

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: P530488

Luminaire Tested: **GALN-SA5D-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27487 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

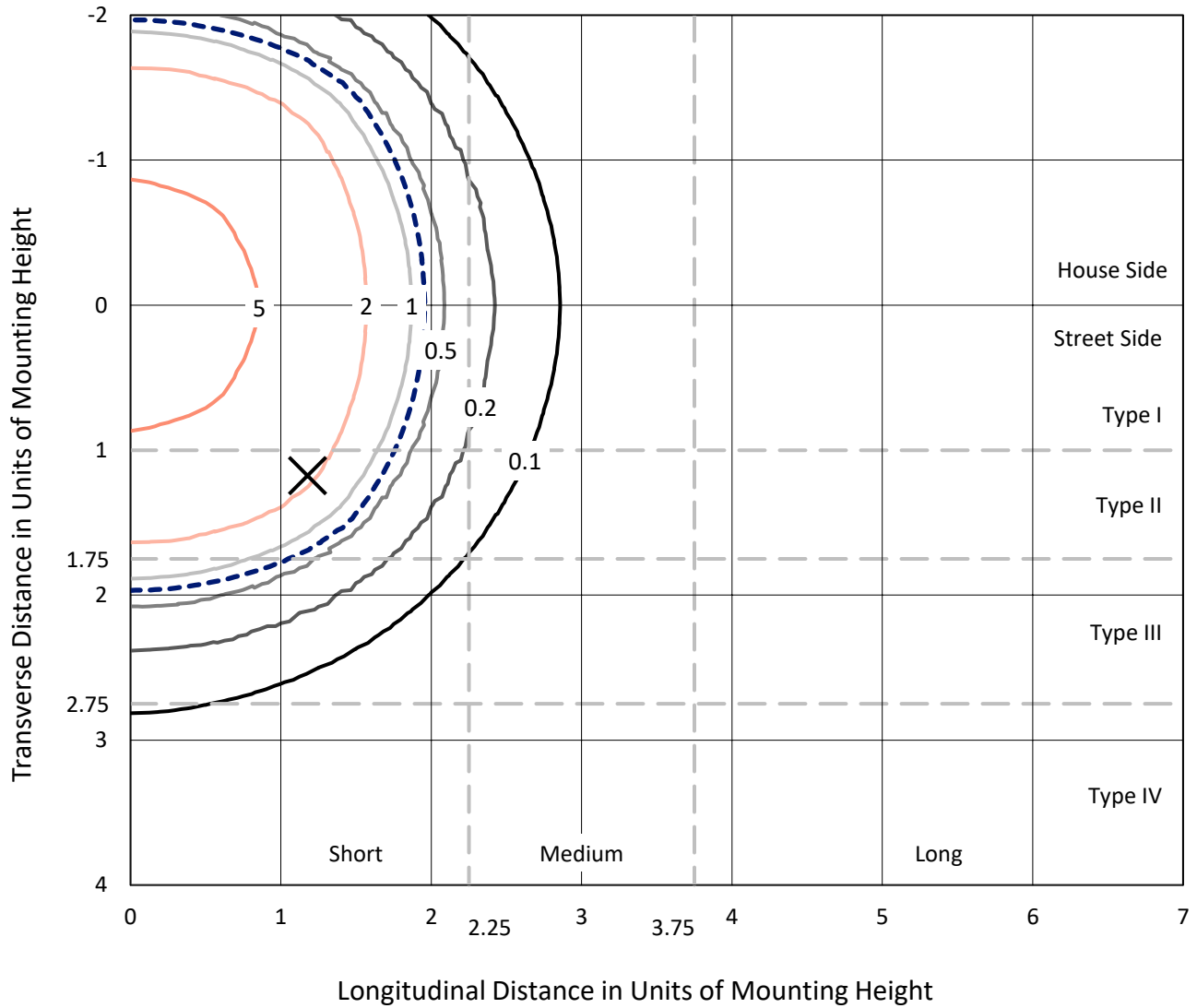
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

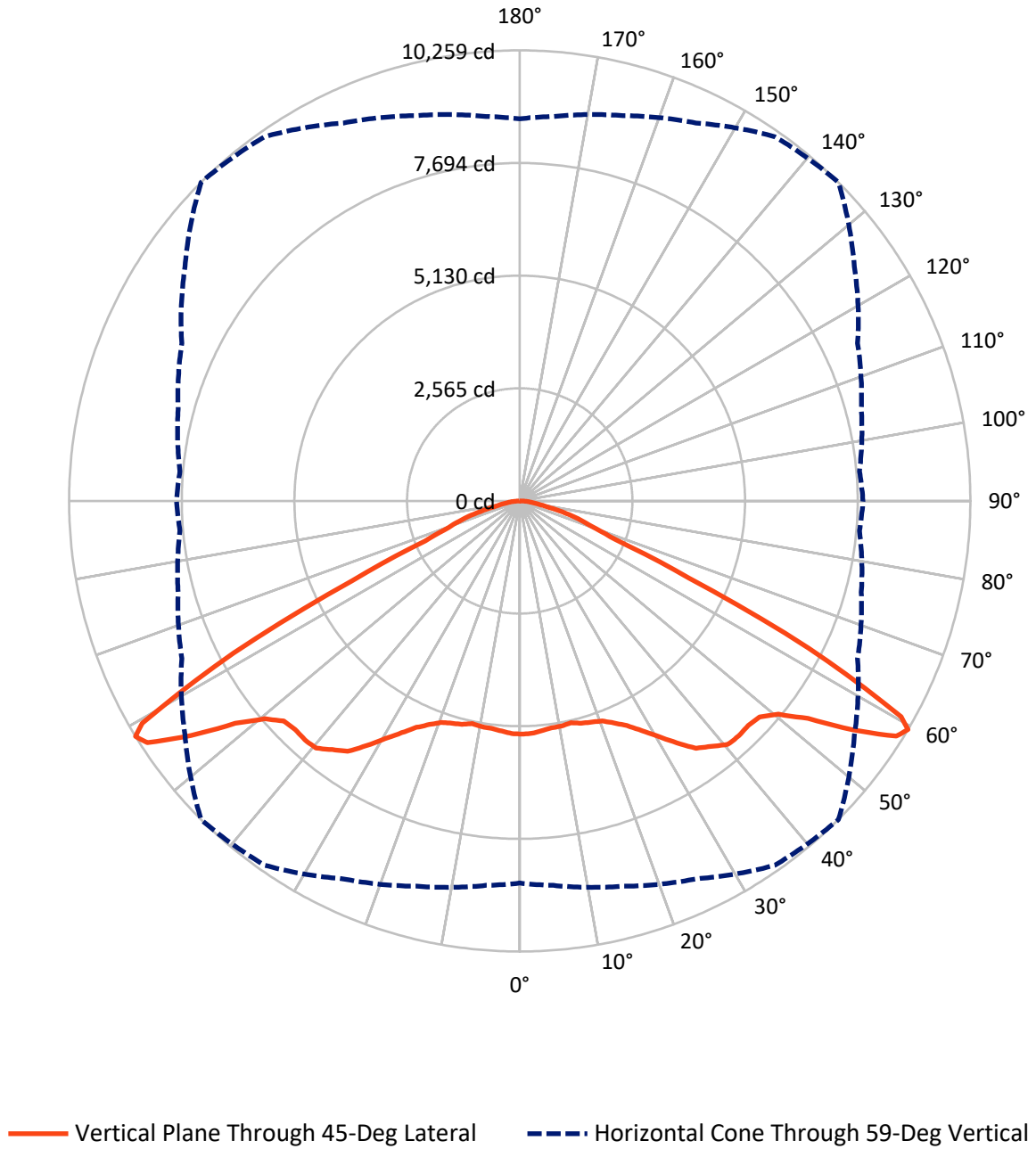
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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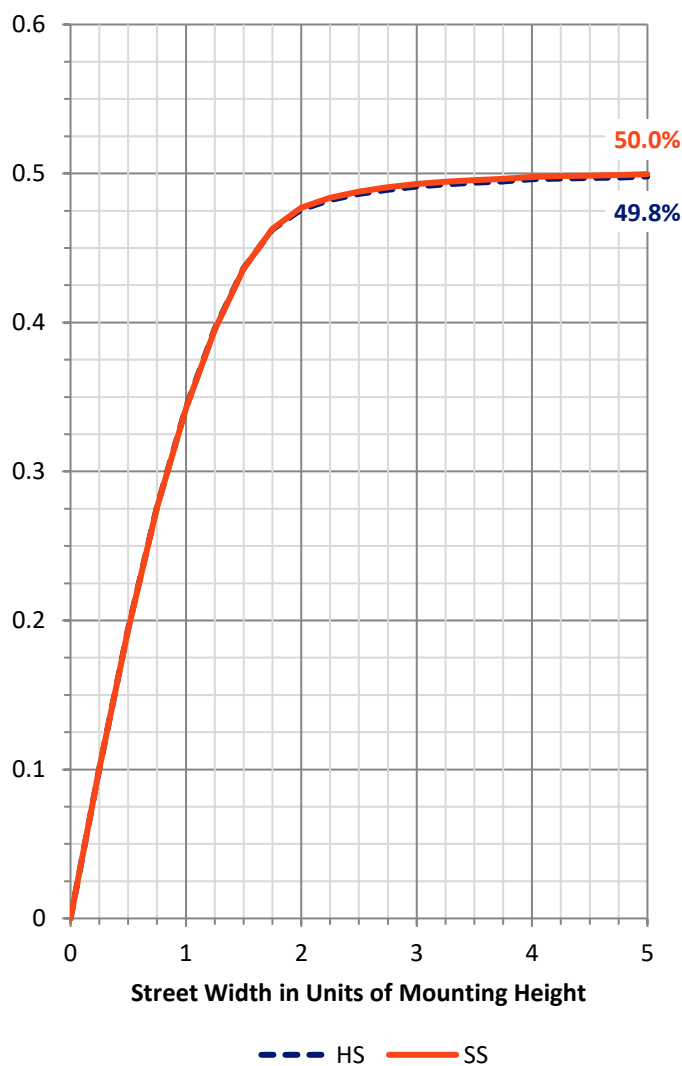
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13743.5	0.0	13743.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13743.5	0.0	13743.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27487.0	0.0	27487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.5	1.8
10°-20°	1488.4	5.4
20°-30°	2598.8	9.5
30°-40°	4150.7	15.1
40°-50°	5654.1	20.6
50°-60°	7645.9	27.8
60°-70°	4193.0	15.3
70°-80°	1072.7	3.9
