

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: P534412

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50196 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

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



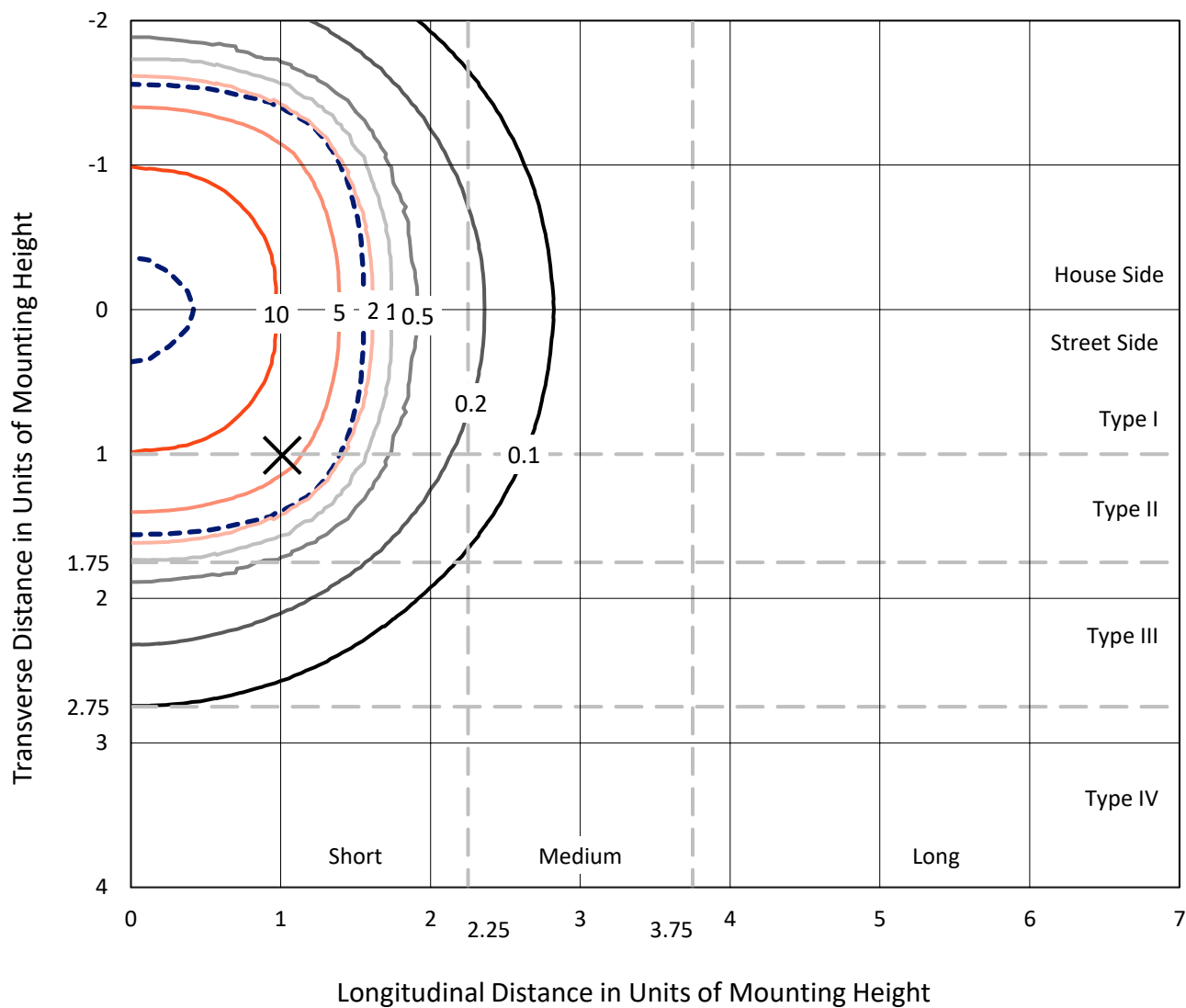
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

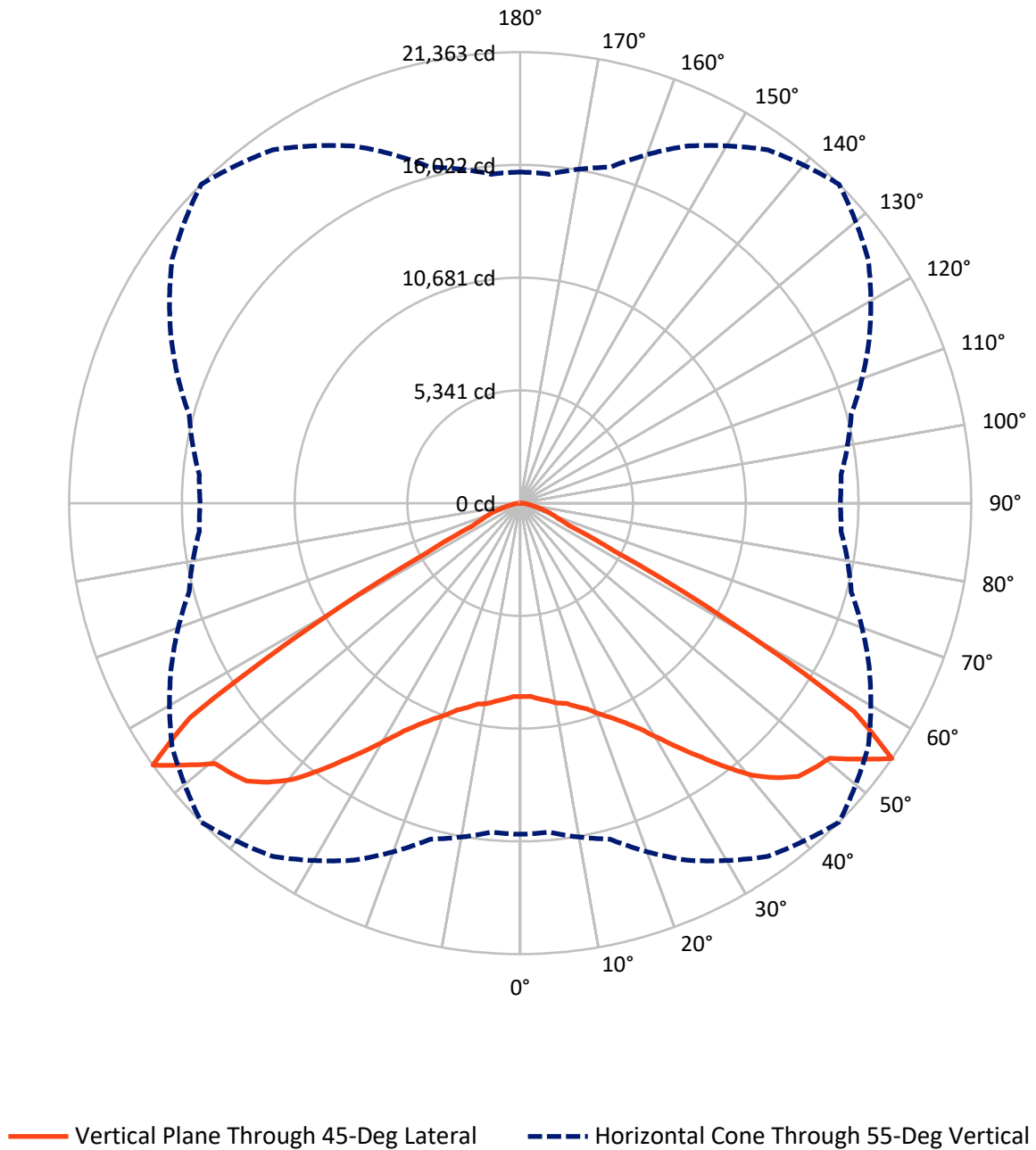
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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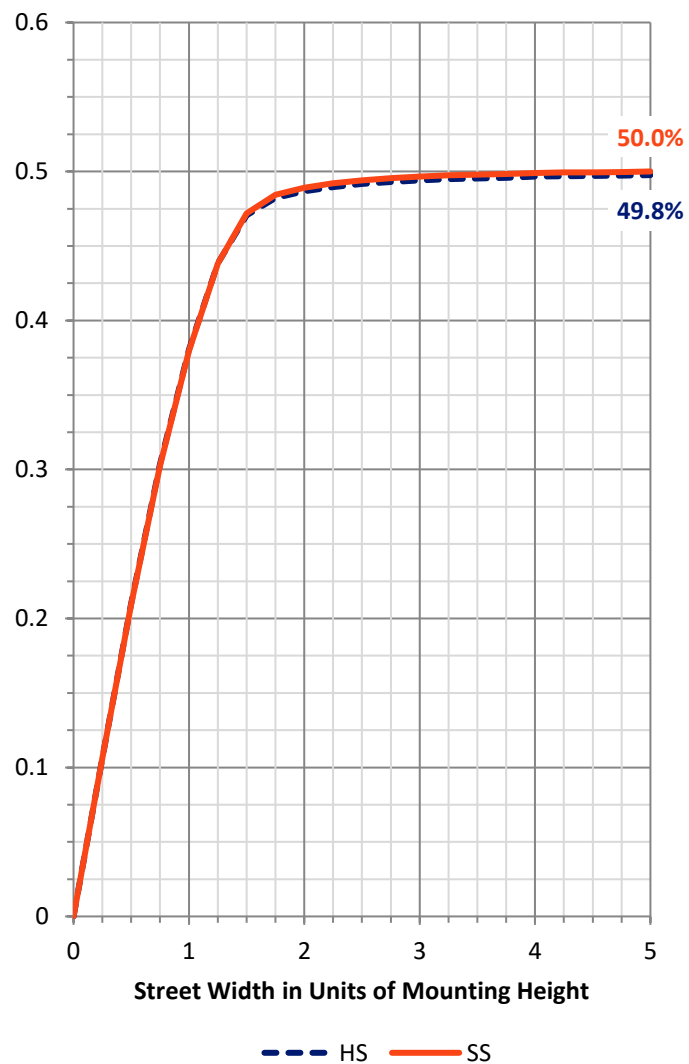
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25098.0	0.0	25098.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25098.0	0.0	25098.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50196.0	0.0	50196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	895.3	1.8
10°-20°	2836.9	5.7
20°-30°	5289.9	10.5
30°-40°	8857.0	17.6
40°-50°	13782.2	27.5
50°-60°	14310.2	28.5
60°-70°	3034.7	6.0
