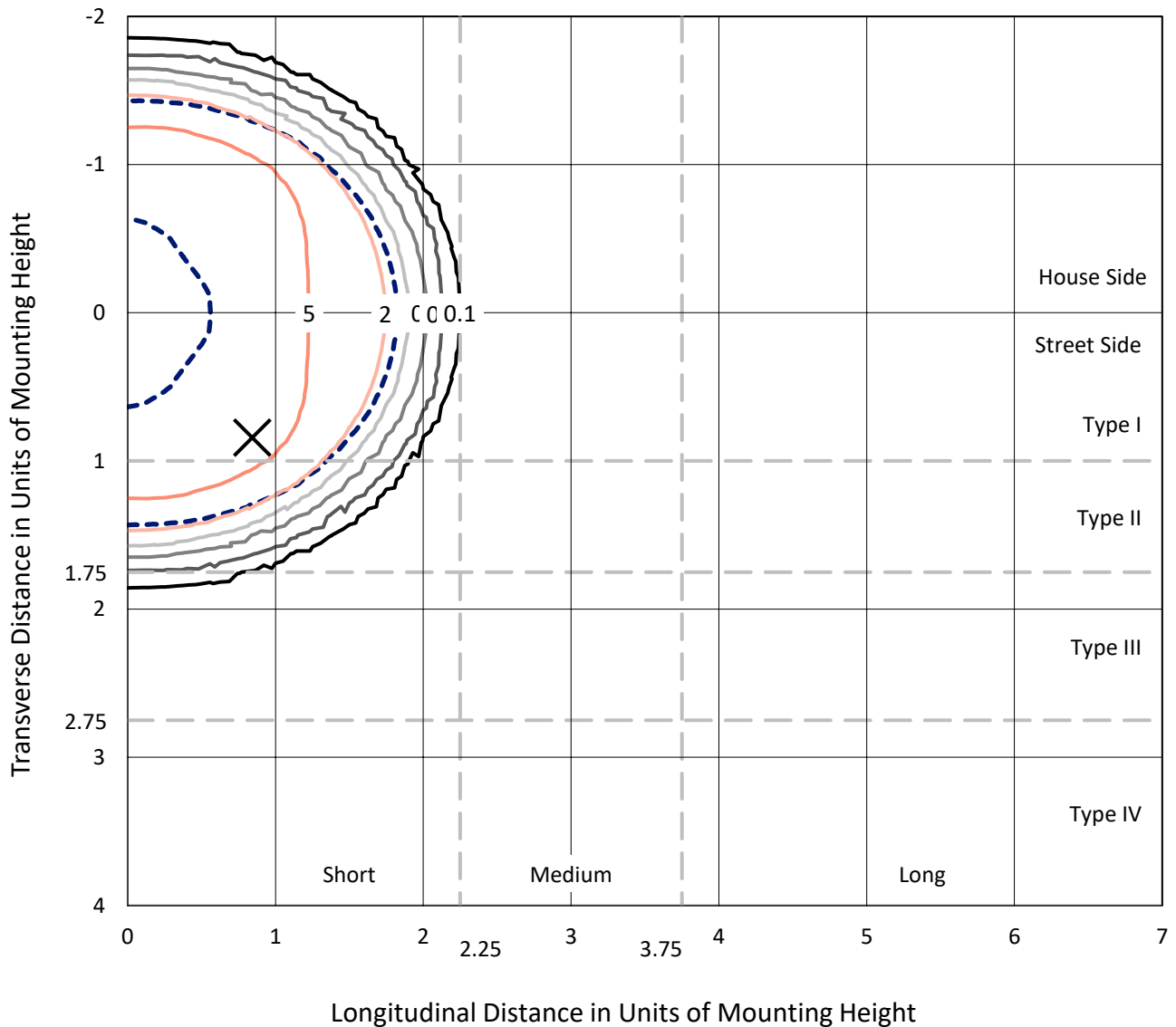
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

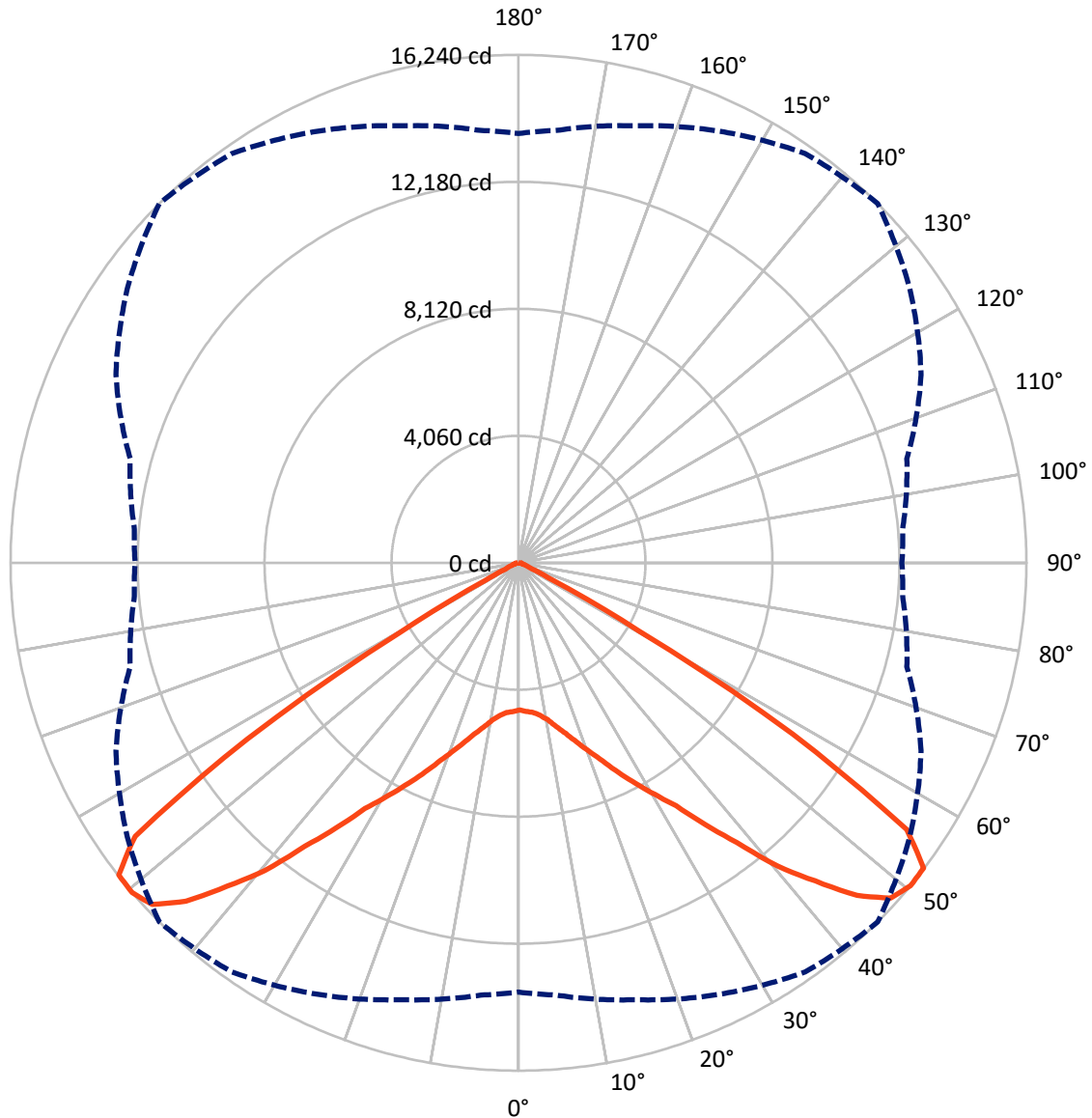
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16975.6	0.0	16975.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16975.6	0.0	16975.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	33951.2	0.0	33951.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.3	1.4
10°-20°	1613.9	4.8
20°-30°	3296.3	9.7
30°-40°	6286.0	18.5
40°-50°	10592.8	31.2
50°-60°	10102.2	29.8
60°-70°	1410.2	4.2
70°-80°	134.9	0.4
80°-90°	46.6	0.1
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°	33951.2	100.0
0°-180°	33951.2	100.0



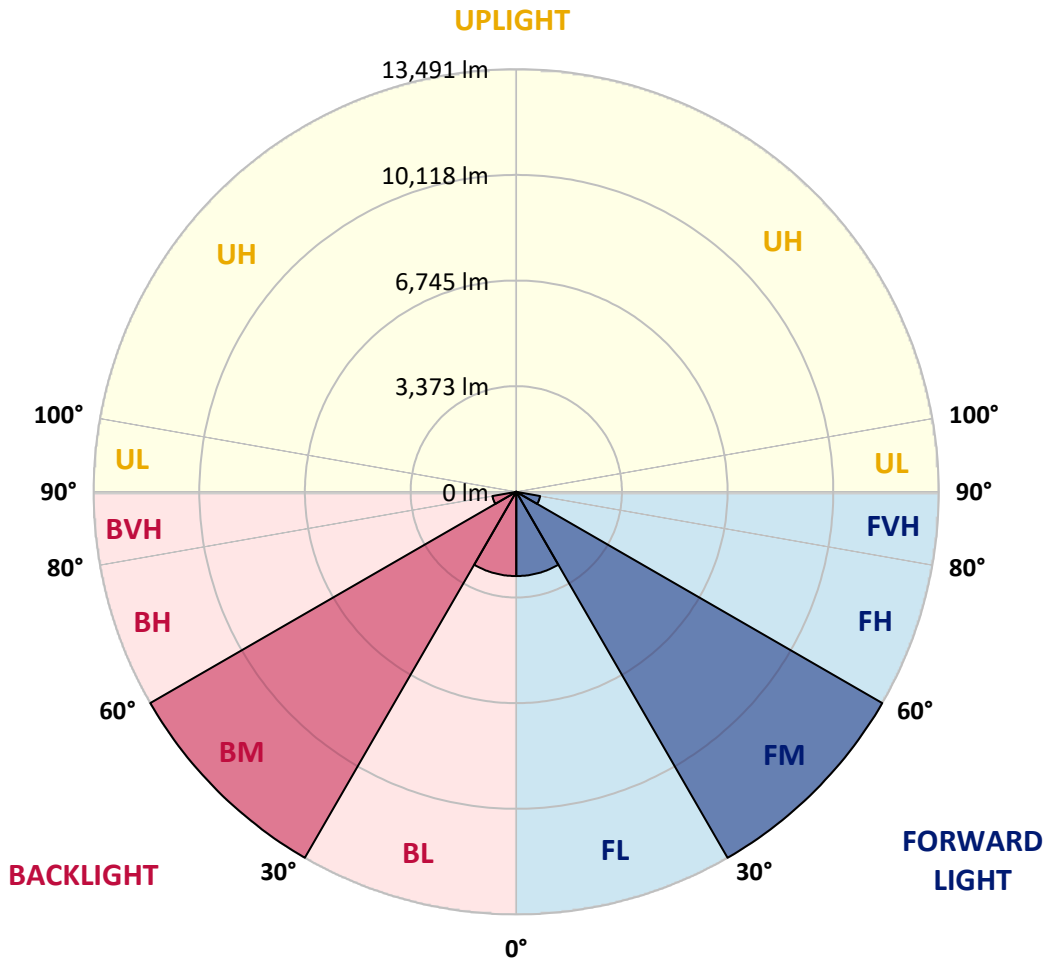
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.2	7.9			
FM (30°-60°)	13490.5	39.7			
FH (60°-80°)	772.5	2.3			G1/1800
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	2689.2	7.9	B4/5000		
BM (30°-60°)	13490.5	39.7	B5		
BH (60°-80°)	772.5	2.3	B2/1000		G1/1800
