

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: P534153

Luminaire Tested: **GALN-SA9C-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534153
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-SA9C-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 24439 lumens
Efficiency: N/A
Efficacy: 50.8 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

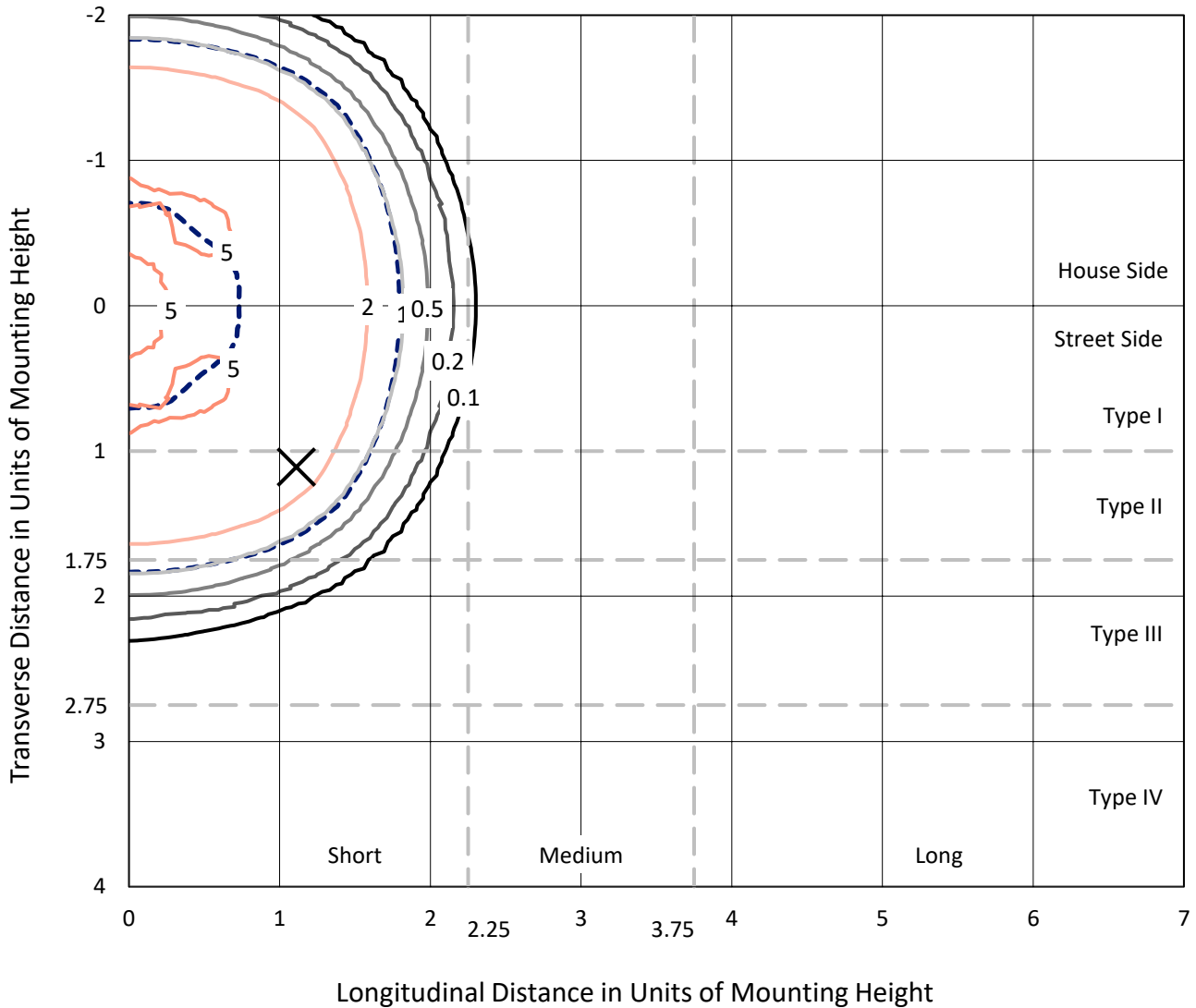
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