70°-80°	999.4	2.0
80°-90°	190.3	0.4
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°	50196.0	100.0
0°-180°	50196.0	100.0

Coefficient of Utilization



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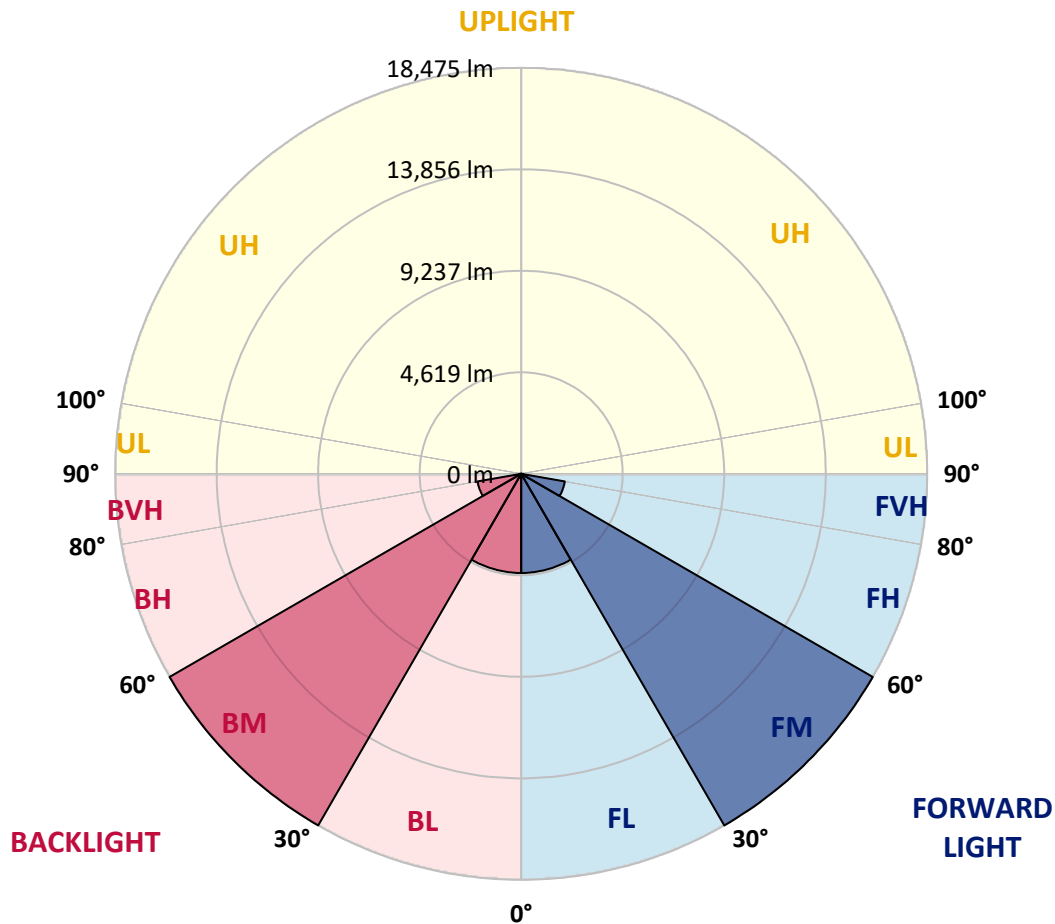
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4511.1	9.0			
FM	(30°-60°)	18474.7	36.8			
FH	(60°-80°)	2017.1	4.0			G2/5000
FVH	(80°-90°)	95.2	0.2			G1/100
BL	(0°-30°)	4511.1	9.0	B4/5000		
BM	(30°-60°)	18474.7	36.8	B5		
BH	(60°-80°)	2017.1	4.0	B3/2500		G2/5000
BVH	(80°-90°)	95.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9165.0	9165.0	9165.0	9165.0	9165.0	9165.0	9165.0	9165.0	9165.0	9165.0	9165.0
2.5°	9274.2	9231.8	9159.0	9213.6	9256.0	9165.0	9201.4	9219.6	9207.5	9159.0	9177.2
5°	9407.7	9383.4	9322.7	9365.2	9310.6	9310.6	9274.2	9225.7	9298.5	9286.4	9316.7
7.5°	9407.7	9377.3	9498.6	9419.8	9444.1	9444.1	9383.4	9334.9	9371.3	9316.7	9286.4
