

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: P533840

Luminaire Tested: **GALN-SA9B-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533840
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-SA9B-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA 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: 46463 lumens
Efficiency: N/A
Efficacy: 127.6 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

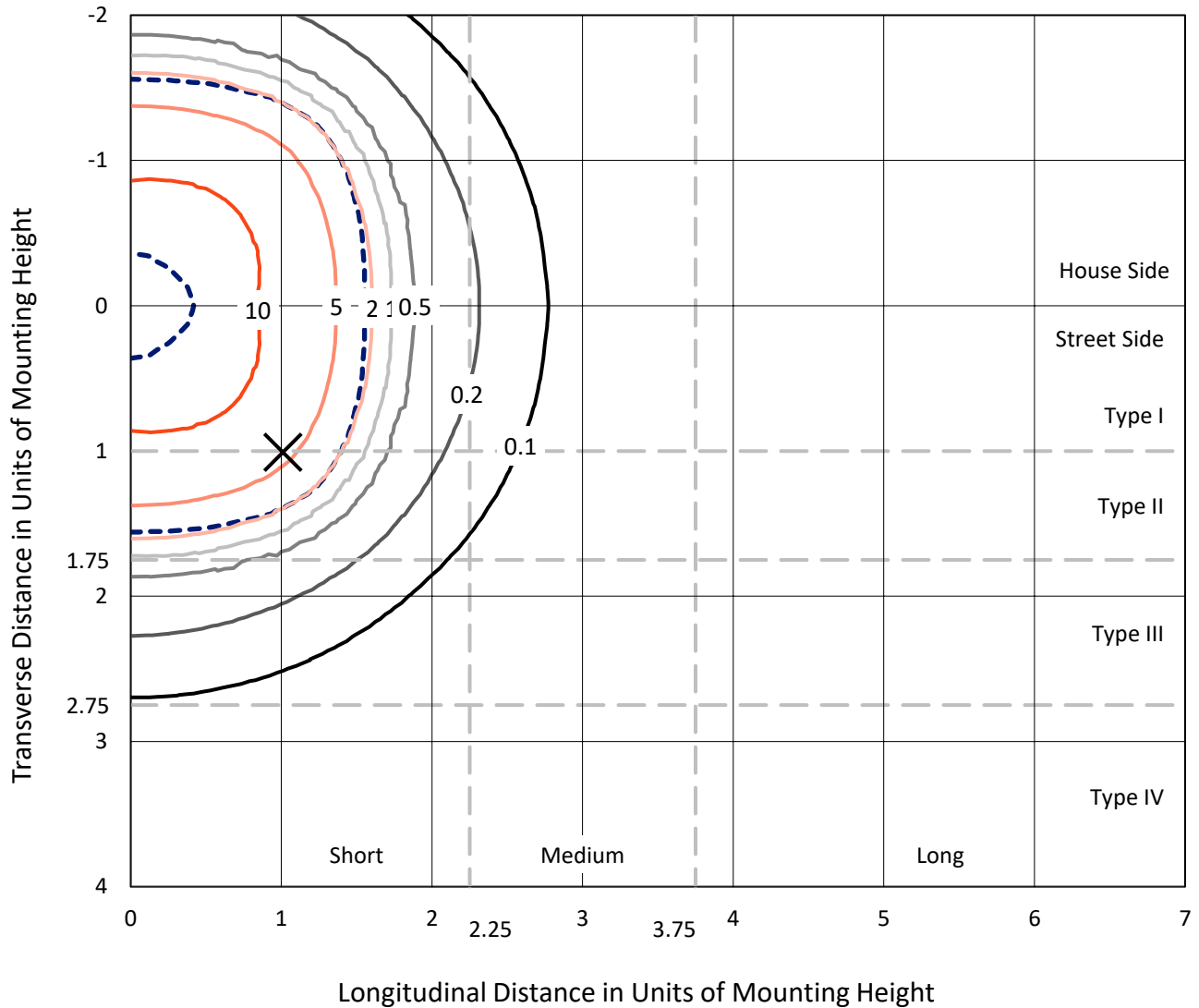
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

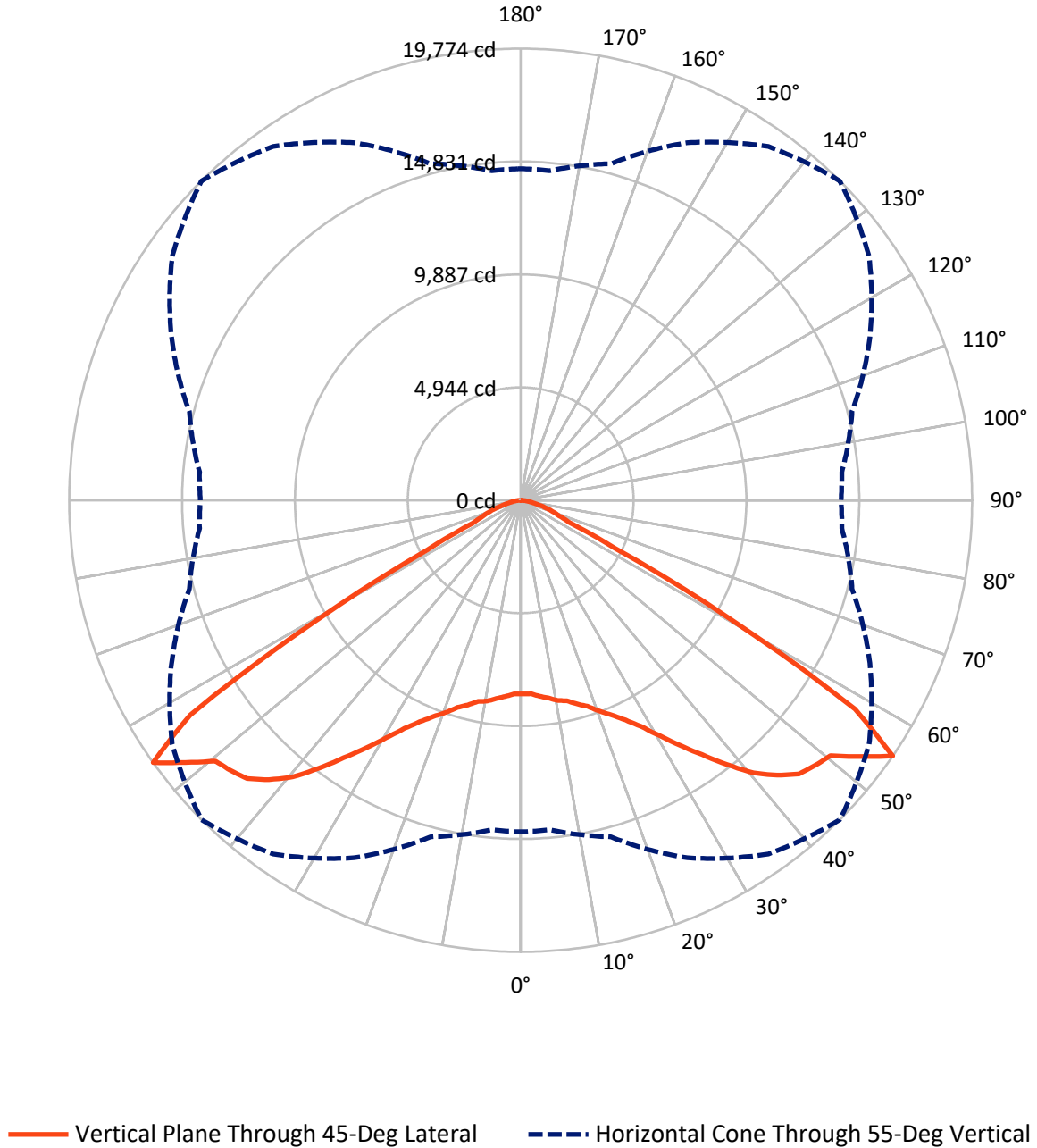
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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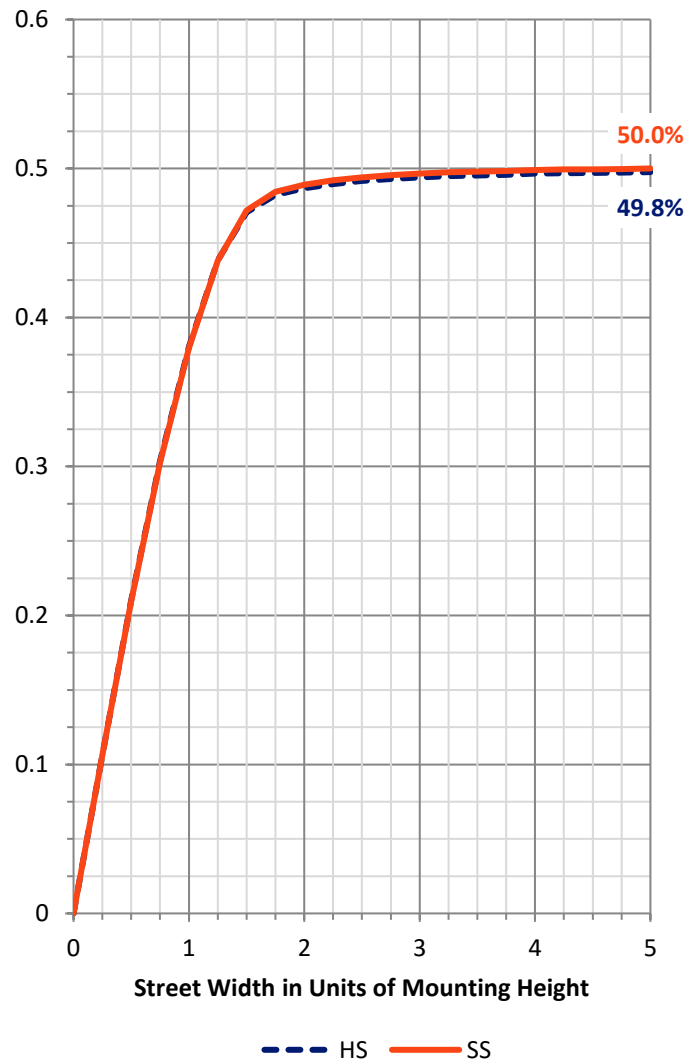
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23231.5	0.0	23231.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23231.5	0.0	23231.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46463.0	0.0	46463.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.7	1.8
