

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: P534411

Luminaire Tested: **GALN-SA9D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534411
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-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 38284 lumens
Efficiency: N/A
Efficacy: 69.4 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

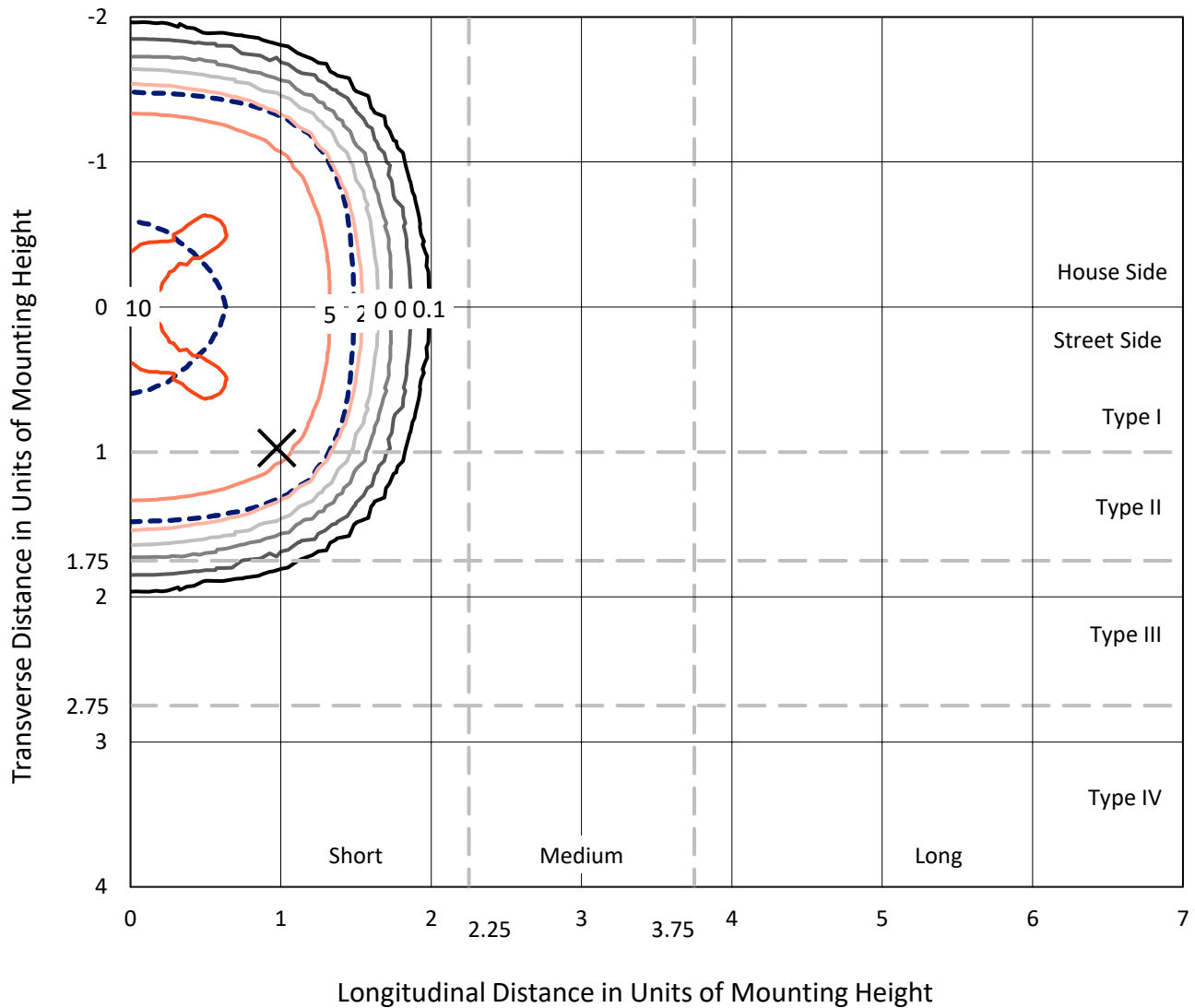
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

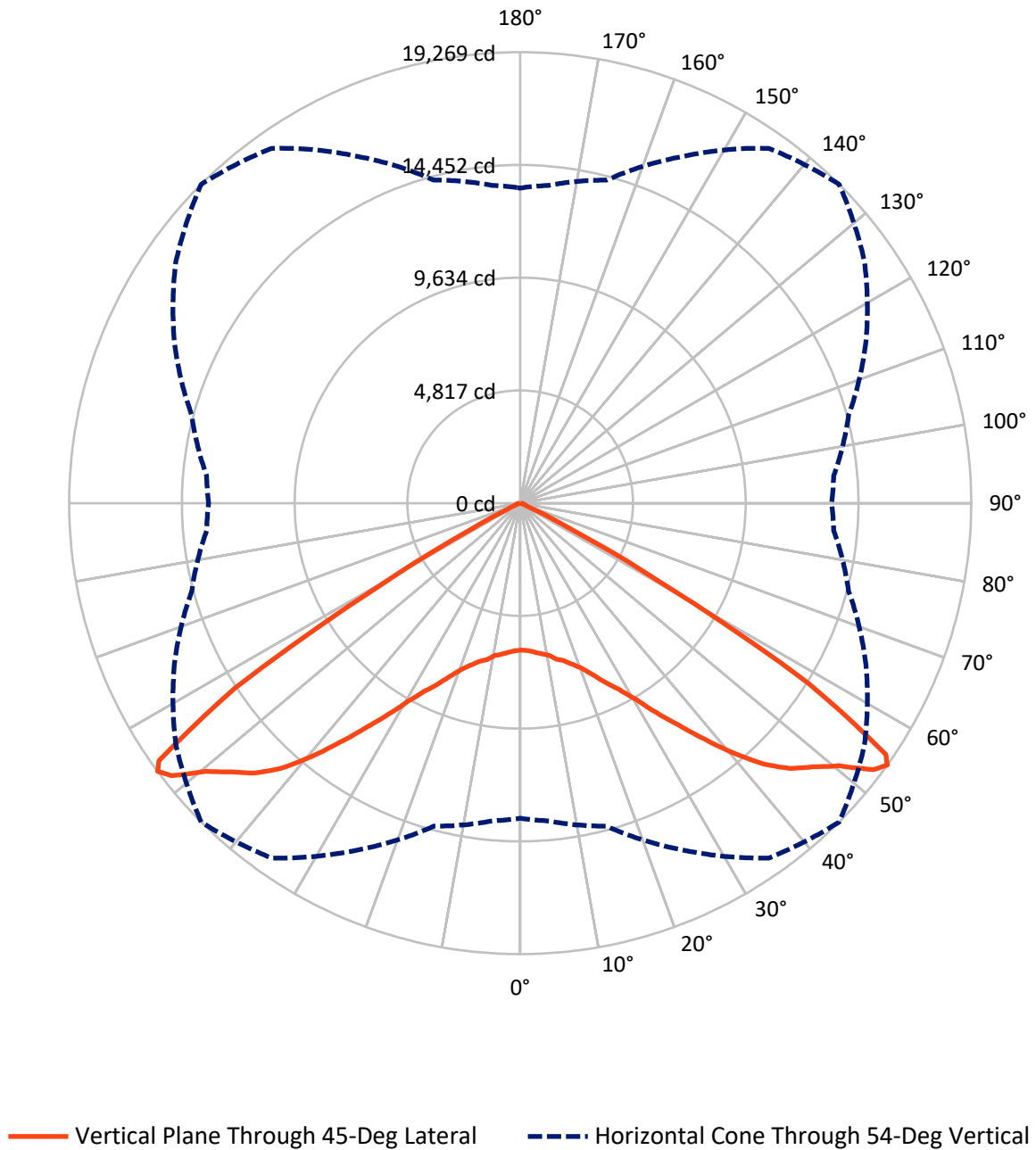


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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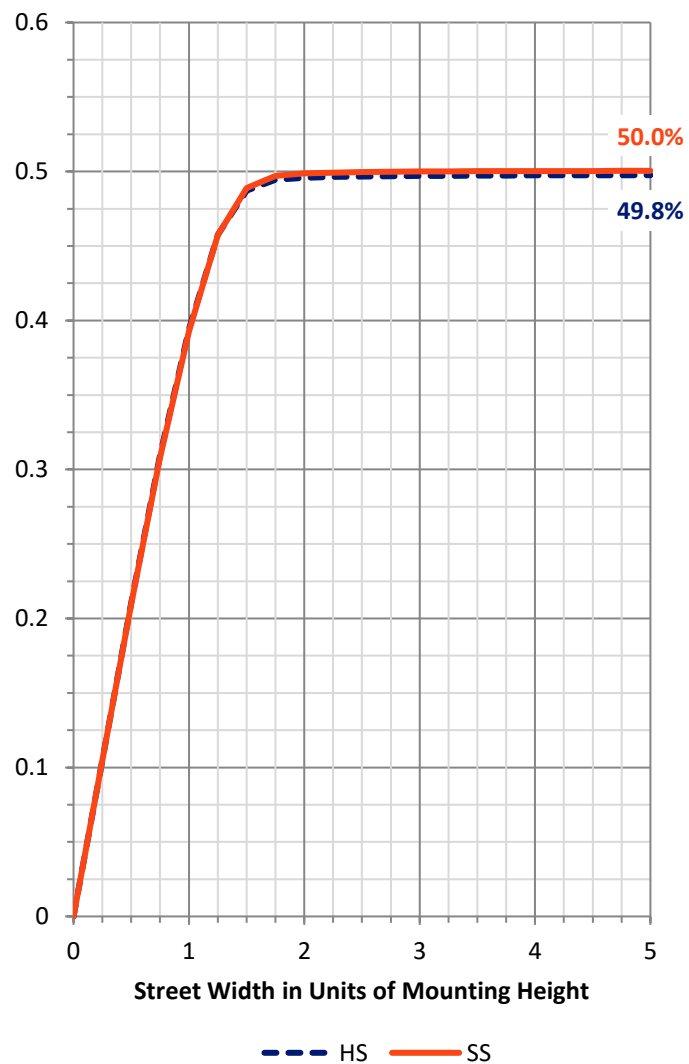
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19142.0	0.0	19142.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19142.0	0.0	19142.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38284.0	0.0	38284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.4	1.6