10°	9595.7	9638.2	9583.6	9601.8	9589.6	9632.1	9541.1	9510.8	9480.4	9462.3	9425.9
12.5°	9820.1	9789.8	9808.0	9795.9	9838.3	9729.1	9674.5	9607.8	9662.4	9583.6	9638.2
15°	10002.1	9983.9	10002.1	10050.6	10008.2	10002.1	9905.0	9838.3	9753.4	9771.6	9686.7
17.5°	10250.8	10232.6	10238.6	10281.1	10275.0	10244.7	10171.9	10044.5	10014.2	9965.7	9911.1
20°	10620.8	10590.4	10578.3	10596.5	10626.8	10651.1	10505.5	10457.0	10353.9	10275.0	10184.1
22.5°	10936.2	10924.0	10972.6	10893.7	10960.4	11033.2	10893.7	10869.5	10614.7	10572.2	10475.2
25°	11372.9	11354.7	11324.4	11439.6	11518.5	11512.4	11379.0	11245.5	11051.4	11002.9	11002.9
27.5°	11833.9	11730.8	11888.5	11918.8	12058.3	12100.8	11985.5	11791.4	11609.5	11506.3	11530.6
30°	12410.1	12313.1	12349.5	12567.8	12749.8	12907.5	12616.3	12331.3	12076.5	11894.5	11864.2
32.5°	12986.3	12889.3	12998.5	13210.8	13574.7	13811.2	13526.2	13028.8	12731.6	12464.7	12519.3