10°-20°	2625.9	5.7
20°-30°	4896.5	10.5
30°-40°	8198.3	17.6
40°-50°	12757.2	27.5
50°-60°	13246.0	28.5
60°-70°	2809.0	6.0
70°-80°	925.1	2.0
80°-90°	176.2	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°	46463.0	100.0
0°-180°	46463.0	100.0

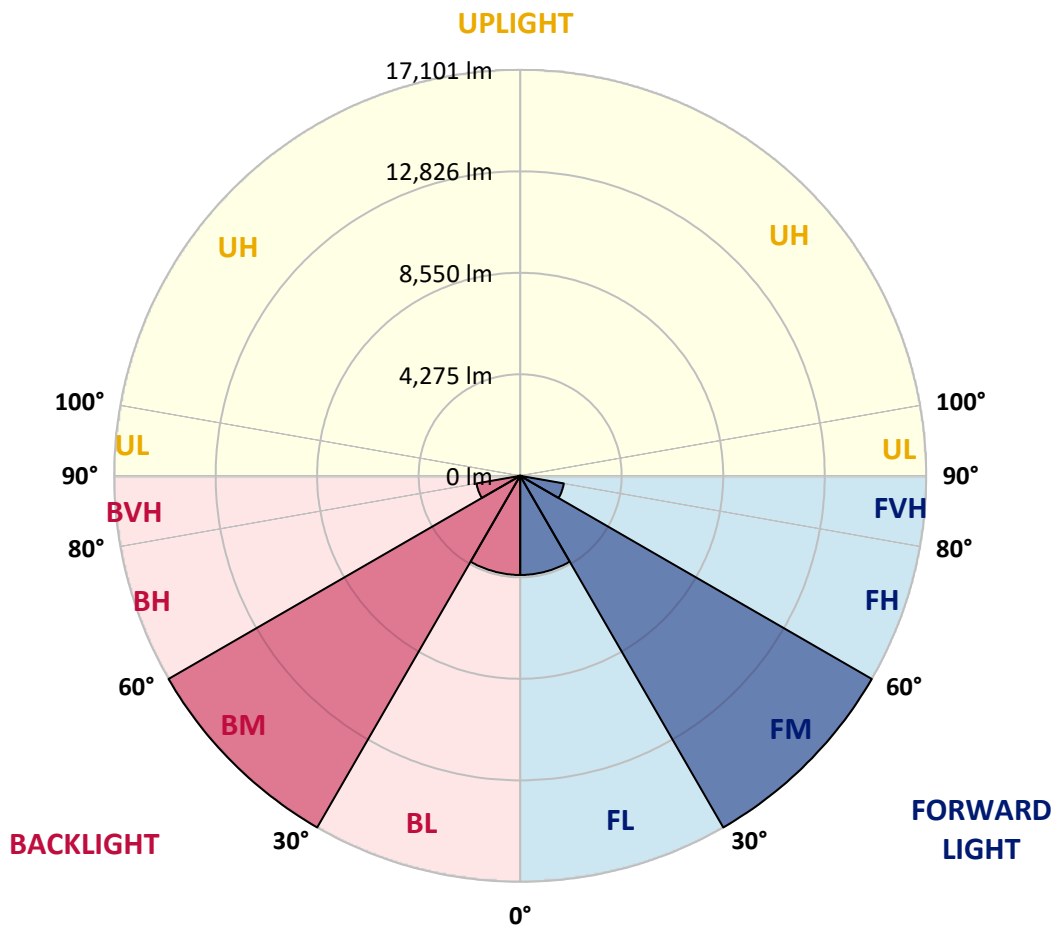


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4175.6	9.0			
FM (30°-60°)	17100.8	36.8			
FH (60°-80°)	1867.1	4.0			G2/5000
FVH (80°-90°)	88.1	0.2			G1/100
BL (0°-30°)	4175.6	9.0	B4/5000		
BM (30°-60°)	17100.8	36.8	B5		
BH (60°-80°)	1867.1	4.0	B3/2500		G2/5000
BVH (80°-90°)	88.1	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°	8483.5	8483.5	8483.5	8483.5	8483.5	8483.5	8483.5	8483.5	8483.5	8483.5	8483.5
2.5°	8584.5	8545.2	8477.8	8528.4	8567.7	8483.5	8517.1	8534.0	8522.8	8477.8	8494.7
5°	8708.0	8685.6	8629.4	8668.7	8618.2	8618.2	8584.5	8539.6	8607.0	8595.7	8623.8