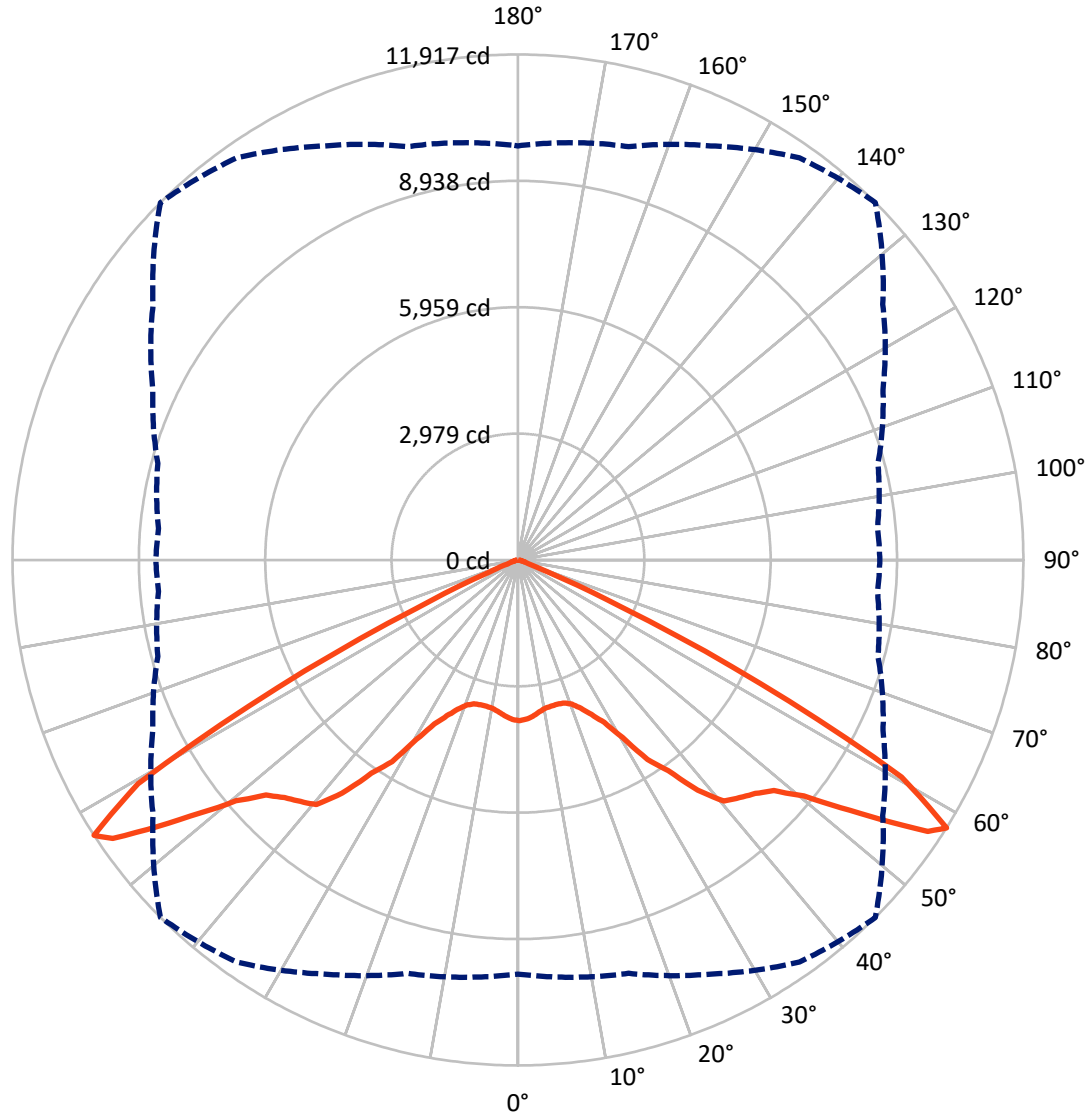
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12219.5	0.0	12219.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12219.5	0.0	12219.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24439.0	0.0	24439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	1.4
10°-20°	1006.9	4.1
20°-30°	1858.6	7.6
30°-40°	3655.1	15.0
40°-50°	5953.2	24.4
50°-60°	8490.0	34.7
60°-70°	2939.5	12.0
70°-80°	157.7	0.6
80°-90°	29.6	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°	24439.0	100.0
0°-180°	24439.0	100.0

