

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: P531917

Luminaire Tested: **GALN-SA7B-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531917
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-SA7B-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 18828 lumens
Efficiency: N/A
Efficacy: 65.8 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

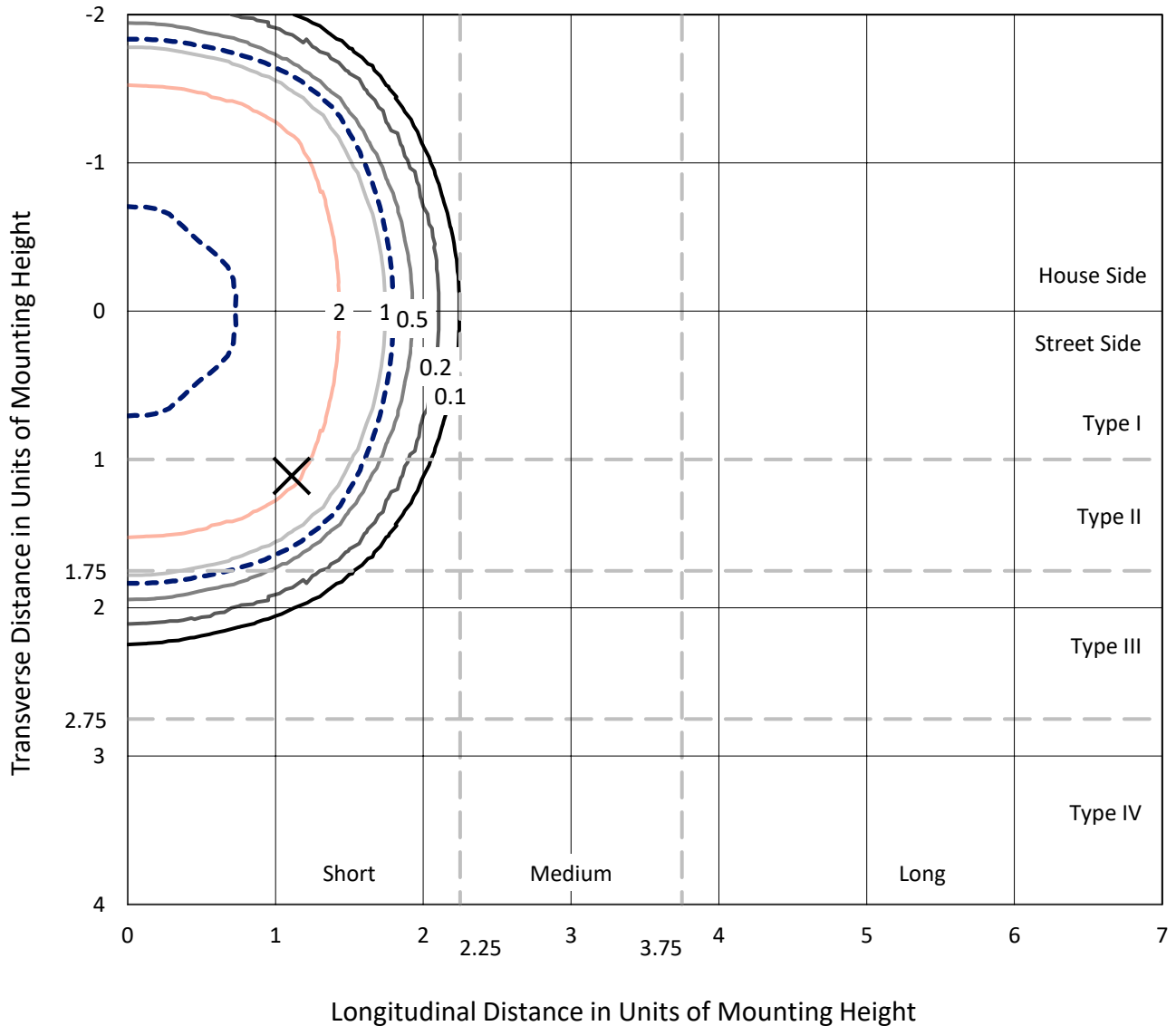
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

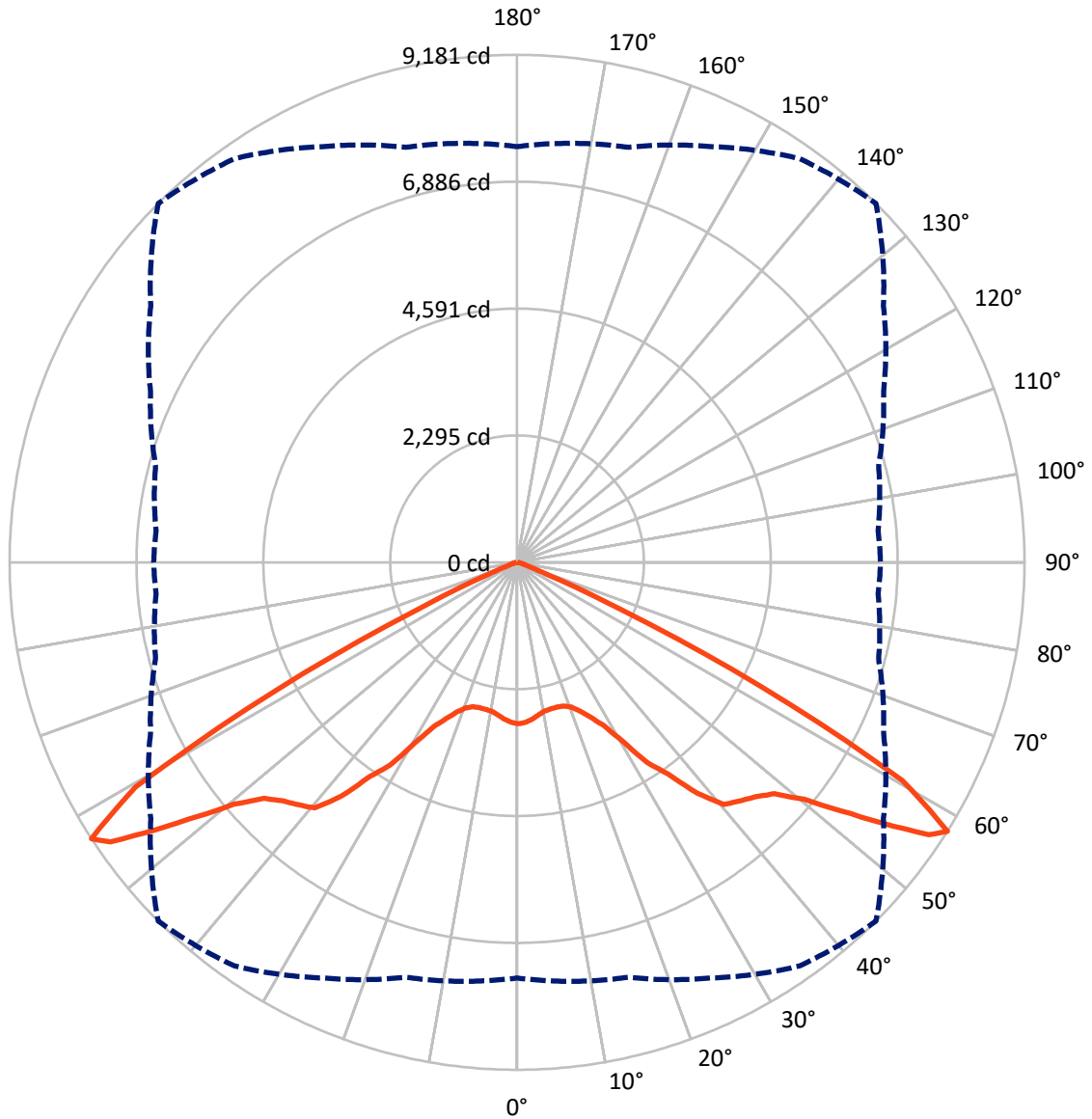
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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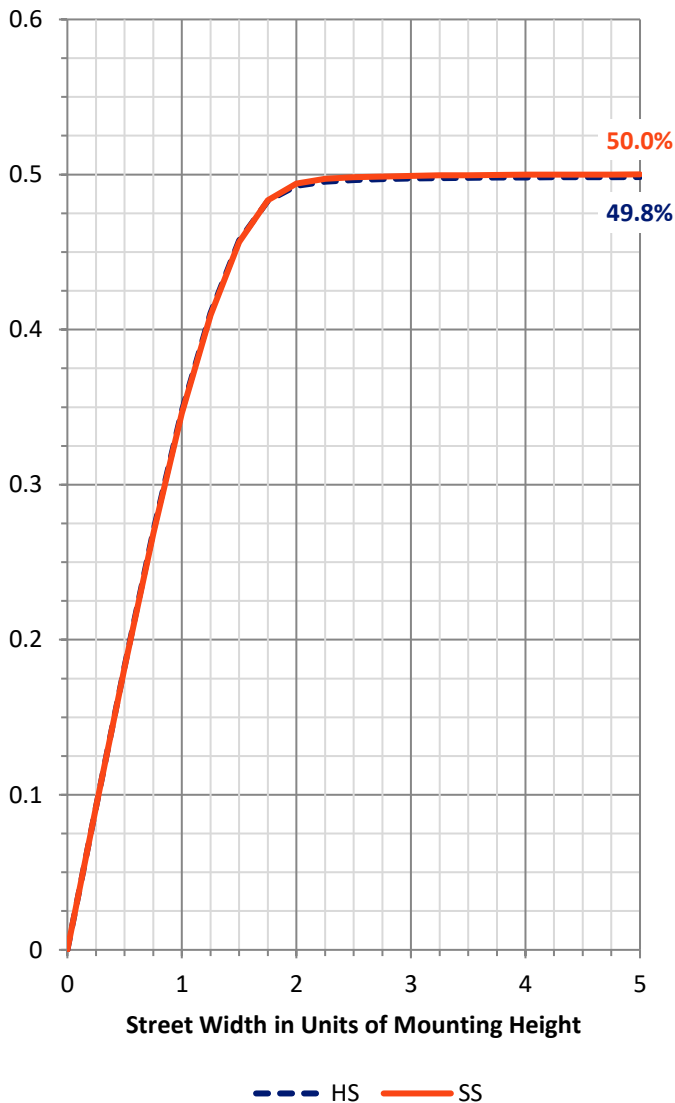
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9414.0	0.0	9414.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9414.0	0.0	9414.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18828.0	0.0	18828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	1.4
