

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: P533451

Luminaire Tested: **GALN-SA8D-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23953 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

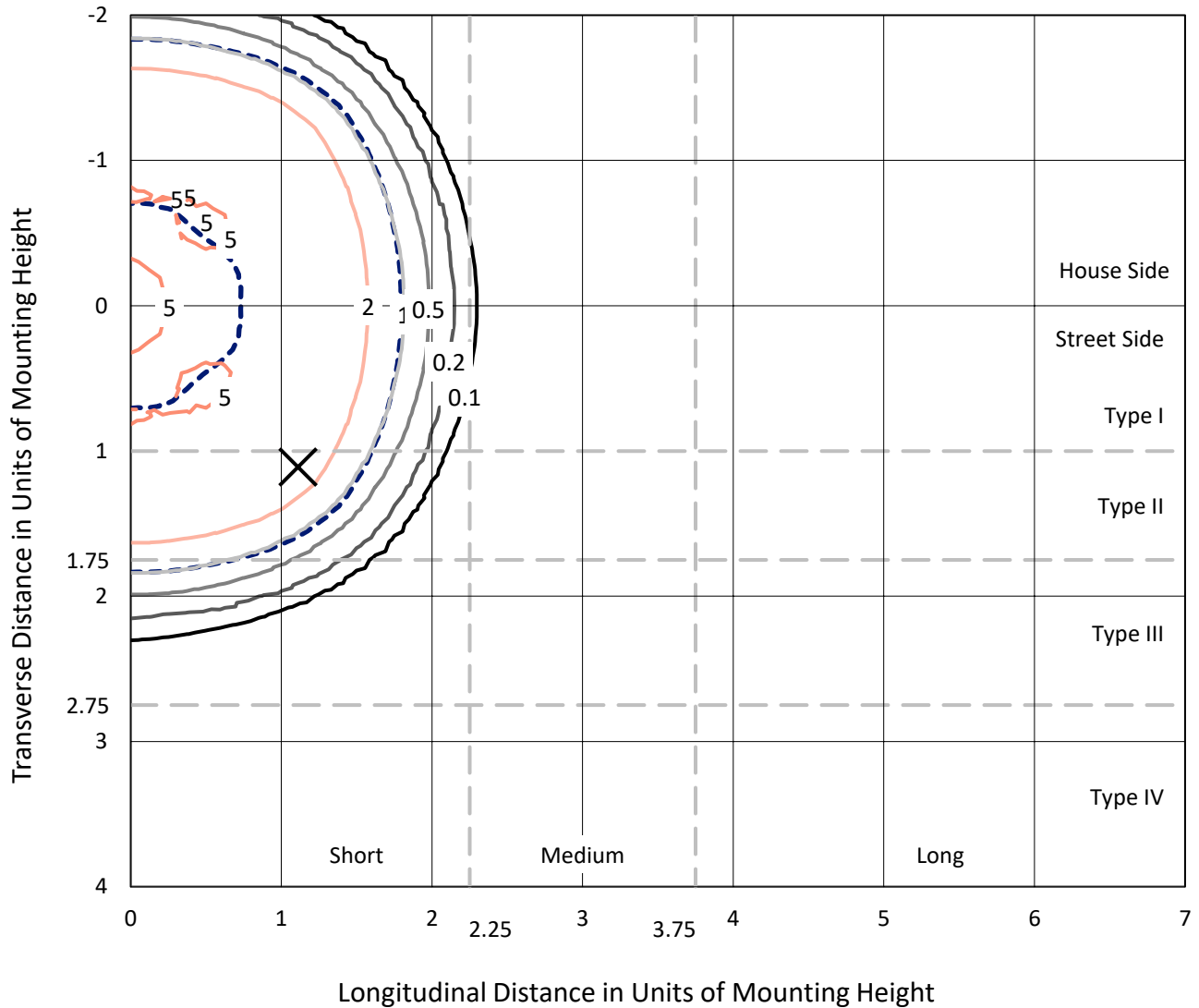
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

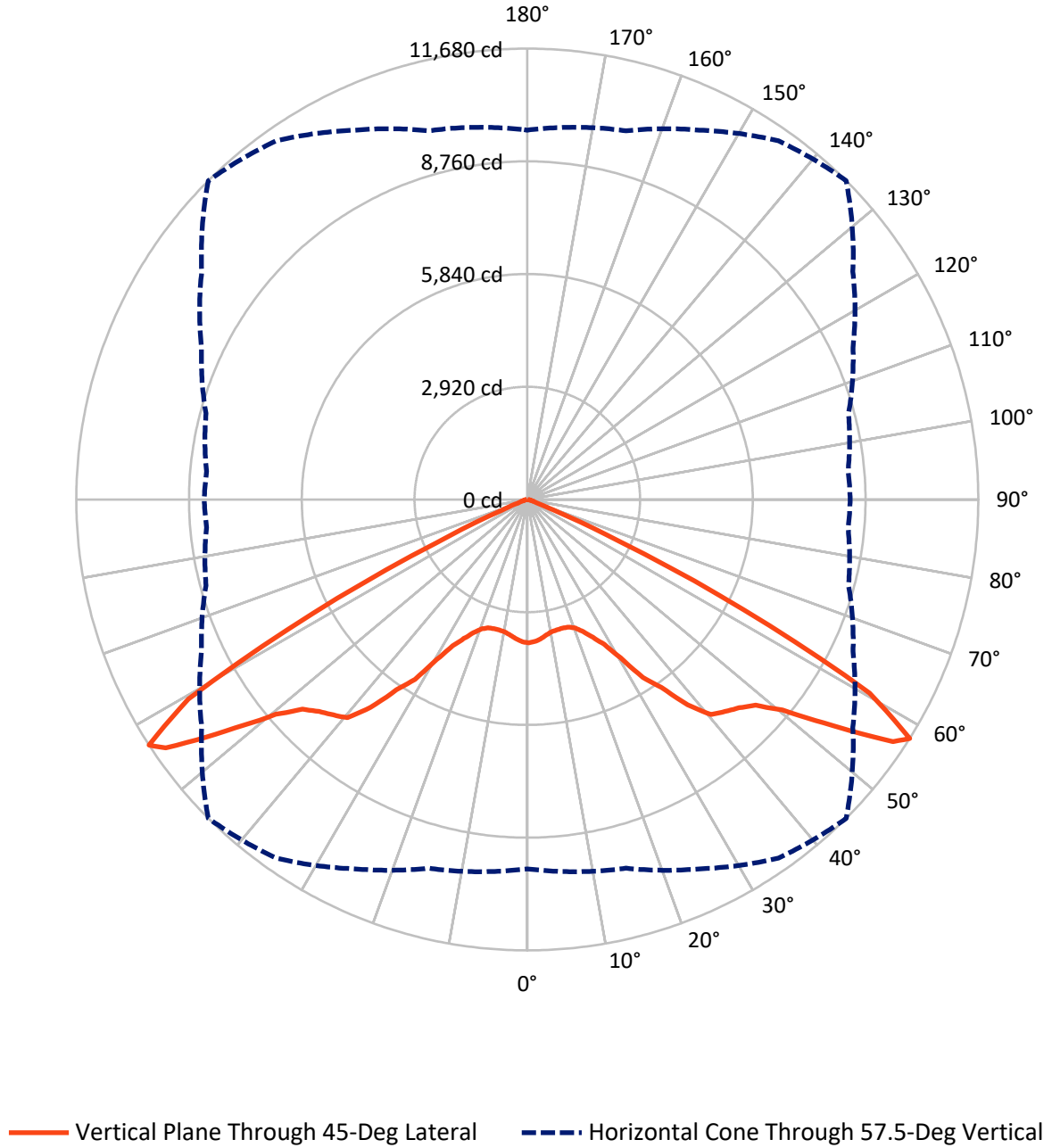
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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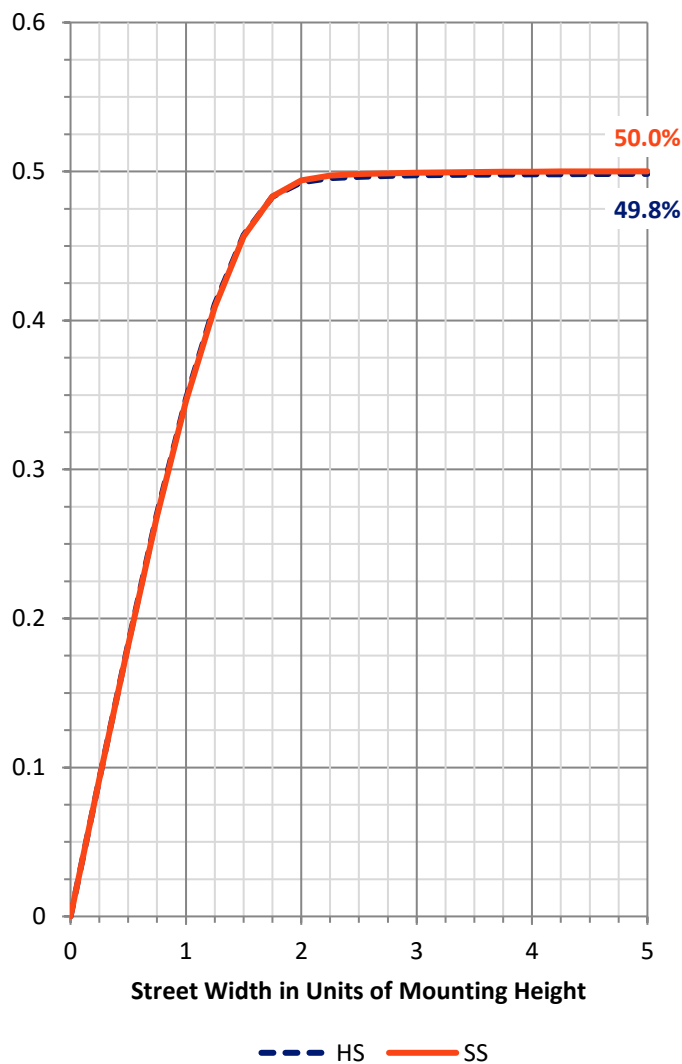
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11976.5	0.0	11976.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11976.5	0.0	11976.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23953.0	0.0	23953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	1.4
10°-20°	986.9	4.1
20°-30°	1821.6	7.6
30°-40°	3582.5	15.0
40°-50°	5834.8	24.4
50°-60°	8321.2	34.7
