

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: P651601

Luminaire Tested: **GALN-SA9D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40517.7 lumens
Efficiency: N/A
Efficacy: 73.4 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

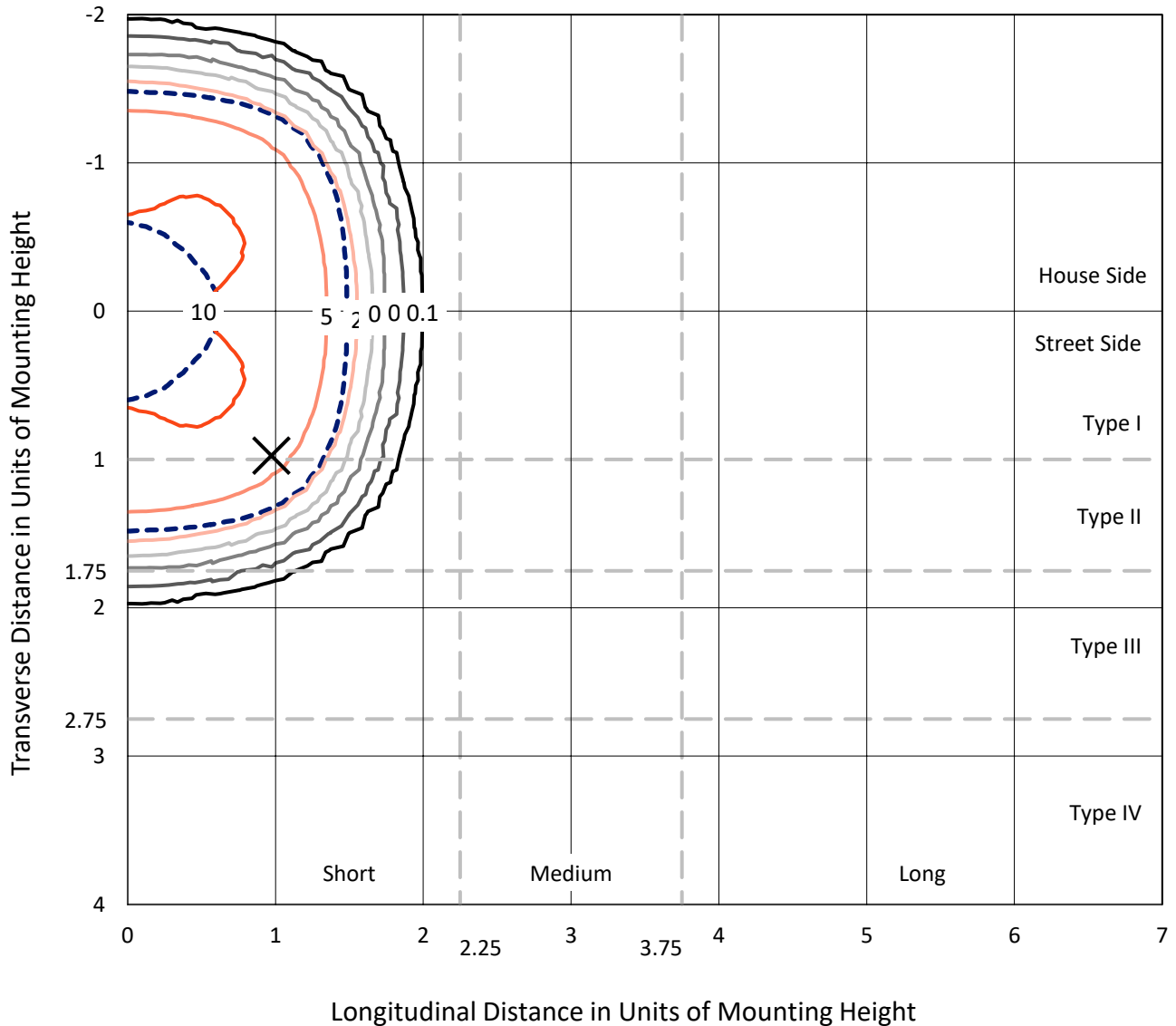
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

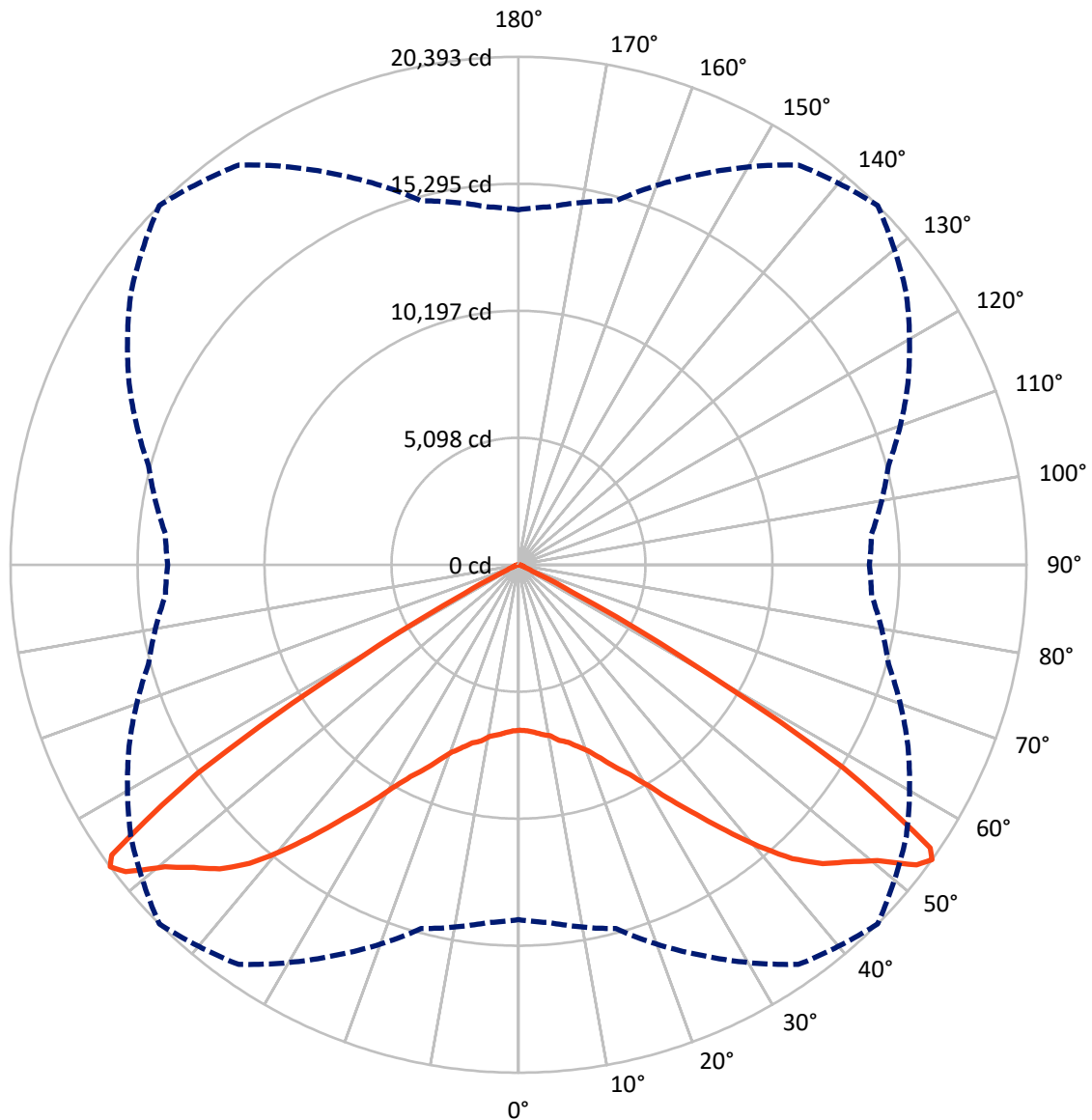
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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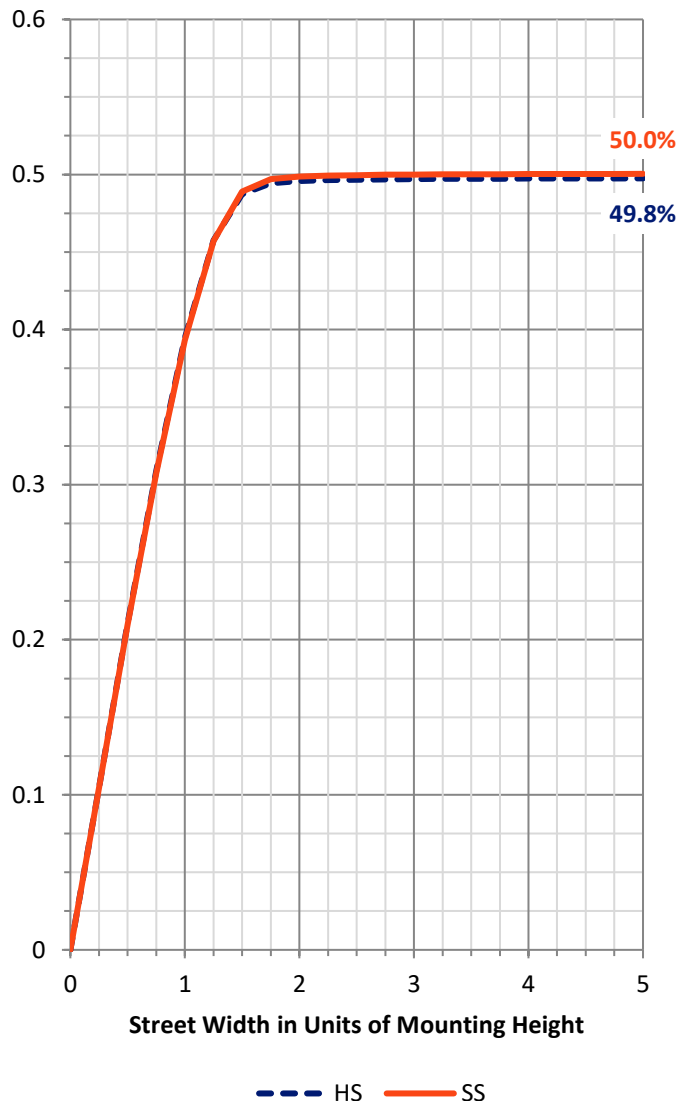
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20258.9	0.0	20258.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20258.9	0.0	20258.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	40517.7	0.0	40517.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.3	1.6
10°-20°	2105.8	5.2
20°-30°	4127.2	10.2
30°-40°	7421.5	18.3
40°-50°	12704.2	31.4