BVH (80°-90°)	23.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0
2.5°	4689.8	4689.8	4684.1	4729.8	4707.0	4758.4	4752.7	4769.8	4786.9	4781.3	4826.9
5°	4649.8	4644.1	4644.1	4695.6	4746.9	4804.0	4855.5	4889.7	4946.8	4946.8	5004.0
7.5°	4689.8	4661.2	4701.3	4724.1	4821.2	4918.3	5004.0	5072.6	5203.9	5249.6	5232.4
10°	4701.3	4735.5	4764.1	4832.6	4952.6	5101.1	5175.3	5346.7	5495.3	5598.1	5620.9
12.5°	4775.5	4826.9	4906.9	5072.6	5181.1	5375.3	5478.1	5643.8	5849.4	5963.7	6043.7
15°	4918.3	4935.4	5038.3	5249.6	5483.8	5660.9	5820.9	5940.8	6140.7	6272.1	6277.8
17.5°	5101.1	5175.3	5318.1	5518.1	5763.7	6026.5	6152.2	6283.5	6357.8	6534.9	6574.9
20°	5466.7	5478.1	5615.2	5878.0	6186.5	6426.3	6517.8	6586.3	6557.8	6740.5	6774.8
22.5°	5809.5	5820.9	5992.2	6346.4	6677.7	6883.3	6923.4	6883.3	6797.6	6929.1	6940.4
25°	6157.9	6260.7	6386.4	6740.5	7151.9	7426.0	7431.7	7323.2	7146.1	7168.9	7226.1
27.5°	6700.6	6774.8	6906.2	7231.8	7683.0	7991.5	7940.1	7808.8	7580.3	7597.4	7580.3