60°-70°	2881.0	12.0
70°-80°	154.6	0.6
80°-90°	29.0	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°	23953.0	100.0
0°-180°	23953.0	100.0

Coefficient of Utilization



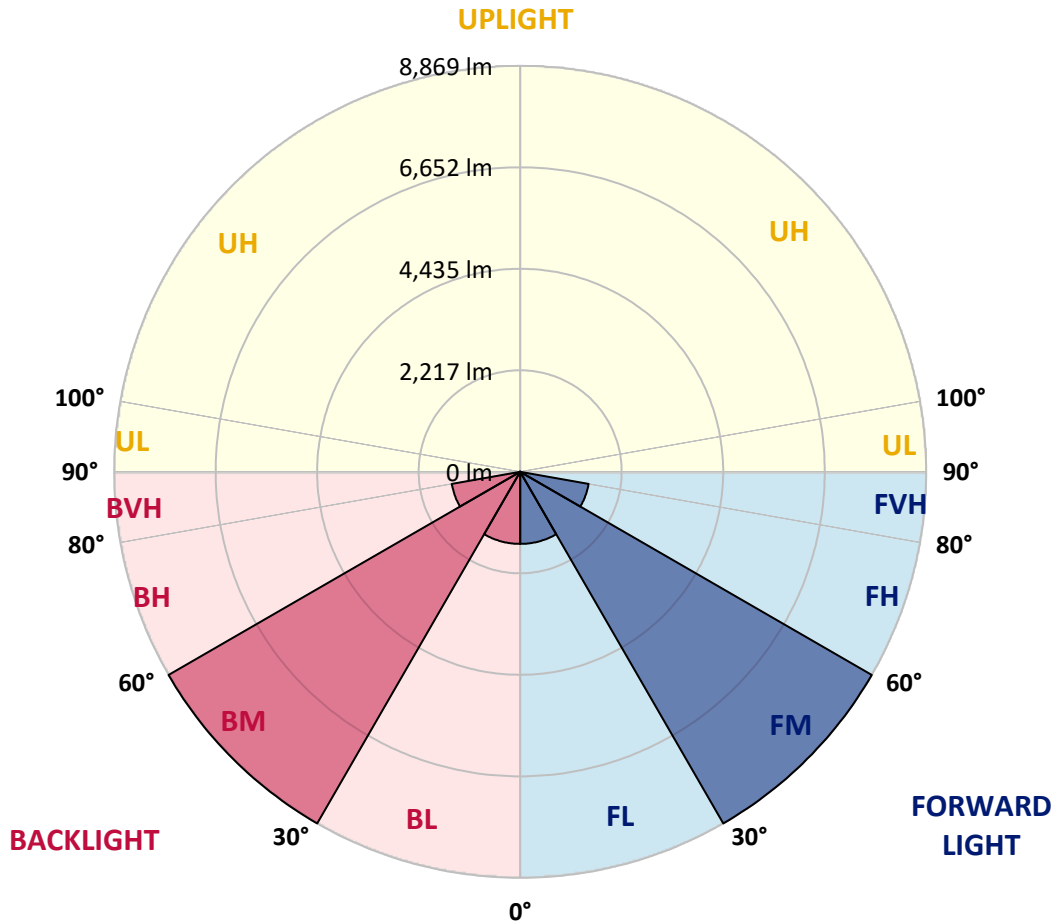
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.0	6.6			
FM (30°-60°)	8869.2	37.0			
FH (60°-80°)	1517.8	6.3			G1/1800
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	1575.0	6.6	B3/2500		
BM (30°-60°)	8869.2	37.0	B5		
BH (60°-80°)	1517.8	6.3	B3/2500		G1/1800
BVH (80°-90°)	14.5	0.1			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°	3715.4	3715.4	3715.4	3715.4	3715.4	3715.4	3715.4	3715.4	3715.4	3715.4	3715.4
2.5°	3705.4	3725.3	3700.4	3690.4	3685.4	3685.4	3670.4	3670.4	3665.4	3670.4	3650.4
5°	3645.4	3665.4	3665.4	3660.4	3630.5	3625.5	3610.5	3600.5	3605.5	3585.5	3600.5
7.5°	3585.5	3600.5	3580.5	3575.5	3565.5	3545.6	3540.6	3495.6	3500.6	3500.6	3510.6