50°-60°	12292.6	30.3
60°-70°	1052.3	2.6
70°-80°	124.7	0.3
80°-90°	39.1	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°	40517.7	100.0
0°-180°	40517.7	100.0

Coefficient of Utilization



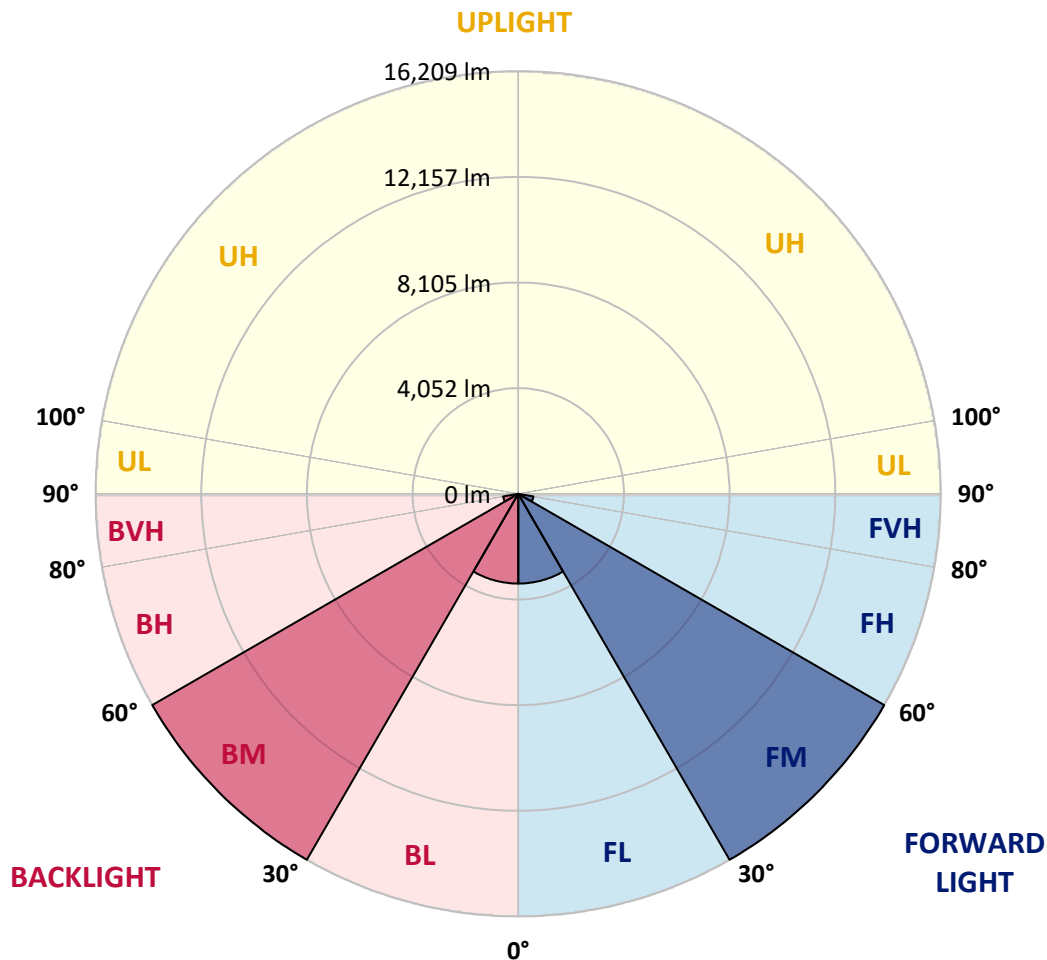
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3441.6	8.5			
FM (30°-60°)	16209.2	40.0			
FH (60°-80°)	588.5	1.5			G0/660
FVH (80°-90°)	19.6	0.0			G1/100
BL (0°-30°)	3441.6	8.5	B4/5000		
BM (30°-60°)	16209.2	40.0	B5		
BH (60°-80°)	588.5	1.5	B2/1000		G0/660
BVH (80°-90°)	19.6	0.0			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°	6643.6	6643.6	6643.6	6643.6	6643.6	6643.6	6643.6	6643.6	6643.6	6643.6	6643.6
2.5°	6675.8	6714.2	6688.6	6707.8	6707.8	6675.8	6695.0	6618.0	6669.3	6630.8	6637.3
5°	6778.5	6772.0	6772.0	6778.5	6752.7	6765.6	6739.9	6714.2	6695.0	6669.3	6746.3
7.5°	6906.8	6906.8	6861.9	6874.8	6861.9	6881.1	6829.8	6778.5	6759.2	6739.9	6727.1