7.5°	8708.0	8680.0	8792.2	8719.3	8741.7	8741.7	8685.6	8640.7	8674.3	8623.8	8595.7
10°	8882.1	8921.4	8870.8	8887.7	8876.5	8915.8	8831.5	8803.5	8775.4	8758.6	8724.9
12.5°	9089.8	9061.7	9078.6	9067.4	9106.7	9005.6	8955.1	8893.3	8943.8	8870.8	8921.4
15°	9258.2	9241.4	9258.2	9303.2	9263.9	9258.2	9168.4	9106.7	9028.1	9044.9	8966.3
17.5°	9488.4	9471.6	9477.2	9516.5	9510.9	9482.8	9415.5	9297.5	9269.5	9224.6	9174.0
20°	9830.9	9802.8	9791.6	9808.5	9836.5	9859.0	9724.2	9679.3	9583.9	9510.9	9426.7
22.5°	10122.9	10111.6	10156.6	10083.6	10145.3	10212.7	10083.6	10061.1	9825.3	9786.0	9696.2
25°	10527.1	10510.3	10482.2	10588.9	10661.9	10656.2	10532.7	10409.2	10229.5	10184.6	10184.6
27.5°	10953.8	10858.4	11004.3	11032.4	11161.5	11200.8	11094.2	10914.5	10746.1	10650.6	10673.1
30°	11487.2	11397.4	11431.0	11633.2	11801.6	11947.6	11678.1	11414.2	11178.4	11010.0	10981.9
32.5°	12020.6	11930.7	12031.8	12228.3	12565.2	12784.1	12520.2	12059.9	11784.8	11537.7	11588.2