30°	7334.6	7403.2	7511.7	7928.7	8260.0	8597.0	8671.3	8545.7	8202.9	8128.6	8214.3
32.5°	8100.1	8197.2	8397.1	8779.9	9059.8	9265.4	9316.8	9271.1	8951.2	8922.7	8979.8
35°	9031.2	9162.6	9345.4	9682.4	9910.8	10282.2	10282.2	10128.0	9836.6	9870.9	9865.2
37.5°	10013.7	10207.9	10493.6	10836.3	11144.8	11344.7	11281.8	11150.5	10859.2	10784.9	10859.2
40°	11247.5	11344.7	11704.5	12150.1	12527.1	12755.6	12487.2	12201.6	11504.6	11613.1	11813.1
42.5°	12372.9	12527.1	12801.3	13292.6	13721.0	13909.6	13589.6	13024.1	12184.4	12098.7	12247.2
45°	13332.5	13498.2	13858.1	14560.7	15012.0	15177.6	14469.3	13555.3	12595.7	12378.6	12441.4
47.5°	13972.4	14058.1	14560.7	15229.1	15640.3	16017.3	15000.6	13920.9	12789.9	12378.6	12355.7
50°	13726.7	13875.2	14463.6	15223.4	15971.7	16240.1	15269.0	14200.9	12852.8	12327.2	12258.7
52.5°	12190.1	12447.1	13104.0	14126.6	15257.6	16217.3	15640.3	14109.5	12829.9	12378.6	12481.4