10°	7028.7	7016.0	6996.7	7054.5	7009.5	6983.8	6958.2	6926.1	6855.5	6829.8	6804.1
12.5°	7208.5	7202.1	7176.4	7234.2	7208.5	7234.2	7137.9	7054.5	7041.6	6958.2	7003.1
15°	7420.3	7478.1	7433.2	7433.2	7420.3	7388.3	7349.8	7311.2	7195.7	7163.6	7170.0
17.5°	7696.3	7677.1	7683.5	7683.5	7747.7	7664.3	7587.2	7491.0	7433.2	7413.9	7349.8
20°	7959.6	7985.2	7978.8	8023.7	8062.2	7972.3	7888.9	7876.0	7715.6	7741.3	7651.4
22.5°	8421.7	8402.4	8434.6	8466.6	8440.9	8428.1	8351.0	8254.8	8113.5	8049.4	8036.6
25°	8909.6	8877.4	8819.7	8896.7	8935.2	8993.0	8845.4	8794.0	8575.8	8479.5	8485.9
27.5°	9326.8	9371.7	9435.9	9468.0	9564.3	9545.0	9442.3	9275.4	9108.5	8999.4	8928.8
30°	9898.1	9923.7	10032.9	10077.8	10244.7	10289.6	10129.2	9936.6	9641.3	9500.1	9416.7
32.5°	10424.4	10604.2	10597.7	10822.4	11091.9	11278.1	10989.3	10694.0	10398.7	10231.9	10084.2
35°	11278.1	11246.0	11432.2	11669.7	12106.2	12318.0	12003.5	11663.2	11214.0	10944.4	10828.8
