

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: P532307

Luminaire Tested: **GALN-SA7C-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532307
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-SA7C-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 20297 lumens
Efficiency: N/A
Efficacy: 53.8 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): 377
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



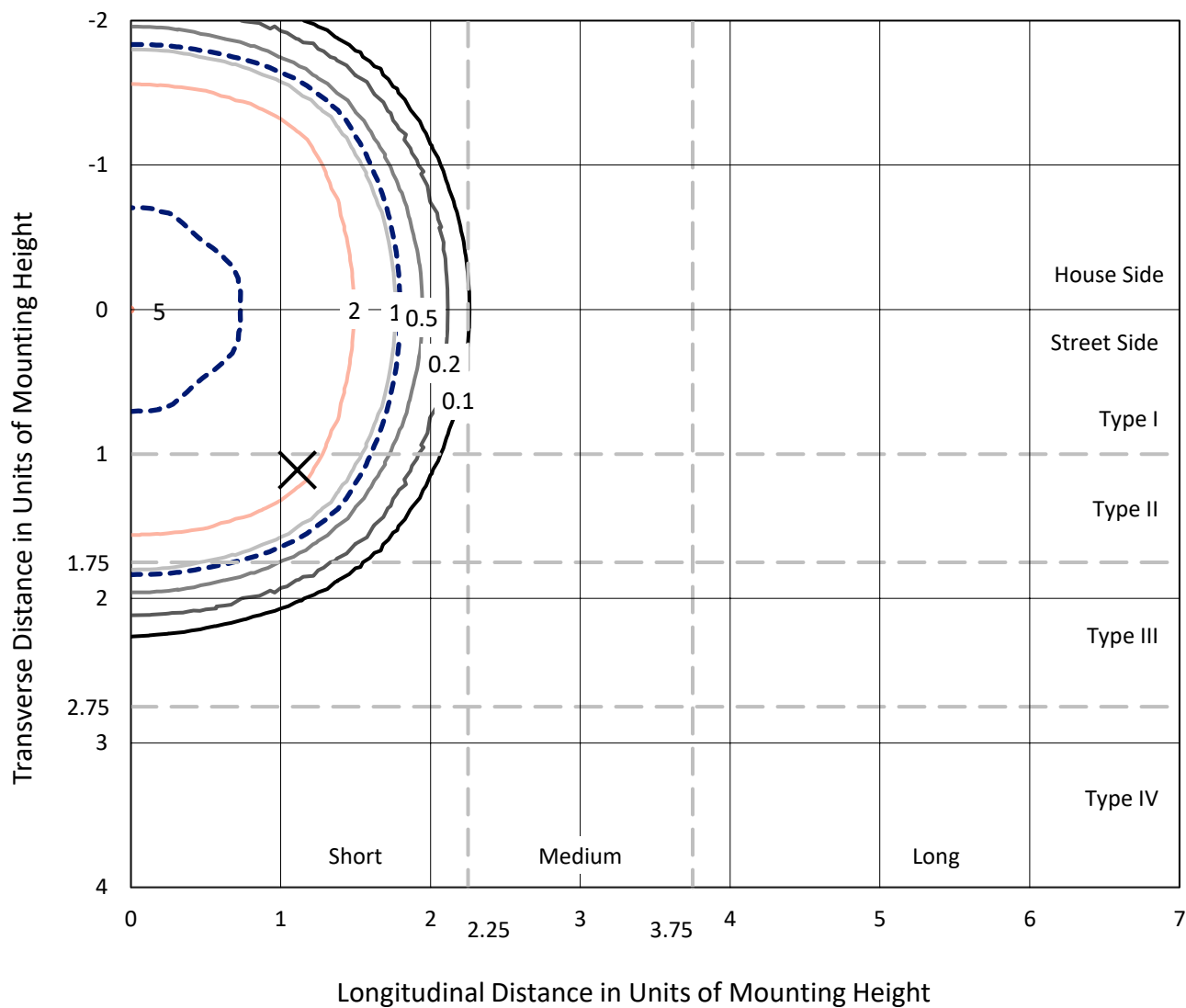
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