80°-90°	182.9	0.7
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°	27487.0	100.0
0°-180°	27487.0	100.0

Coefficient of Utilization



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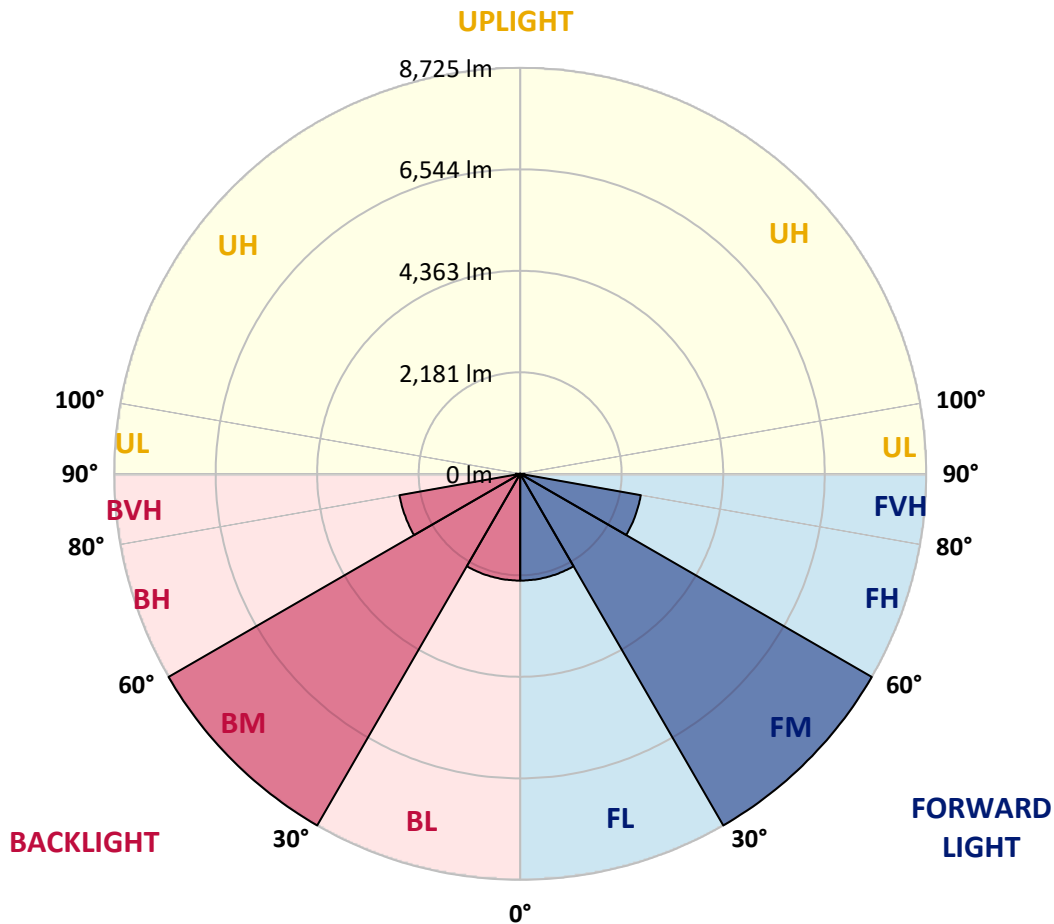
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2293.8	8.3			
FM (30°-60°)	8725.3	31.7			
FH (60°-80°)	2632.9	9.6			G2/5000
FVH (80°-90°)	91.5	0.3			G1/100
BL (0°-30°)	2293.8	8.3	B3/2500		
BM (30°-60°)	8725.3	31.7	B5		
BH (60°-80°)	2632.9	9.6	B4/5000		G2/5000
BVH (80°-90°)	91.5	0.3			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°	5309.2	5309.2	5309.2	5309.2	5309.2	5309.2	5309.2	5309.2	5309.2	5309.2	5309.2
2.5°	5277.5	5316.2	5288.0	5312.7	5309.2	5298.6	5281.0	5270.4	5256.3	5277.5	5242.2
5°	5256.3	5288.0	5319.7	5277.5	5277.5	5256.3	5245.8	5224.6	5224.6	5221.1	5217.6
7.5°	5291.6	5259.9	5245.8	5252.8	5259.9	5214.1	5245.8	5203.5	5168.3	5192.9	5221.1
