

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: P456021

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37777 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

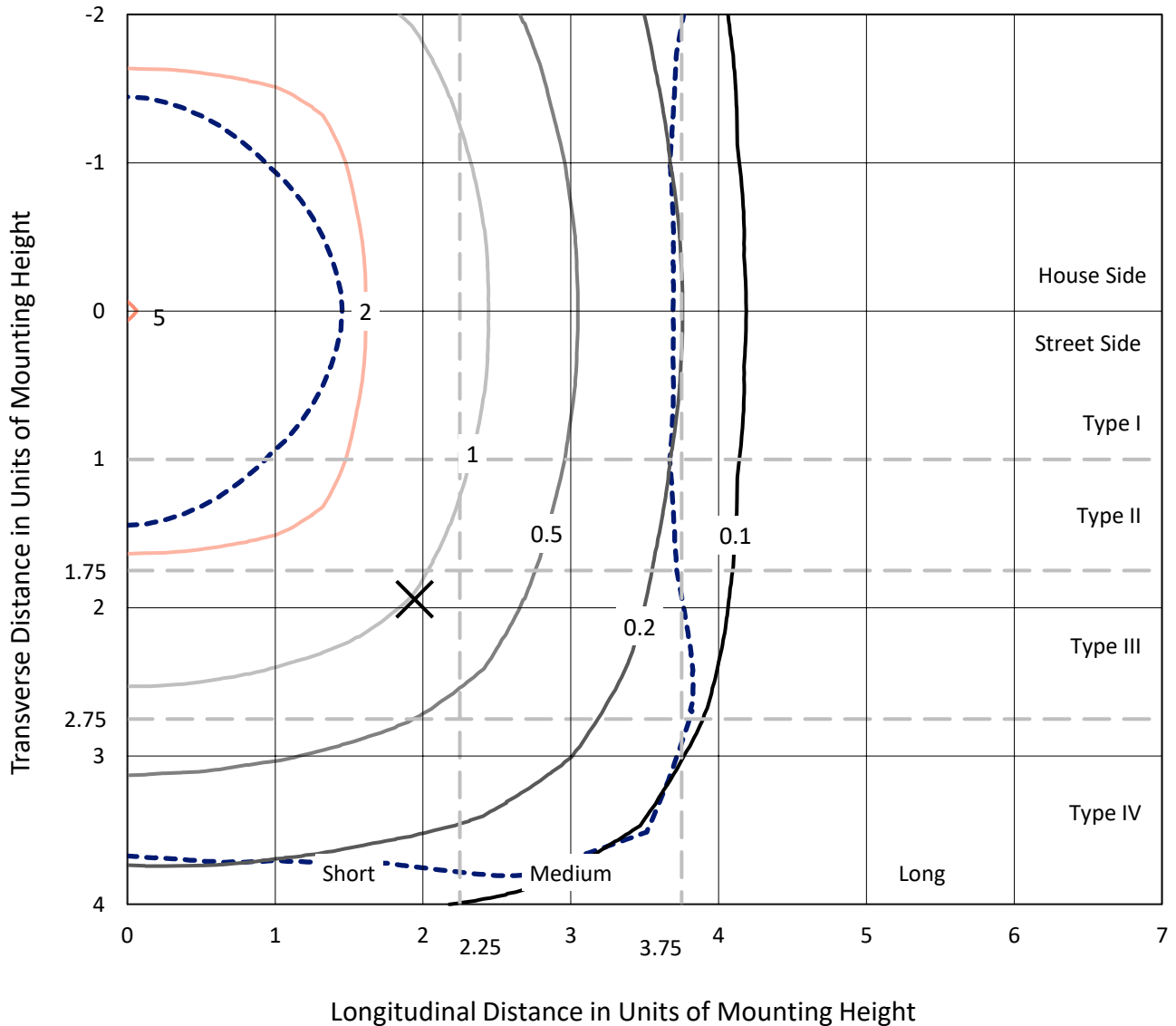
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

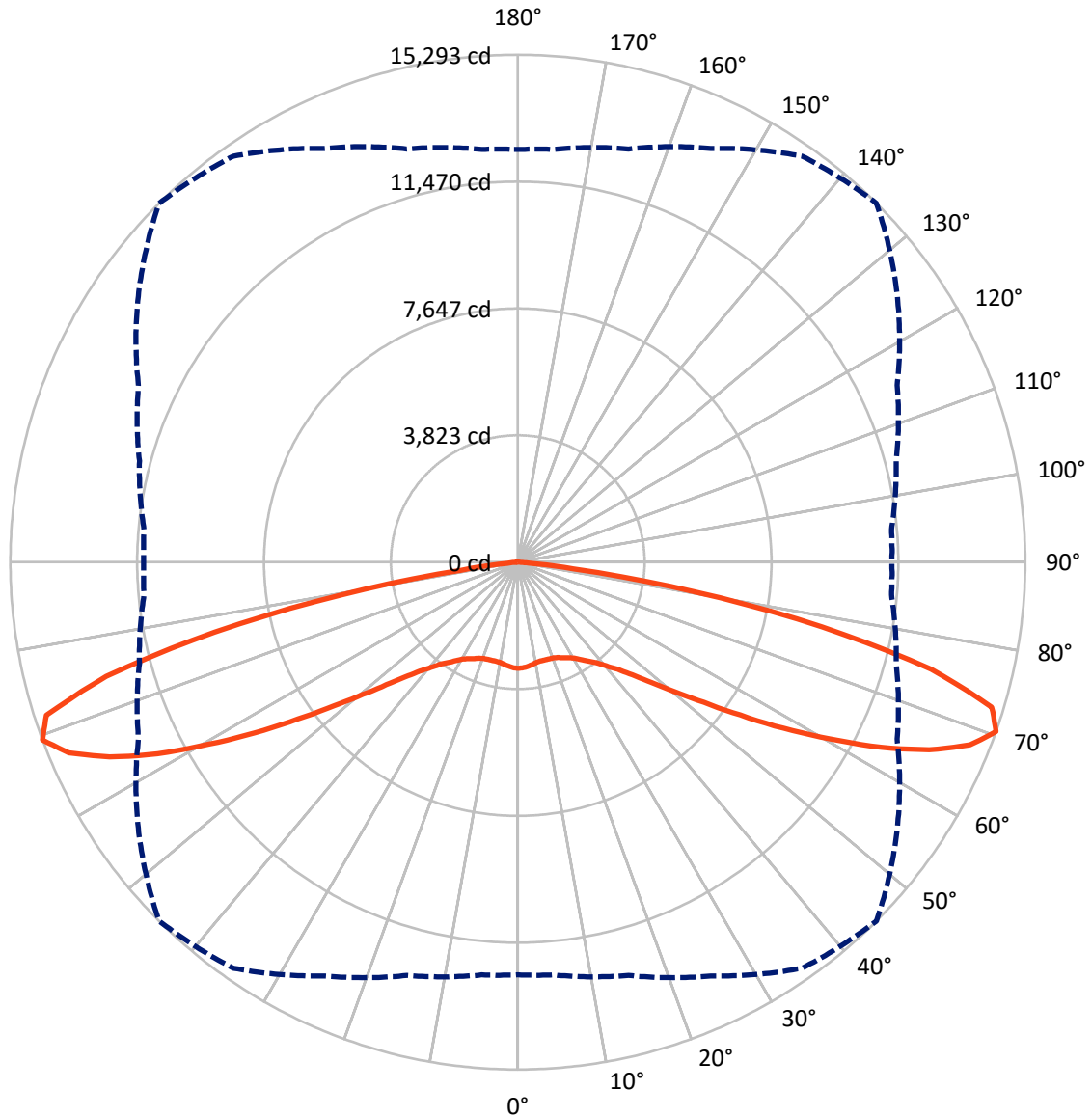
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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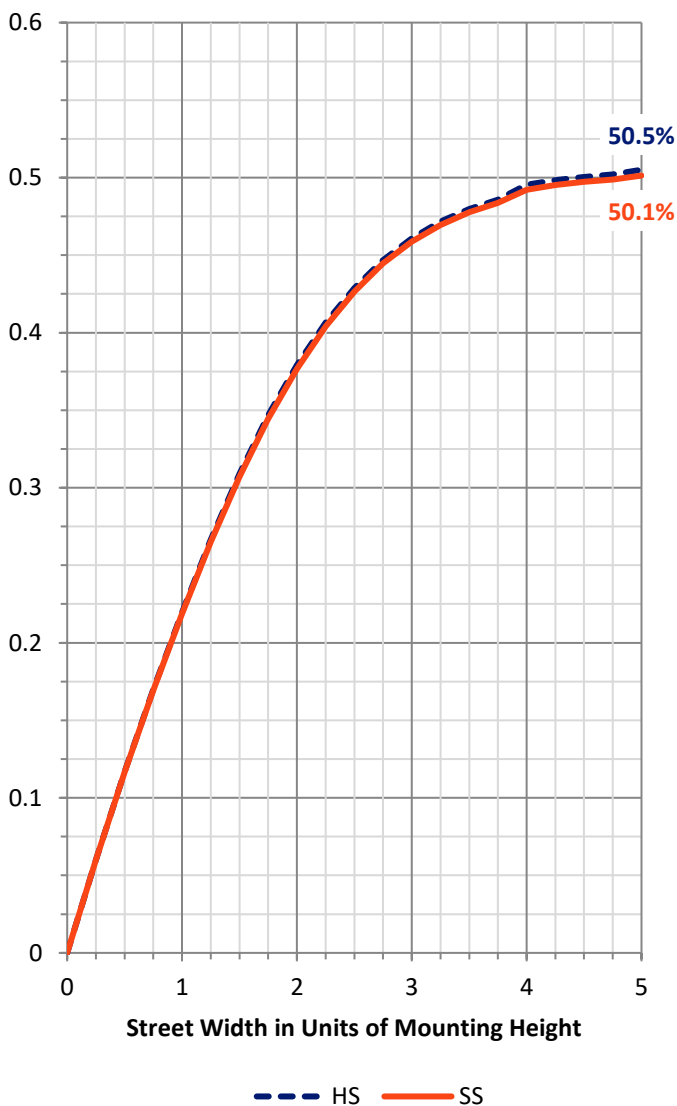
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18888.5	0.0	18888.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18888.5	0.0	18888.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37777.0	0.0	37777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	0.8
10°-20°	875.6	2.3
20°-30°	1491.9	3.9
30°-40°	2312.4	6.1
40°-50°	3892.1	10.3
50°-60°	7081.4	18.7
60°-70°	11988.7	31.7
70°-80°	9279.7	24.6