Coefficient of Utilization

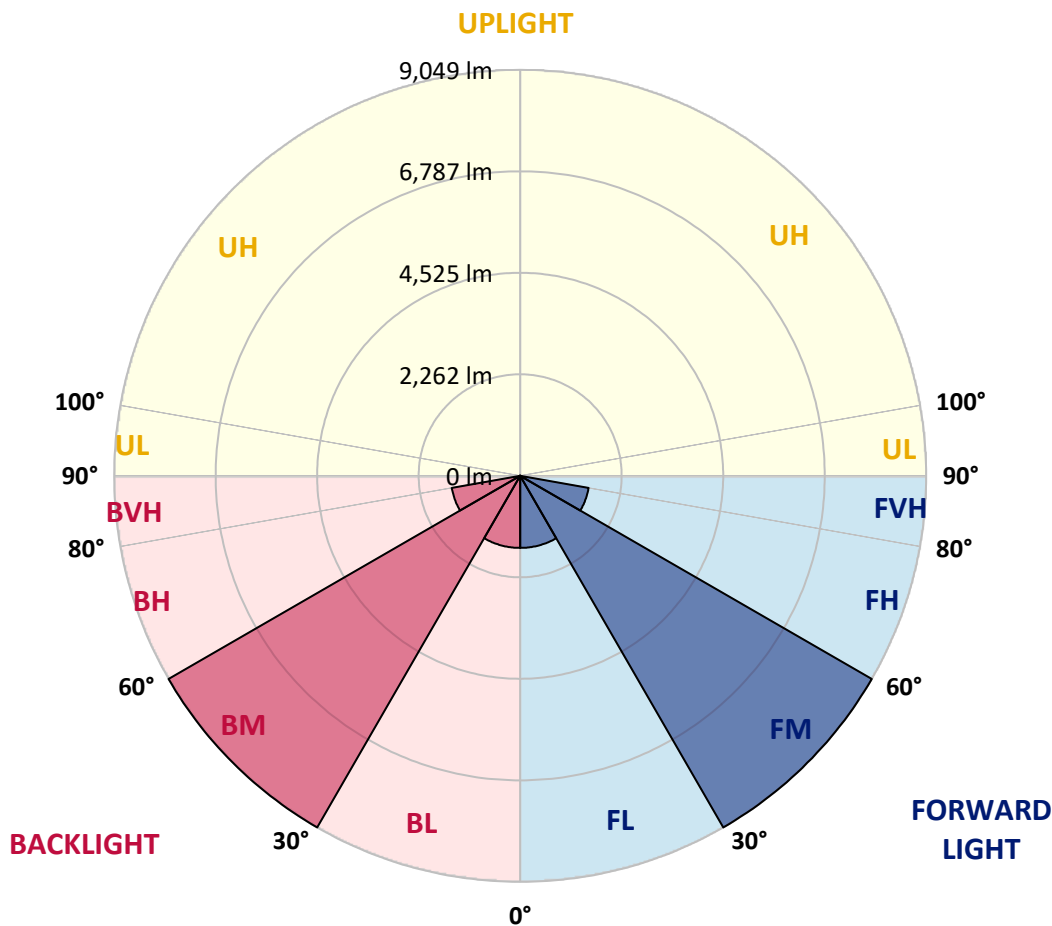


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1606.9	6.6			
FM (30°-60°)	9049.2	37.0			
FH (60°-80°)	1548.6	6.3			G1/1800
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	1606.9	6.6	B3/2500		
BM (30°-60°)	9049.2	37.0	B5		
BH (60°-80°)	1548.6	6.3	B3/2500		G1/1800
BVH (80°-90°)	14.8	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°	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7
2.5°	3780.6	3800.9	3775.5	3765.3	3760.2	3760.2	3744.9	3744.9	3739.8	3744.9	3724.5
5°	3719.4	3739.8	3739.8	3734.7	3704.1	3699.0	3683.7	3673.6	3678.7	3658.3	3673.6
7.5°	3658.3	3673.6	3653.2	3648.1	3637.9	3617.5	3612.4	3566.6	3571.7	3571.7	3581.8
10°	3648.1	3643.0	3612.4	3586.9	3556.4	3551.3	3536.0	3525.8	3525.8	3520.7	3536.0
12.5°	3648.1	3622.6	3617.5	3561.5	3510.5	3530.9	3490.1	3464.7	3500.3	3510.5	3530.9
15°	3643.0	3668.5	3581.8	3556.4	3520.7	3525.8	3490.1	3464.7	3485.0	3495.2	3510.5
17.5°	3673.6	3658.3	3632.8	3581.8	3566.6	3546.2	3500.3	3479.9	3479.9	3505.4	3510.5
20°	3755.1	3714.3	3663.4	3637.9	3653.2	3627.7	3571.7	3495.2	3515.6	3536.0	3551.3
22.5°	3831.5	3800.9	3765.3	3750.0	3836.6	3795.8	3699.0	3612.4	3581.8	3617.5	3643.0
25°	3979.3	3979.3	3913.0	3933.4	4030.2	4035.3	3923.2	3770.4	3750.0	3765.3	3775.5
27.5°	4279.9	4295.2	4239.1	4259.5	4300.3	4335.9	4239.1	4111.7	4065.9	4060.8	4076.1
30°	4606.0	4636.5	4631.4	4718.1	4835.2	4855.6	4713.0	4504.1	4366.5	4341.0	4361.4
32.5°	5033.9	5049.2	5039.0	5140.9	5456.8	5604.6	5232.7	4937.1	4753.7	4799.6	4753.7
35°	5839.0	5823.7	5711.6	5732.0	5991.8	6098.8	5742.2	5553.6	5467.0	5558.7	5538.4