10°-20°	775.7	4.1
20°-30°	1431.9	7.6
30°-40°	2816.0	15.0
40°-50°	4586.4	24.4
50°-60°	6540.8	34.7
60°-70°	2264.6	12.0
70°-80°	121.5	0.6
80°-90°	22.8	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°	18828.0	100.0
0°-180°	18828.0	100.0

Coefficient of Utilization



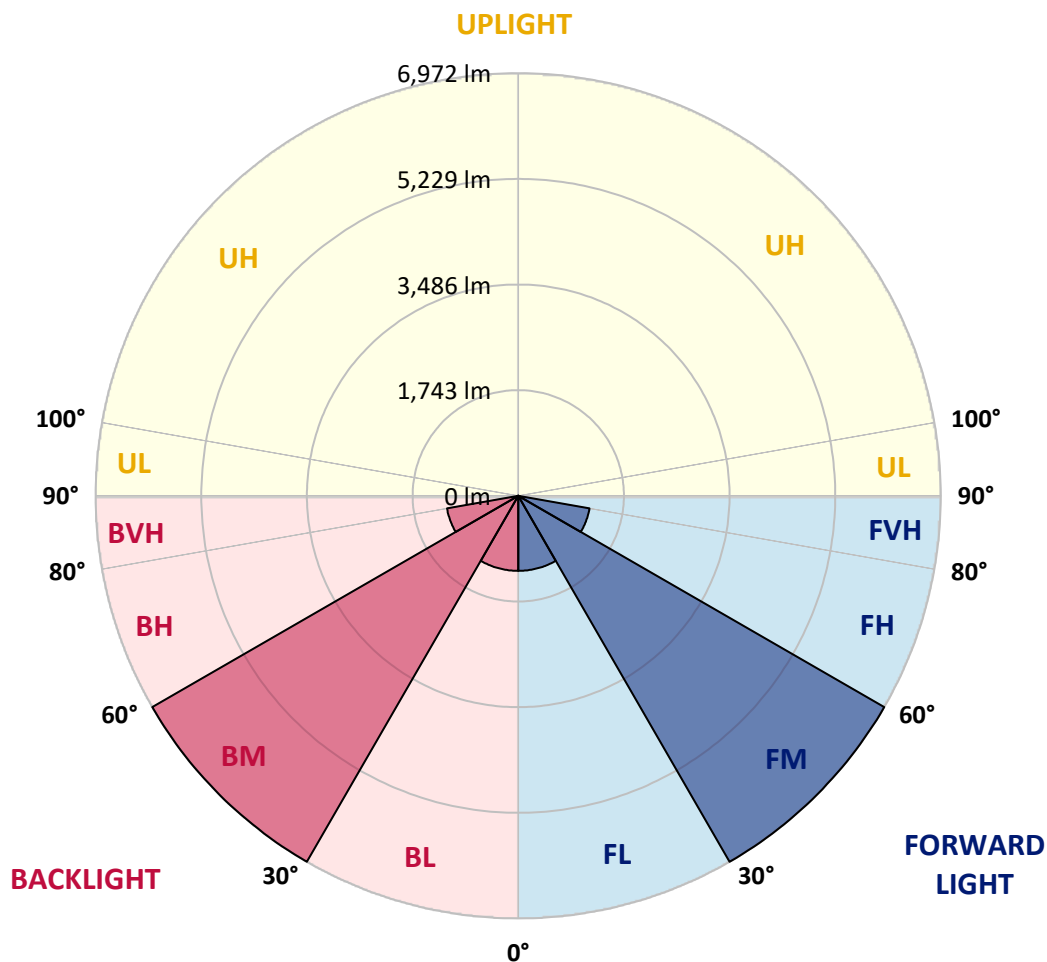
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.0	6.6			
FM (30°-60°)	6971.6	37.0			
FH (60°-80°)	1193.0	6.3			G1/1800
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1238.0	6.6	B3/2500		
BM (30°-60°)	6971.6	37.0	B4/8500		
BH (60°-80°)	1193.0	6.3	B3/2500		G1/1800
BVH (80°-90°)	11.4	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°	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4
2.5°	2912.6	2928.3	2908.6	2900.8	2896.9	2896.9	2885.1	2885.1	2881.2	2885.1	2869.4
5°	2865.5	2881.2	2881.2	2877.2	2853.7	2849.8	2838.0	2830.1	2834.1	2818.4	2830.1