80°-90°	556.1	1.5
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°	37777.0	100.0
0°-180°	37777.0	100.0

Coefficient of Utilization



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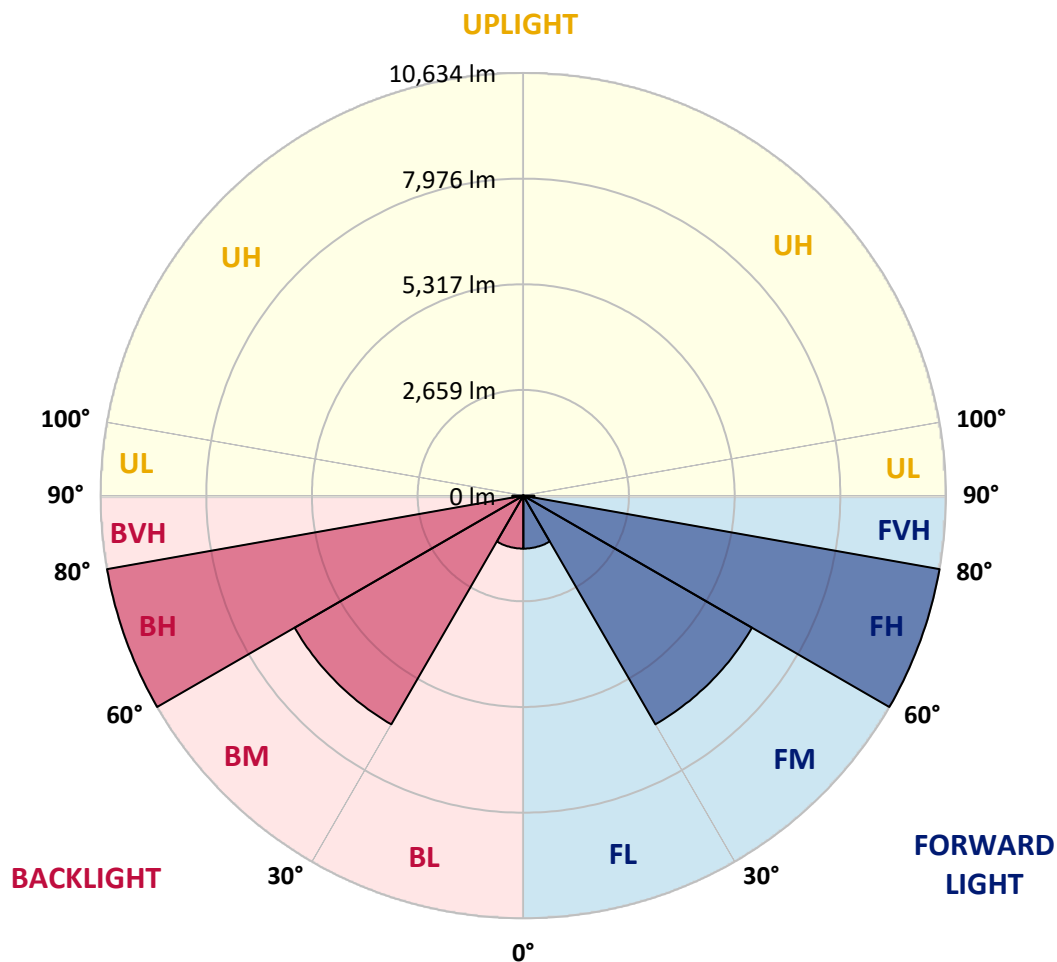
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.3	3.5			
FM (30°-60°)	6643.0	17.6			
FH (60°-80°)	10634.2	28.1			G4/12000
FVH (80°-90°)	278.0	0.7			G3/500
BL (0°-30°)	1333.3	3.5	B3/2500		
BM (30°-60°)	6643.0	17.6	B4/8500		
BH (60°-80°)	10634.2	28.1	B5		G4/12000
BVH (80°-90°)	278.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3
2.5°	3190.3	3192.3	3192.3	3188.3	3186.3	3186.3	3184.3	3184.3	3190.3	3192.3	3194.3
5°	3162.4	3162.4	3162.4	3160.4	3156.4	3156.4	3152.4	3152.4	3154.4	3160.4	3156.4
7.5°	3124.5	3128.5	3128.5	3120.5	3114.5	3114.5	3112.5	3114.5	3116.5	3122.5	3120.5
10°	3112.5	3114.5	3104.5	3090.5	3080.6	3074.6	3076.6	3080.6	3090.5	3094.5	3096.5
