

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: P533555

Luminaire Tested: **GALN-SA9A-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533555
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-SA9A-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 19694 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

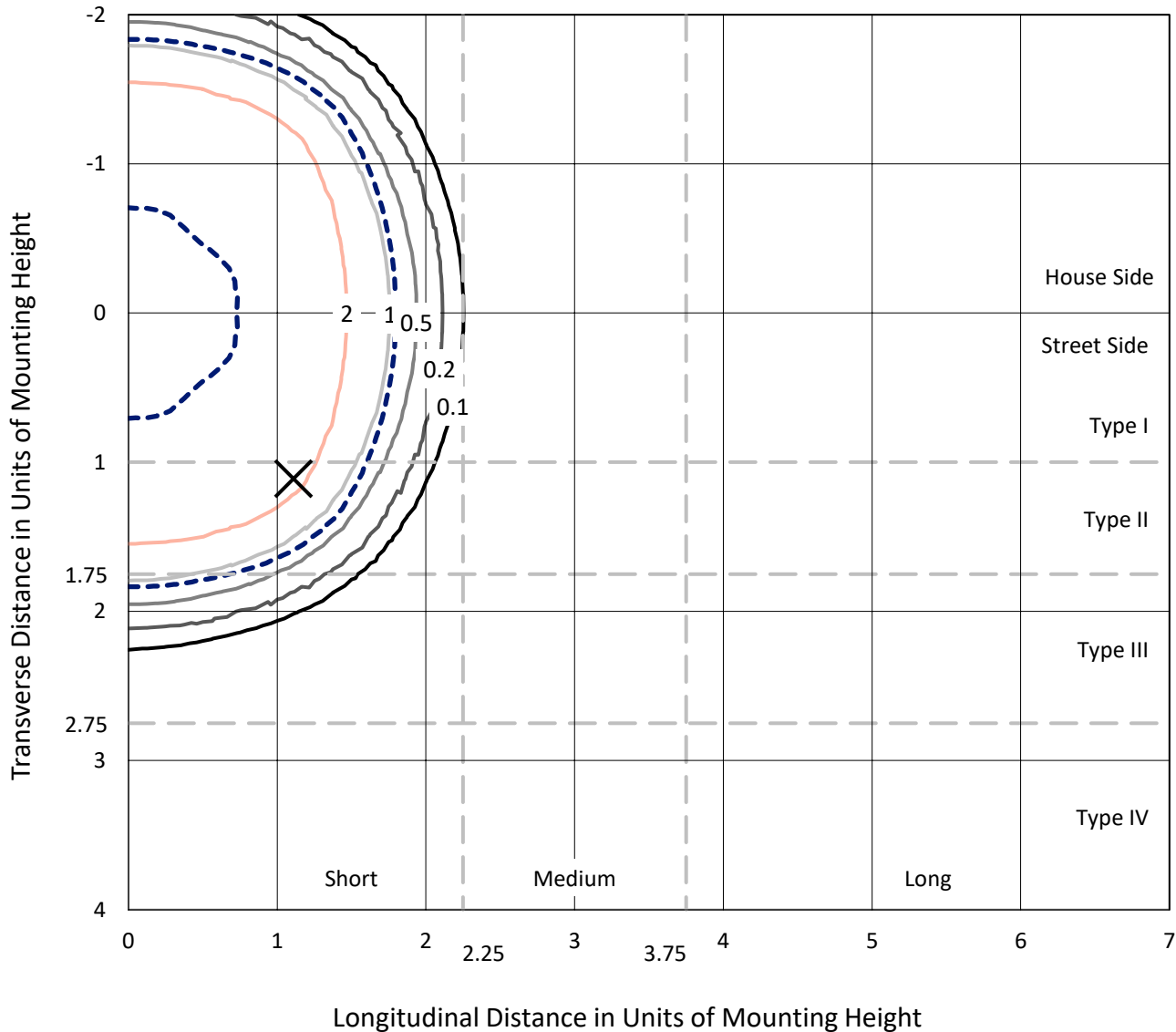
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

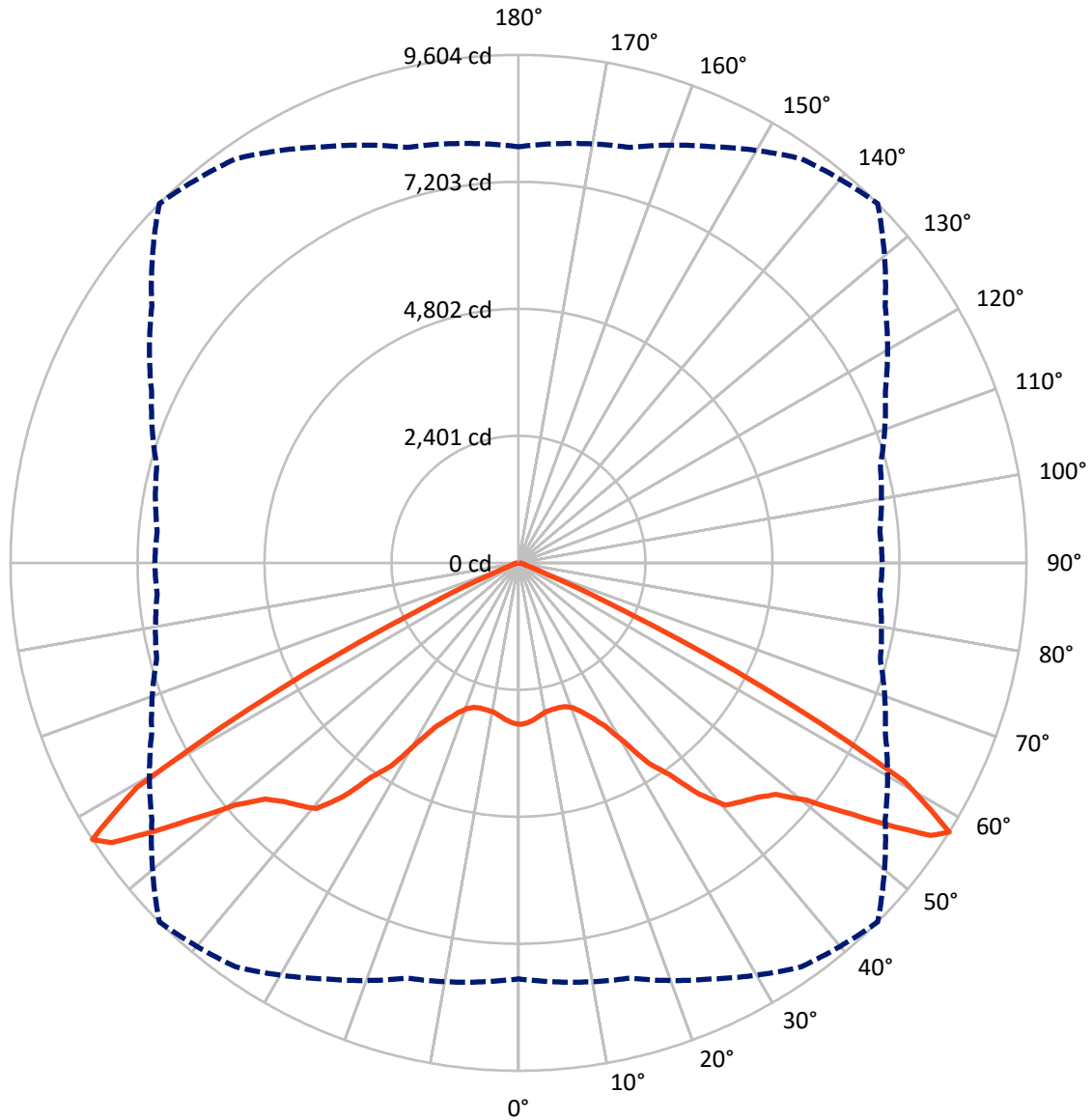
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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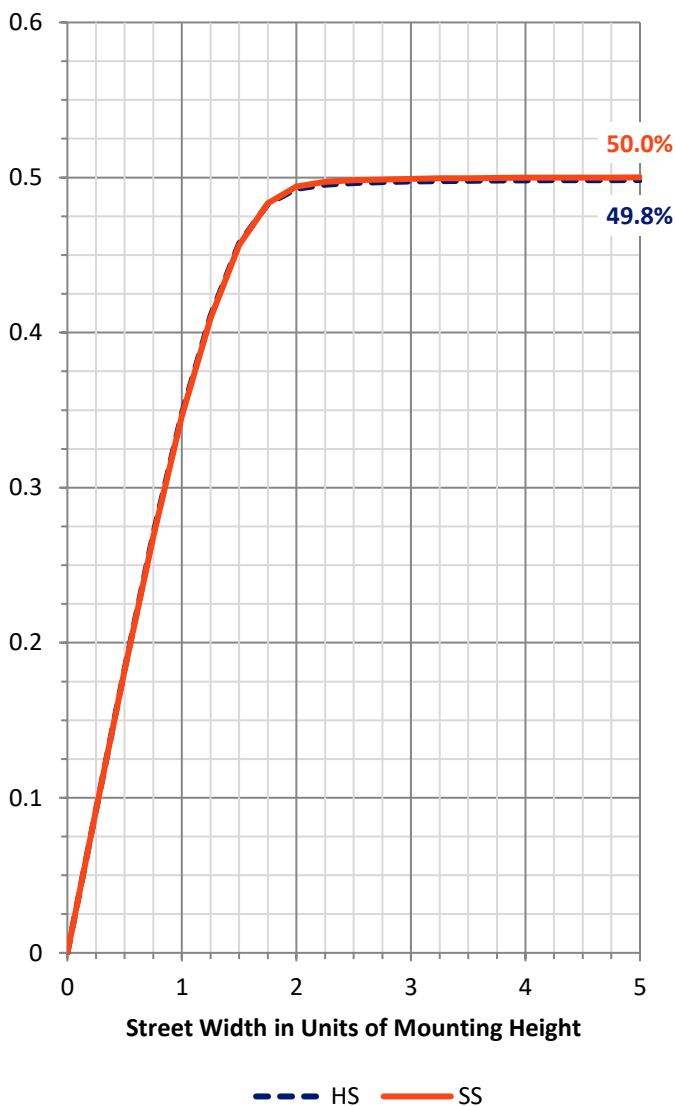
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9847.0	0.0	9847.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9847.0	0.0	9847.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19694.0	0.0	19694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	1.4