10°-20°	1989.7	5.2
20°-30°	3899.7	10.2
30°-40°	7012.4	18.3
40°-50°	12003.9	31.4
50°-60°	11614.9	30.3
60°-70°	994.3	2.6
70°-80°	117.9	0.3
80°-90°	37.0	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°	38284.0	100.0
0°-180°	38284.0	100.0

Coefficient of Utilization



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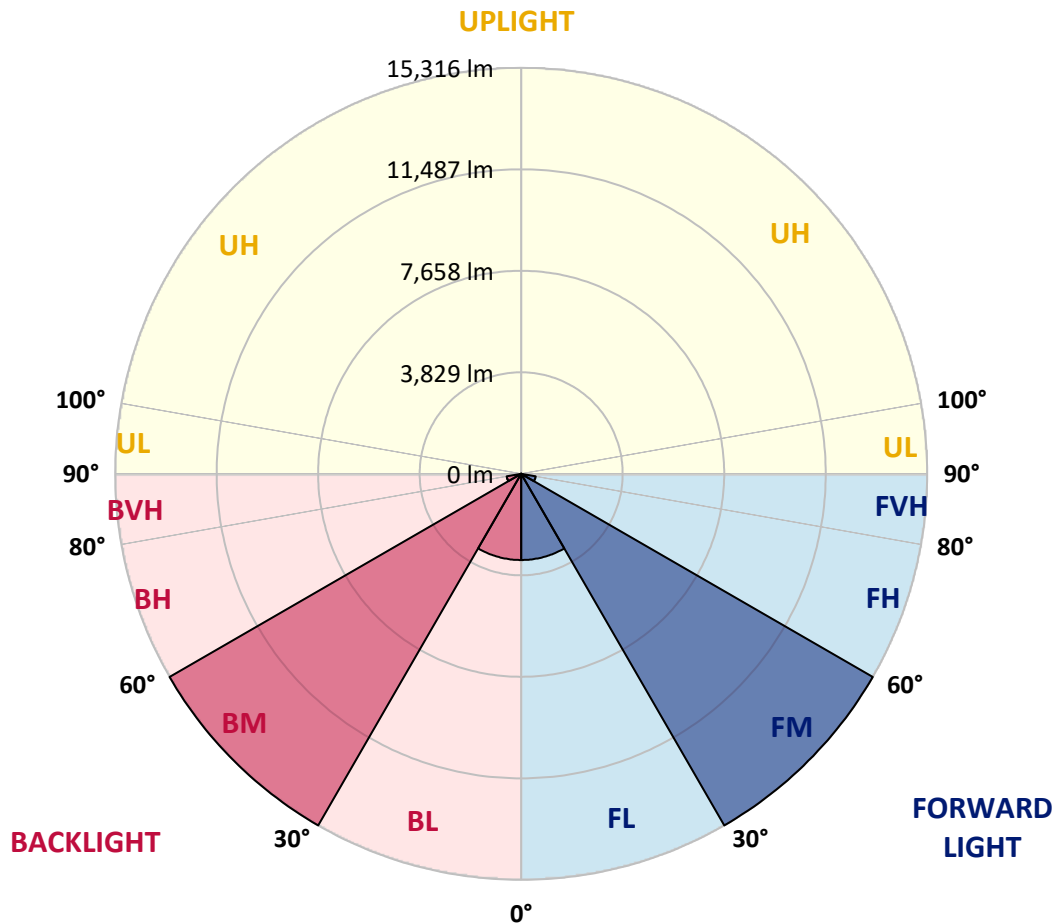
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3251.9	8.5			
FM	(30°-60°)	15315.6	40.0			
FH	(60°-80°)	556.1	1.5			G0/660
FVH	(80°-90°)	18.5	0.0			G1/100
BL	(0°-30°)	3251.9	8.5	B4/5000		
BM	(30°-60°)	15315.6	40.0	B5		
BH	(60°-80°)	556.1	1.5	B2/1000		G0/660
BVH	(80°-90°)	18.5	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°	6277.4	6277.4	6277.4	6277.4	6277.4	6277.4	6277.4	6277.4	6277.4	6277.4	6277.4
2.5°	6307.7	6344.1	6319.8	6338.0	6338.0	6307.7	6325.9	6253.1	6301.6	6265.3	6271.3
5°	6404.8	6398.7	6398.7	6404.8	6380.5	6392.6	6368.4	6344.1	6325.9	6301.6	6374.4