12.5°	3120.5	3120.5	3102.5	3082.6	3064.6	3056.6	3054.6	3068.6	3086.6	3098.5	3102.5
15°	3130.4	3126.5	3104.5	3078.6	3060.6	3058.6	3056.6	3066.6	3092.5	3116.5	3118.5
17.5°	3136.4	3134.4	3106.5	3074.6	3064.6	3064.6	3062.6	3070.6	3098.5	3128.5	3130.4
20°	3156.4	3150.4	3118.5	3084.6	3076.6	3080.6	3074.6	3084.6	3114.5	3150.4	3158.4
22.5°	3196.3	3190.3	3158.4	3124.5	3120.5	3120.5	3118.5	3128.5	3160.4	3198.3	3204.3
25°	3244.2	3238.2	3208.3	3184.3	3188.3	3196.3	3192.3	3194.3	3220.2	3252.2	3262.1
27.5°	3308.0	3298.0	3272.1	3252.2	3264.1	3264.1	3264.1	3262.1	3278.1	3308.0	3318.0
30°	3385.8	3381.8	3353.9	3351.9	3361.9	3351.9	3351.9	3353.9	3355.9	3383.8	3393.8
32.5°	3487.6	3479.6	3465.6	3461.7	3489.6	3497.6	3469.6	3443.7	3457.7	3485.6	3491.6
35°	3655.2	3643.2	3623.3	3601.3	3623.3	3661.2	3601.3	3581.4	3617.3	3655.2	3659.2