10°	5259.9	5273.9	5221.1	5245.8	5207.0	5214.1	5192.9	5221.1	5182.3	5182.3	5182.3
12.5°	5291.6	5252.8	5270.4	5252.8	5242.2	5182.3	5210.5	5178.8	5175.3	5210.5	5178.8
15°	5355.0	5291.6	5277.5	5242.2	5252.8	5252.8	5224.6	5228.1	5189.4	5210.5	5217.6
17.5°	5333.8	5298.6	5288.0	5245.8	5281.0	5291.6	5238.7	5203.5	5228.1	5224.6	5221.1
20°	5351.5	5365.5	5355.0	5362.0	5376.1	5347.9	5298.6	5249.3	5217.6	5263.4	5259.9
22.5°	5464.2	5450.1	5443.0	5436.0	5460.7	5488.8	5421.9	5344.4	5344.4	5376.1	5390.2
25°	5555.8	5552.3	5548.7	5580.4	5665.0	5665.0	5580.4	5481.8	5457.1	5478.3	5460.7
27.5°	5689.7	5728.4	5714.3	5770.7	5894.0	5922.2	5809.4	5693.2	5626.2	5601.6	5633.3
30°	5996.2	5950.4	5960.9	6020.8	6130.0	6221.6	6049.0	5925.7	5834.1	5830.6	5844.7
32.5°	6200.5	6235.7	6267.4	6323.8	6496.4	6566.9	6359.0	6158.2	6101.9	6070.1	6080.7
35°	6609.2	6577.5	6570.4	6626.8	6799.4	6915.7	6655.0	6478.8	6404.8	6475.3	6475.3