7.5°	6526.1	6526.1	6483.6	6495.7	6483.6	6501.8	6453.3	6404.8	6386.6	6368.4	6356.2
10°	6641.3	6629.2	6611.0	6665.5	6623.1	6598.8	6574.6	6544.2	6477.5	6453.3	6429.0
12.5°	6811.1	6805.0	6780.8	6835.4	6811.1	6835.4	6744.4	6665.5	6653.4	6574.6	6617.0
15°	7011.3	7065.8	7023.4	7023.4	7011.3	6980.9	6944.5	6908.2	6799.0	6768.7	6774.7
17.5°	7272.1	7253.9	7259.9	7259.9	7320.6	7241.7	7169.0	7078.0	7023.4	7005.2	6944.5
20°	7520.7	7545.0	7538.9	7581.4	7617.8	7532.9	7454.0	7441.9	7290.3	7314.5	7229.6
22.5°	7957.4	7939.2	7969.5	7999.9	7975.6	7963.5	7890.7	7799.7	7666.3	7605.6	7593.5
25°	8418.4	8388.0	8333.5	8406.2	8442.6	8497.2	8357.7	8309.2	8103.0	8012.0	8018.1
27.5°	8812.6	8855.1	8915.7	8946.0	9037.0	9018.8	8921.8	8764.1	8606.4	8503.3	8436.6
30°	9352.4	9376.7	9479.8	9522.2	9679.9	9722.4	9570.7	9388.8	9109.8	8976.4	8897.5
32.5°	9849.7	10019.6	10013.5	10225.8	10480.5	10656.4	10383.5	10104.5	9825.5	9667.8	9528.3