35°	13453.4	13526.2	13702.1	14023.5	14399.6	14781.7	14326.8	13944.7	13520.1	13222.9	13265.4
37.5°	14205.5	14429.9	14569.4	14939.4	15473.2	15867.5	15394.4	14897.0	14442.1	14053.9	13920.4
40°	15188.1	15339.8	15497.5	15934.2	16565.0	16959.3	16510.4	15861.4	15412.6	15012.2	14994.0
42.5°	16267.8	16413.4	16577.1	17110.9	17487.0	17784.2	17371.7	17026.0	16528.6	16213.2	16195.0
45°	17523.4	17420.2	17602.2	17954.0	18269.4	18463.5	18196.6	18026.8	17668.9	17377.8	17347.5
47.5°	18360.4	18269.4	18597.0	18912.4	18960.9	18748.6	18803.2	18960.9	18584.8	18105.7	18257.3
50°	18845.7	18845.7	19064.0	19355.2	19264.2	18991.2	19421.9	19434.0	19057.9	18633.4	18633.4
52.5°	18002.5	18190.6	18809.3	19761.6	20064.8	20143.7	20046.6	19634.2	18651.6	17784.2	17741.7
55°	15685.5	15643.0	16480.1	18663.7	20428.8	21362.9	20125.5	18227.0	16231.4	15254.8	15157.8
57.5°	10202.2	10250.8	11500.3	13726.3	16910.7	18651.6	16565.0	13896.2	11500.3	10153.7	10281.1