10°-20°	811.4	4.1
20°-30°	1497.7	7.6
30°-40°	2945.5	15.0
40°-50°	4797.4	24.4
50°-60°	6841.6	34.7
60°-70°	2368.7	12.0
70°-80°	127.1	0.6
80°-90°	23.9	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°	19694.0	100.0
0°-180°	19694.0	100.0

Coefficient of Utilization



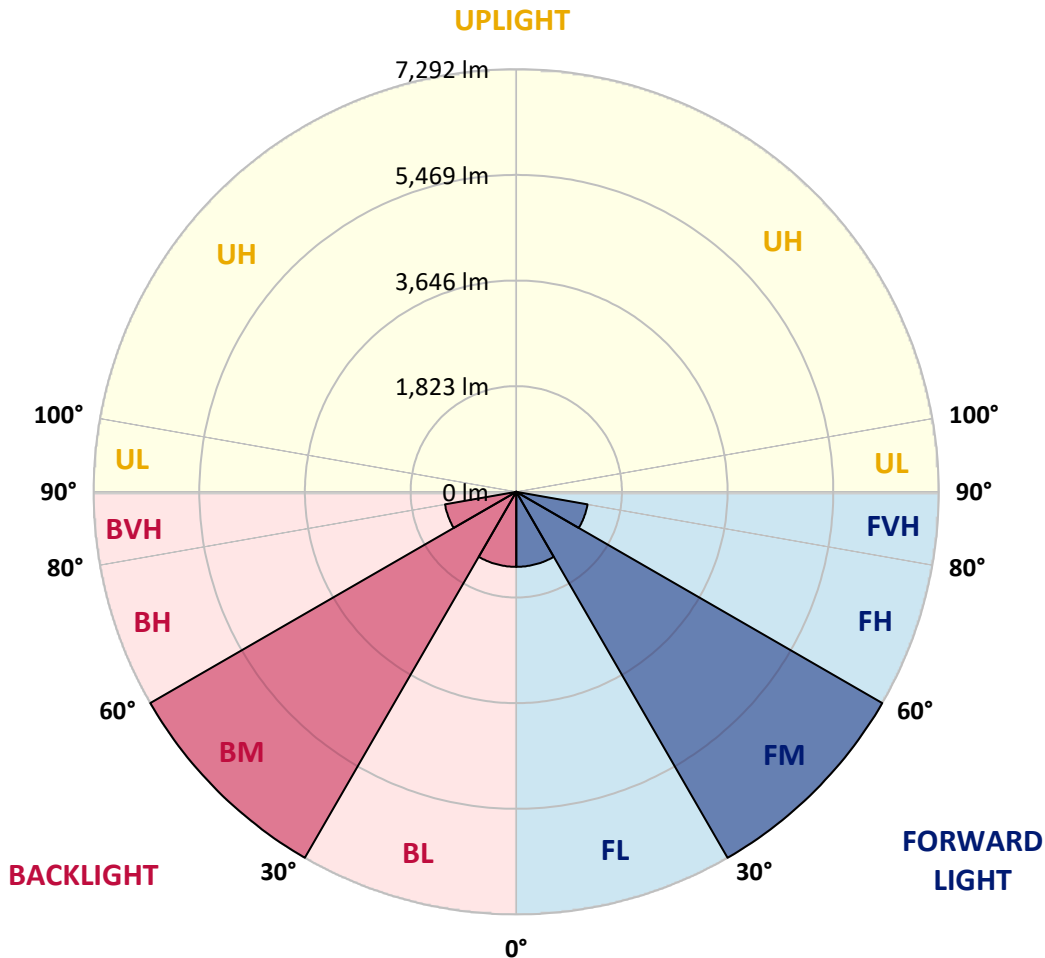
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.9	6.6			
FM (30°-60°)	7292.2	37.0			
FH (60°-80°)	1247.9	6.3			G1/1800
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	1294.9	6.6	B3/2500		
BM (30°-60°)	7292.2	37.0	B4/8500		
BH (60°-80°)	1247.9	6.3	B3/2500		G1/1800
BVH (80°-90°)	11.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7
2.5°	3046.5	3063.0	3042.4	3034.2	3030.1	3030.1	3017.8	3017.8	3013.7	3017.8	3001.4
5°	2997.3	3013.7	3013.7	3009.6	2984.9	2980.8	2968.5	2960.3	2964.4	2948.0	2960.3