37.5°	12074.1	12086.9	12337.3	12716.0	13216.7	13544.1	13268.0	12709.6	12247.4	11900.8	11740.3
40°	13229.5	13255.2	13511.9	13942.0	14506.9	14860.0	14539.0	13974.1	13357.9	13088.3	13088.3
42.5°	14583.9	14693.0	14860.0	15232.2	15739.3	16130.9	15842.0	15399.1	14776.5	14429.9	14481.2
45°	15976.8	16028.2	16137.3	16689.3	16926.8	17119.4	16849.8	16644.4	16227.2	15803.5	15732.9
47.5°	17279.9	17299.1	17620.1	17793.4	17979.6	17819.1	17992.4	17722.8	17254.2	16843.4	16760.0
50°	17857.6	17825.5	18281.2	18807.6	18948.8	18666.4	18518.7	18339.0	17626.5	17132.3	16914.0
52.5°	16175.8	16362.0	17209.3	18672.8	19776.9	20014.4	19154.2	18326.1	16997.5	16034.6	15887.0
54°	14250.2	14423.4	15123.1	17292.7	19590.7	20393.1	19006.6	17247.8	15373.5	14230.9	14083.2
55°	12343.7	12151.1	13422.1	15636.6	18717.7	20059.3	18422.4	15854.9	13710.9	12664.6	12459.2