60°	4591.6	4755.4	5513.6	7175.5	9911.1	11330.4	9935.4	7539.5	5786.5	5022.3	5089.0
62.5°	2638.5	2668.8	2699.2	3202.6	4221.6	4991.9	4385.4	3384.6	2984.2	2850.8	2850.8
65°	2226.1	2207.9	2213.9	2256.4	2365.6	2523.3	2456.5	2365.6	2377.7	2365.6	2347.4
67.5°	1892.5	1916.7	1898.5	1928.8	1934.9	1959.2	2001.6	2038.0	2044.1	2056.2	2044.1
70°	1552.8	1558.8	1571.0	1595.2	1601.3	1619.5	1680.2	1710.5	1728.7	1728.7	1752.9
72.5°	1188.8	1182.8	1194.9	1219.2	1249.5	1255.6	1310.2	1352.6	1376.9	1346.6	1352.6
75°	782.5	788.5	806.7	824.9	867.4	909.8	928.0	970.5	976.6	988.7	958.4
77.5°	467.0	479.2	497.4	533.8	570.2	606.6	649.0	679.3	691.5	679.3	642.9
80°	303.3	303.3	327.5	357.9	400.3	430.7	454.9	479.2	497.4	479.2	467.0
82.5°	188.0	188.0	218.4	254.8	285.1	303.3	339.7	370.0	388.2	376.1	357.9
85°	97.0	103.1	127.4	157.7	182.0	194.1	188.0	169.8	151.6	145.6	133.4
87.5°	30.3	30.3	36.4	36.4	30.3	30.3	36.4	30.3	36.4	36.4	36.4
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)