7.5°	2948.0	2960.3	2943.9	2939.8	2931.6	2915.1	2911.0	2874.1	2878.2	2878.2	2886.4
10°	2939.8	2935.7	2911.0	2890.5	2865.9	2861.8	2849.5	2841.2	2841.2	2837.1	2849.5
12.5°	2939.8	2919.3	2915.1	2870.0	2828.9	2845.3	2812.5	2792.0	2820.7	2828.9	2845.3
15°	2935.7	2956.2	2886.4	2865.9	2837.1	2841.2	2812.5	2792.0	2808.4	2816.6	2828.9
17.5°	2960.3	2948.0	2927.5	2886.4	2874.1	2857.7	2820.7	2804.3	2804.3	2824.8	2828.9
20°	3026.0	2993.2	2952.1	2931.6	2943.9	2923.4	2878.2	2816.6	2833.0	2849.5	2861.8
22.5°	3087.6	3063.0	3034.2	3021.9	3091.7	3058.9	2980.8	2911.0	2886.4	2915.1	2935.7
25°	3206.7	3206.7	3153.3	3169.7	3247.7	3251.8	3161.5	3038.3	3021.9	3034.2	3042.4
27.5°	3448.9	3461.2	3416.1	3432.5	3465.3	3494.1	3416.1	3313.4	3276.5	3272.4	3284.7
30°	3711.7	3736.3	3732.2	3802.0	3896.4	3912.9	3797.9	3629.6	3518.7	3498.2	3514.6
32.5°	4056.6	4068.9	4060.7	4142.8	4397.4	4516.4	4216.7	3978.6	3830.7	3867.7	3830.7