35°	10656.4	10626.1	10802.0	11026.4	11438.8	11638.9	11341.7	11020.3	10595.7	10341.0	10231.8
37.5°	11408.5	11420.6	11657.1	12015.0	12488.1	12797.4	12536.6	12008.9	11572.2	11244.7	11093.1
40°	12500.2	12524.4	12767.0	13173.4	13707.1	14040.7	13737.5	13203.7	12621.5	12366.7	12366.7
42.5°	13779.9	13883.0	14040.7	14392.5	14871.6	15241.6	14968.7	14550.2	13961.9	13634.4	13682.9
45°	15096.0	15144.6	15247.7	15769.3	15993.7	16175.6	15920.9	15726.8	15332.6	14932.3	14865.6
47.5°	16327.3	16345.5	16648.7	16812.5	16988.4	16836.7	17000.5	16745.8	16303.0	15914.8	15836.0
50°	16873.1	16842.8	17273.4	17770.8	17904.2	17637.3	17497.8	17328.0	16654.8	16187.8	15981.6
52.5°	15284.1	15460.0	16260.5	17643.4	18686.6	18911.0	18098.3	17315.9	16060.4	15150.6	15011.1
54°	13464.5	13628.3	14289.4	16339.4	18510.7	19268.8	17958.8	16296.9	14525.9	13446.3	13306.8
55°	11663.2	11481.2	12682.1	14774.6	17685.8	18953.5	17406.9	14980.8	12955.1	11966.5	11772.4