37.5°	6996.7	6908.6	6841.7	6915.7	7074.2	7088.3	6866.3	6771.2	6732.5	6813.5	6810.0
40°	7179.9	7172.8	7017.8	7060.1	7271.5	7292.6	7084.8	6972.0	6965.0	7070.7	7176.4
42.5°	7370.1	7303.2	7148.2	7176.4	7306.7	7313.8	7116.5	7084.8	7162.3	7264.4	7271.5
45°	7401.8	7345.5	7246.8	7176.4	7271.5	7292.6	7176.4	7197.5	7204.6	7327.9	7327.9
47.5°	7465.3	7458.2	7401.8	7349.0	7366.6	7349.0	7275.0	7306.7	7412.4	7472.3	7444.1
50°	7641.4	7567.4	7623.8	7578.0	7581.5	7630.8	7563.9	7595.6	7574.5	7521.6	7486.4
52.5°	8028.9	7993.7	8043.0	8074.7	8110.0	8222.7	8145.2	7976.1	7817.6	7676.6	7673.1
55°	8596.1	8620.8	8715.9	8878.0	9015.4	9195.1	8821.6	8416.5	8162.8	7940.9	7955.0
57.5°	9131.6	9114.0	9244.4	9614.3	10015.9	10107.5	9374.7	8797.0	8384.8	8243.8	8183.9
59°	8701.8	8786.4	9082.3	9494.5	10125.1	10259.0	9300.7	8486.9	8050.1	7764.7	7814.0
60°	8025.4	8057.1	8321.3	8895.6	9748.2	9977.2	8804.0	8007.8	7426.5	7260.9	7334.9