10°	3575.5	3570.5	3540.6	3515.6	3485.6	3480.7	3465.7	3455.7	3455.7	3450.7	3465.7
12.5°	3575.5	3550.6	3545.6	3490.6	3440.7	3460.7	3420.7	3395.8	3430.7	3440.7	3460.7
15°	3570.5	3595.5	3510.6	3485.6	3450.7	3455.7	3420.7	3395.8	3415.7	3425.7	3440.7
17.5°	3600.5	3585.5	3560.6	3510.6	3495.6	3475.7	3430.7	3410.7	3410.7	3435.7	3440.7
20°	3680.4	3640.5	3590.5	3565.5	3580.5	3555.6	3500.6	3425.7	3445.7	3465.7	3480.7
22.5°	3755.3	3725.3	3690.4	3675.4	3760.3	3720.4	3625.5	3540.6	3510.6	3545.6	3570.5
25°	3900.1	3900.1	3835.2	3855.2	3950.1	3955.1	3845.2	3695.4	3675.4	3690.4	3700.4
27.5°	4194.8	4209.7	4154.8	4174.8	4214.7	4249.7	4154.8	4030.0	3985.0	3980.0	3995.0
30°	4514.4	4544.3	4539.3	4624.2	4739.1	4759.1	4619.2	4414.5	4279.7	4254.7	4274.7
32.5°	4933.8	4948.8	4938.8	5038.7	5348.3	5493.1	5128.6	4839.0	4659.2	4704.1	4659.2