35°	4705.3	4693.0	4602.6	4619.1	4828.5	4914.7	4627.3	4475.4	4405.6	4479.5	4463.0
37.5°	5263.7	5218.5	5144.6	5251.4	5469.0	5547.0	5247.3	4980.4	4853.1	4976.3	5029.7
40°	5735.9	5620.9	5518.3	5625.0	5916.5	6023.3	5583.9	5366.3	5317.1	5407.4	5522.4
42.5°	6134.1	6060.2	5924.7	5932.9	6125.9	6175.2	5822.1	5694.8	5645.5	5789.2	5846.7
45°	6417.4	6347.6	6220.3	6212.1	6359.9	6327.1	6011.0	5924.7	5953.5	6047.9	6076.6
47.5°	6561.1	6598.1	6524.2	6544.7	6622.7	6544.7	6294.3	6294.3	6228.6	6286.0	6257.3
50°	6975.8	6860.9	6955.3	6955.3	7037.4	7045.6	6795.2	6704.8	6528.3	6429.7	6429.7
52.5°	7460.3	7468.5	7505.5	7641.0	7780.6	7899.6	7542.4	7156.5	6860.9	6733.6	6717.2
55°	7858.6	7940.7	8088.5	8343.1	8745.4	8909.7	8293.8	7604.0	7242.7	7045.6	7004.6
56°	8076.2	7998.2	8252.7	8601.7	9127.3	9340.8	8417.0	7694.3	7296.1	7074.4	7070.3