57.5°	6682.2	6714.2	7786.2	9878.8	13152.5	15379.9	13582.6	10726.1	8100.8	6926.1	6823.4
60°	2118.2	2169.6	2638.2	3992.6	6284.2	7503.8	6431.8	4307.1	2978.4	2387.9	2291.6
62.5°	661.2	686.8	751.0	1116.9	1720.3	2458.5	1925.7	1155.4	860.2	789.5	802.4
65°	404.4	404.4	410.8	436.5	513.5	596.9	577.7	507.1	487.9	475.0	468.6
67.5°	263.1	256.8	269.6	288.9	301.7	308.1	327.4	346.7	340.2	327.4	327.4
70°	160.5	154.1	166.9	192.6	199.0	211.8	231.1	256.8	250.4	237.5	243.9
72.5°	89.9	89.9	96.3	115.6	134.8	147.6	166.9	186.1	192.6	186.1	186.1
75°	32.1	38.5	51.4	70.6	83.4	102.7	121.9	141.2	160.5	147.6	141.2
77.5°	12.9	12.9	25.7	44.9	64.2	83.4	115.6	134.8	147.6	134.8	121.9
80°	6.4	6.4	19.3	38.5	57.8	77.0	96.3	115.6	121.9	109.2	96.3
82.5°	6.4	6.4	19.3	38.5	57.8	70.6	102.7	115.6	128.4	115.6	96.3
85°	0.0	6.4	19.3	38.5	51.4	57.8	57.8	38.5	32.1	19.3	19.3
87.5°	0.0	0.0	6.4	0.0	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)