35°	12452.9	12520.2	12683.1	12980.6	13328.7	13682.4	13261.4	12907.6	12514.6	12239.5	12278.8
37.5°	13149.1	13356.8	13485.9	13828.4	14322.5	14687.4	14249.5	13789.1	13368.0	13008.7	12885.2
40°	14058.6	14199.0	14344.9	14749.2	15333.1	15698.0	15282.6	14681.8	14266.3	13895.8	13878.9
42.5°	15058.0	15192.7	15344.3	15838.4	16186.5	16461.6	16079.8	15759.8	15299.4	15007.5	14990.6
45°	16220.2	16124.7	16293.2	16618.8	16910.8	17090.4	16843.4	16686.2	16354.9	16085.4	16057.4
47.5°	16995.0	16910.8	17213.9	17505.9	17550.8	17354.3	17404.8	17550.8	17202.7	16759.2	16899.5
50°	17444.1	17444.1	17646.3	17915.7	17831.5	17578.9	17977.5	17988.7	17640.6	17247.6	17247.6
52.5°	16663.7	16837.8	17410.4	18291.9	18572.6	18645.6	18555.8	18174.0	17264.5	16461.6	16422.3
55°	14519.0	14479.7	15254.5	17275.7	18909.5	19774.1	18628.8	16871.5	15024.3	14120.4	14030.5
57.5°	9443.5	9488.4	10645.0	12705.5	15653.1	17264.5	15333.1	12862.7	10645.0	9398.6	9516.5