7.5°	2818.4	2830.1	2814.4	2810.5	2802.7	2787.0	2783.0	2747.7	2751.6	2751.6	2759.5
10°	2810.5	2806.6	2783.0	2763.4	2739.9	2735.9	2724.2	2716.3	2716.3	2712.4	2724.2
12.5°	2810.5	2790.9	2787.0	2743.8	2704.5	2720.2	2688.8	2669.2	2696.7	2704.5	2720.2
15°	2806.6	2826.2	2759.5	2739.9	2712.4	2716.3	2688.8	2669.2	2684.9	2692.8	2704.5
17.5°	2830.1	2818.4	2798.7	2759.5	2747.7	2732.0	2696.7	2681.0	2681.0	2700.6	2704.5
20°	2892.9	2861.5	2822.3	2802.7	2814.4	2794.8	2751.6	2692.8	2708.5	2724.2	2735.9
22.5°	2951.8	2928.3	2900.8	2889.0	2955.7	2924.3	2849.8	2783.0	2759.5	2787.0	2806.6
25°	3065.7	3065.7	3014.6	3030.3	3104.9	3108.8	3022.5	2904.7	2889.0	2900.8	2908.6
27.5°	3297.2	3309.0	3265.8	3281.5	3312.9	3340.4	3265.8	3167.7	3132.4	3128.5	3140.2
30°	3548.5	3572.0	3568.1	3634.8	3725.1	3740.8	3630.9	3470.0	3364.0	3344.4	3360.1