37.5°	6531.9	6475.9	6384.1	6516.6	6786.7	6883.5	6511.5	6180.3	6022.4	6175.2	6241.5
40°	7117.8	6975.2	6847.8	6980.3	7342.0	7474.5	6929.3	6659.3	6598.1	6710.2	6852.9
42.5°	7612.1	7520.3	7352.2	7362.4	7601.9	7663.0	7224.8	7066.9	7005.7	7184.1	7255.4
45°	7963.6	7877.0	7719.1	7708.9	7892.3	7851.5	7459.2	7352.2	7387.9	7505.1	7540.7
47.5°	8141.9	8187.8	8096.1	8121.6	8218.4	8121.6	7810.8	7810.8	7729.2	7800.6	7764.9
50°	8656.6	8513.9	8631.1	8631.1	8733.0	8743.2	8432.4	8320.3	8101.2	7978.9	7978.9
52.5°	9257.8	9268.0	9313.8	9482.0	9655.2	9802.9	9359.7	8880.7	8513.9	8355.9	8335.6
55°	9752.0	9853.9	10037.3	10353.2	10852.5	11056.3	10292.1	9436.1	8987.7	8743.2	8692.2
56°	10022.0	9925.2	10241.1	10674.2	11326.4	11591.3	10444.9	9548.2	9054.0	8778.8	8773.7
57.5°	9762.2	9869.2	10088.3	10771.0	11570.9	11917.4	10501.0	9497.2	8789.0	8508.8	8534.3
60°	7708.9	7810.8	8106.3	8870.5	10123.9	10394.0	8885.8	7831.1	7199.4	6796.8	6801.9
62.5°	4361.4	4437.8	4667.1	5375.3	6154.9	6414.7	5538.4	4835.2	4397.1	4172.9	4101.5
65°	1605.0	1574.4	1610.0	1971.8	2450.7	2669.8	2303.0	1946.3	1717.0	1635.5	1605.0
67.5°	601.2	555.4	519.7	555.4	698.0	738.8	677.6	565.6	529.9	545.2	555.4
70°	371.9	351.6	280.2	264.9	259.8	254.8	270.0	285.3	326.1	382.1	392.3
72.5°	259.8	244.6	198.7	188.5	178.3	173.2	198.7	219.1	254.8	295.5	300.6
75°	101.9	107.0	101.9	112.1	117.2	122.3	142.7	157.9	173.2	173.2	168.1
77.5°	20.4	20.4	30.6	40.8	51.0	66.2	96.8	112.1	117.2	112.1	96.8
80°	0.0	0.0	10.2	20.4	40.8	56.0	86.6	96.8	107.0	96.8	76.4
82.5°	0.0	0.0	10.2	25.5	40.8	51.0	81.5	101.9	117.2	107.0	81.5
85°	0.0	0.0	10.2	20.4	30.6	35.7	35.7	25.5	25.5	15.3	10.2
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)