60°	4250.1	4401.7	5103.5	6641.9	9174.0	10487.8	9196.5	6978.8	5356.2	4648.8	4710.5
62.5°	2442.3	2470.4	2498.4	2964.4	3907.7	4620.7	4059.3	3132.9	2762.3	2638.8	2638.8
65°	2060.5	2043.7	2049.3	2088.6	2189.6	2335.6	2273.9	2189.6	2200.9	2189.6	2172.8
67.5°	1751.7	1774.2	1757.3	1785.4	1791.0	1813.5	1852.8	1886.5	1892.1	1903.3	1892.1
70°	1437.3	1442.9	1454.1	1476.6	1482.2	1499.1	1555.2	1583.3	1600.1	1600.1	1622.6
72.5°	1100.4	1094.8	1106.0	1128.5	1156.6	1162.2	1212.7	1252.0	1274.5	1246.4	1252.0
75°	724.3	729.9	746.7	763.6	802.9	842.2	859.0	898.3	903.9	915.2	887.1
77.5°	432.3	443.5	460.4	494.1	527.8	561.4	600.7	628.8	640.0	628.8	595.1
80°	280.7	280.7	303.2	331.3	370.6	398.6	421.1	443.5	460.4	443.5	432.3
82.5°	174.0	174.0	202.1	235.8	263.9	280.7	314.4	342.5	359.3	348.1	331.3
85°	89.8	95.4	117.9	146.0	168.4	179.7	174.0	157.2	140.4	134.7	123.5
87.5°	28.1	28.1	33.7	33.7	28.1	28.1	33.7	28.1	33.7	33.7	33.7
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)