32.5°	3878.2	3890.0	3882.1	3960.6	4204.0	4317.8	4031.3	3803.6	3662.3	3697.6	3662.3
35°	4498.4	4486.6	4400.3	4416.0	4616.1	4698.6	4423.8	4278.6	4211.8	4282.5	4266.8
37.5°	5032.2	4989.1	4918.4	5020.5	5228.5	5303.1	5016.5	4761.4	4639.7	4757.5	4808.5
40°	5483.6	5373.7	5275.6	5377.7	5656.4	5758.4	5338.4	5130.4	5083.3	5169.6	5279.5
42.5°	5864.4	5793.7	5664.2	5672.1	5856.5	5903.6	5566.1	5444.4	5397.3	5534.7	5589.6
45°	6135.2	6068.5	5946.8	5939.0	6080.3	6048.9	5746.6	5664.2	5691.7	5782.0	5809.4
47.5°	6272.6	6308.0	6237.3	6256.9	6331.5	6256.9	6017.5	6017.5	5954.7	6009.6	5982.2
50°	6669.1	6559.2	6649.5	6649.5	6728.0	6735.8	6496.4	6410.0	6241.2	6147.0	6147.0
52.5°	7132.3	7140.1	7175.4	7305.0	7438.4	7552.3	7210.8	6841.8	6559.2	6437.5	6421.8
55°	7513.0	7591.5	7732.8	7976.2	8360.9	8517.9	7929.1	7269.6	6924.2	6735.8	6696.6
56°	7721.1	7646.5	7889.8	8223.5	8725.9	8930.0	8046.9	7356.0	6975.3	6763.3	6759.4