37.5°	3882.6	3876.6	3844.7	3804.8	3802.8	3842.7	3780.9	3778.9	3846.7	3892.6	3898.6
40°	4167.9	4173.9	4134.0	4096.1	4076.2	4108.1	4060.2	4078.2	4144.0	4195.9	4191.9
42.5°	4569.0	4547.0	4485.2	4449.3	4427.3	4415.4	4403.4	4431.3	4505.1	4561.0	4604.9
45°	5037.8	5029.9	4952.1	4908.2	4860.3	4842.3	4838.3	4888.2	4978.0	5045.8	5051.8
47.5°	5568.6	5550.6	5500.7	5454.8	5436.9	5414.9	5395.0	5432.9	5522.7	5570.6	5584.5
50°	6115.2	6119.2	6119.2	6111.3	6129.2	6133.2	6079.3	6093.3	6143.2	6139.2	6135.2
52.5°	6739.7	6761.7	6865.4	6875.4	6961.2	7019.1	6921.3	6863.4	6845.5	6737.7	6745.7
55°	7474.0	7493.9	7649.5	7805.2	8036.6	8134.4	7928.9	7749.3	7621.6	7458.0	7466.0
57.5°	8389.8	8399.7	8547.4	8846.7	9213.8	9443.2	9082.1	8727.0	8467.6	8312.0	8250.1
60°	9375.4	9385.4	9600.8	9966.0	10536.6	10815.9	10369.0	9788.4	9461.2	9223.8	9239.7
62.5°	10558.5	10598.4	10792.0	11294.8	11987.1	12300.3	11707.8	10931.6	10488.7	10193.4	10205.4