62.5°	5672.0	5647.4	5837.6	6306.2	7070.7	7380.7	6545.7	5985.6	5619.2	5436.0	5478.3
65°	3015.7	3128.4	3205.9	3498.3	3903.5	4231.1	3885.9	3642.8	3438.5	3287.0	3283.4
67.5°	2036.3	2022.2	2039.8	2106.8	2244.2	2335.8	2328.7	2205.4	2187.8	2159.6	2191.3
70°	1715.7	1708.7	1677.0	1677.0	1705.1	1726.3	1750.9	1765.0	1793.2	1828.4	1824.9
72.5°	1391.6	1374.0	1352.8	1342.3	1377.5	1388.1	1419.8	1433.9	1458.5	1455.0	1486.7
75°	919.5	919.5	944.2	972.4	982.9	1004.1	1007.6	1049.9	1049.9	1056.9	1028.7
77.5°	514.4	500.3	517.9	546.1	570.7	609.5	648.2	679.9	697.6	690.5	690.5
80°	299.5	299.5	317.1	348.8	380.5	415.7	443.9	468.6	486.2	479.1	465.0
82.5°	186.7	186.7	204.3	236.0	260.7	281.8	320.6	352.3	373.4	366.4	348.8
85°	95.1	95.1	116.3	137.4	169.1	183.2	179.7	165.6	162.1	144.4	144.4
87.5°	24.7	24.7	35.2	38.8	31.7	35.2	35.2	35.2	35.2	35.2	38.8
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)