57.5°	7520.9	7603.3	7772.1	8298.1	8914.3	9181.3	8090.0	7316.8	6771.1	6555.2	6574.9
60°	5939.0	6017.5	6245.1	6833.9	7799.6	8007.6	6845.7	6033.2	5546.4	5236.3	5240.3
62.5°	3360.1	3418.9	3595.6	4141.2	4741.8	4941.9	4266.8	3725.1	3387.5	3214.8	3159.9
65°	1236.5	1212.9	1240.4	1519.1	1888.1	2056.9	1774.2	1499.5	1322.8	1260.0	1236.5
67.5°	463.2	427.9	400.4	427.9	537.8	569.2	522.1	435.7	408.2	420.0	427.9
70°	286.5	270.8	215.9	204.1	200.2	196.3	208.0	219.8	251.2	294.4	302.2
72.5°	200.2	188.4	153.1	145.2	137.4	133.5	153.1	168.8	196.3	227.7	231.6
75°	78.5	82.4	78.5	86.4	90.3	94.2	109.9	121.7	133.5	133.5	129.5
77.5°	15.7	15.7	23.6	31.4	39.3	51.0	74.6	86.4	90.3	86.4	74.6
80°	0.0	0.0	7.9	15.7	31.4	43.2	66.7	74.6	82.4	74.6	58.9
82.5°	0.0	0.0	7.9	19.6	31.4	39.3	62.8	78.5	90.3	82.4	62.8
85°	0.0	0.0	7.9	15.7	23.6	27.5	27.5	19.6	19.6	11.8	7.9
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)