55°	8482.8	8488.5	9288.3	10796.3	12795.6	15057.7	15097.7	14212.2	12978.4	12698.5	12704.2
57.5°	3410.3	3581.7	4192.8	5706.6	7551.7	10339.3	12292.9	13184.0	12995.6	12927.0	13104.0
60°	862.5	868.2	1056.8	1610.9	2656.2	4432.7	6437.8	8711.3	10030.9	10482.1	10545.0
62.5°	439.8	445.6	491.2	571.2	725.4	1188.2	2113.6	3353.2	4769.8	5489.5	5678.0
65°	359.9	359.9	388.5	428.4	434.1	457.0	548.4	782.6	1136.8	1291.0	1308.1
67.5°	274.2	274.2	297.0	319.9	331.4	325.6	314.2	325.6	394.2	377.0	365.6
70°	171.4	177.1	188.5	211.3	222.8	228.5	234.2	245.7	279.9	291.3	279.9
72.5°	102.9	102.9	108.6	125.6	142.8	154.2	171.4	182.8	199.9	228.5	222.8
75°	45.7	45.7	57.1	74.3	91.4	108.6	125.6	142.8	154.2	171.4	177.1
77.5°	11.4	17.2	28.6	51.4	68.5	91.4	114.2	131.4	142.8	142.8	137.1
80°	5.7	5.7	22.9	39.9	74.3	97.1	125.6	137.1	154.2	142.8	125.6
82.5°	5.7	5.7	22.9	39.9	68.5	97.1	131.4	148.5	160.0	142.8	119.9
85°	0.0	5.7	17.2	34.3	57.1	68.5	57.1	39.9	22.9	22.9	17.2
87.5°	0.0	0.0	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)