65°	11825.5	11893.3	12104.8	12657.5	13295.9	13633.1	12906.9	12011.0	11460.4	11099.2	11137.1
67.5°	12647.5	12707.3	13012.6	13623.1	14419.2	14698.5	13760.8	12717.3	12029.0	11598.0	11518.2
70°	12438.0	12487.9	12894.9	13760.8	14940.0	15293.1	13964.3	12613.6	11803.5	11306.7	11274.8
72.5°	10979.5	10875.8	11470.3	12713.3	14345.4	14938.0	13323.9	11520.2	10500.7	9989.9	9930.0
75°	7276.4	7501.9	8379.8	9844.3	12136.7	12871.0	11372.6	9249.7	7966.8	7541.8	7476.0
77.5°	2432.1	2605.7	3385.8	5580.5	8274.0	9377.4	8286.0	6049.4	4279.7	3447.7	3463.6
80°	644.4	636.5	824.0	1534.3	3575.4	5430.9	4162.0	2049.1	1121.3	812.0	770.1
82.5°	231.4	259.4	333.2	425.0	947.7	1687.9	1191.1	574.6	421.0	311.2	301.3
85°	101.8	99.8	143.7	169.6	237.4	315.2	279.3	243.4	213.5	141.7	131.7
87.5°	21.9	21.9	33.9	25.9	41.9	41.9	51.9	61.9	63.8	41.9	33.9
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)