35°	5722.9	5707.9	5598.0	5618.0	5872.7	5977.5	5628.0	5443.2	5358.3	5448.2	5428.2
37.5°	6402.0	6347.1	6257.2	6387.0	6651.7	6746.6	6382.0	6057.4	5902.6	6052.4	6117.4
40°	6976.3	6836.5	6711.6	6841.5	7196.0	7325.9	6791.5	6526.9	6466.9	6576.8	6716.6
42.5°	7460.7	7370.8	7206.0	7216.0	7450.7	7510.6	7081.2	6926.4	6866.4	7041.2	7111.1
45°	7805.3	7720.4	7565.6	7555.6	7735.3	7695.4	7310.9	7206.0	7241.0	7355.8	7390.8
47.5°	7980.0	8025.0	7935.1	7960.1	8054.9	7960.1	7655.4	7655.4	7575.5	7645.5	7610.5
50°	8484.4	8344.6	8459.4	8459.4	8559.3	8569.3	8264.7	8154.8	7940.1	7820.2	7820.2
52.5°	9073.7	9083.7	9128.6	9293.4	9463.2	9608.0	9173.5	8704.1	8344.6	8189.8	8169.8
55°	9558.1	9657.9	9837.7	10147.3	10636.7	10836.5	10087.4	9248.5	8809.0	8569.3	8519.4
56°	9822.7	9727.9	10037.5	10461.9	11101.1	11360.8	10237.2	9358.3	8873.9	8604.3	8599.3
57.5°	9568.1	9672.9	9887.7	10556.8	11340.8	11680.4	10292.1	9308.4	8614.2	8339.6	8364.6