57.5°	7866.8	7953.0	8129.6	8679.7	9324.4	9603.6	8462.1	7653.3	7082.6	6856.8	6877.3
60°	6212.1	6294.3	6532.4	7148.3	8158.3	8375.9	7160.6	6310.7	5801.6	5477.2	5481.3
62.5°	3514.6	3576.2	3761.0	4331.7	4959.9	5169.3	4463.0	3896.4	3543.3	3362.7	3305.2
65°	1293.3	1268.7	1297.4	1589.0	1974.9	2151.5	1855.8	1568.4	1383.7	1318.0	1293.3
67.5°	484.5	447.5	418.8	447.5	562.5	595.3	546.1	455.7	427.0	439.3	447.5
70°	299.7	283.3	225.8	213.5	209.4	205.3	217.6	229.9	262.8	307.9	316.1
72.5°	209.4	197.1	160.1	151.9	143.7	139.6	160.1	176.6	205.3	238.1	242.2
75°	82.1	86.2	82.1	90.3	94.4	98.5	115.0	127.3	139.6	139.6	135.5
77.5°	16.4	16.4	24.6	32.8	41.1	53.4	78.0	90.3	94.4	90.3	78.0
80°	0.0	0.0	8.2	16.4	32.8	45.2	69.8	78.0	86.2	78.0	61.6
82.5°	0.0	0.0	8.2	20.5	32.8	41.1	65.7	82.1	94.4	86.2	65.7
85°	0.0	0.0	8.2	16.4	24.6	28.7	28.7	20.5	20.5	12.3	8.2
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)