57.5°	6313.8	6344.1	7357.0	9334.2	12427.4	14532.0	12833.8	10134.8	7654.2	6544.2	6447.2
60°	2001.5	2050.0	2492.8	3772.5	5937.7	7090.1	6077.2	4069.7	2814.2	2256.2	2165.2
62.5°	624.7	649.0	709.6	1055.3	1625.4	2322.9	1819.5	1091.7	812.7	746.0	758.1
65°	382.1	382.1	388.2	412.4	485.2	564.1	545.9	479.1	460.9	448.8	442.8
67.5°	248.7	242.6	254.7	272.9	285.1	291.1	309.3	327.5	321.5	309.3	309.3
70°	151.6	145.6	157.7	182.0	188.0	200.1	218.3	242.6	236.5	224.4	230.5
72.5°	84.9	84.9	91.0	109.2	127.4	139.5	157.7	175.9	182.0	175.9	175.9
75°	30.3	36.4	48.5	66.7	78.8	97.0	115.2	133.4	151.6	139.5	133.4
77.5°	12.1	12.1	24.3	42.5	60.7	78.8	109.2	127.4	139.5	127.4	115.2
80°	6.1	6.1	18.2	36.4	54.6	72.8	91.0	109.2	115.2	103.1	91.0
82.5°	6.1	6.1	18.2	36.4	54.6	66.7	97.0	109.2	121.3	109.2	91.0
85°	0.0	6.1	18.2	36.4	48.5	54.6	54.6	36.4	30.3	18.2	18.2
87.5°	0.0	0.0	6.1	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)