60°	7555.6	7655.4	7945.1	8694.1	9922.6	10187.3	8709.1	7675.4	7056.2	6661.7	6666.7
62.5°	4274.7	4349.6	4574.3	5268.4	6032.5	6287.2	5428.2	4739.1	4309.6	4089.9	4020.0
65°	1573.0	1543.1	1578.0	1932.6	2402.0	2616.7	2257.2	1907.6	1682.9	1603.0	1573.0
67.5°	589.3	544.3	509.4	544.3	684.1	724.1	664.2	554.3	519.4	534.3	544.3
70°	364.5	344.6	274.7	259.7	254.7	249.7	264.7	279.7	319.6	374.5	384.5
72.5°	254.7	239.7	194.8	184.8	174.8	169.8	194.8	214.7	249.7	289.6	294.6
75°	99.9	104.9	99.9	109.9	114.9	119.9	139.8	154.8	169.8	169.8	164.8
77.5°	20.0	20.0	30.0	40.0	49.9	64.9	94.9	109.9	114.9	109.9	94.9
80°	0.0	0.0	10.0	20.0	40.0	54.9	84.9	94.9	104.9	94.9	74.9
82.5°	0.0	0.0	10.0	25.0	40.0	49.9	79.9	99.9	114.9	104.9	79.9
85°	0.0	0.0	10.0	20.0	30.0	35.0	35.0	25.0	25.0	15.0	10.0
87.5°	0.0	0.0	0.0	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)