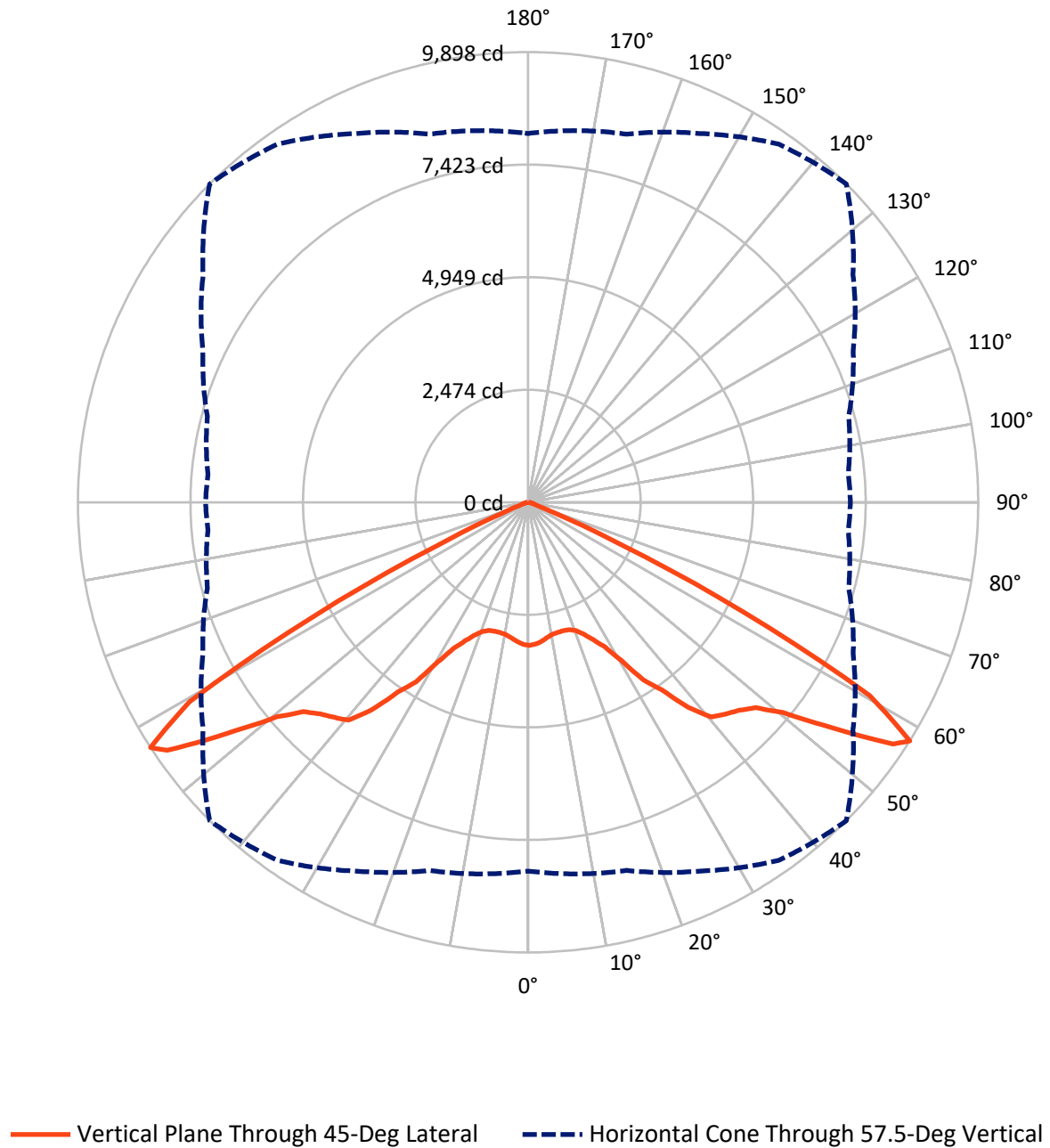


Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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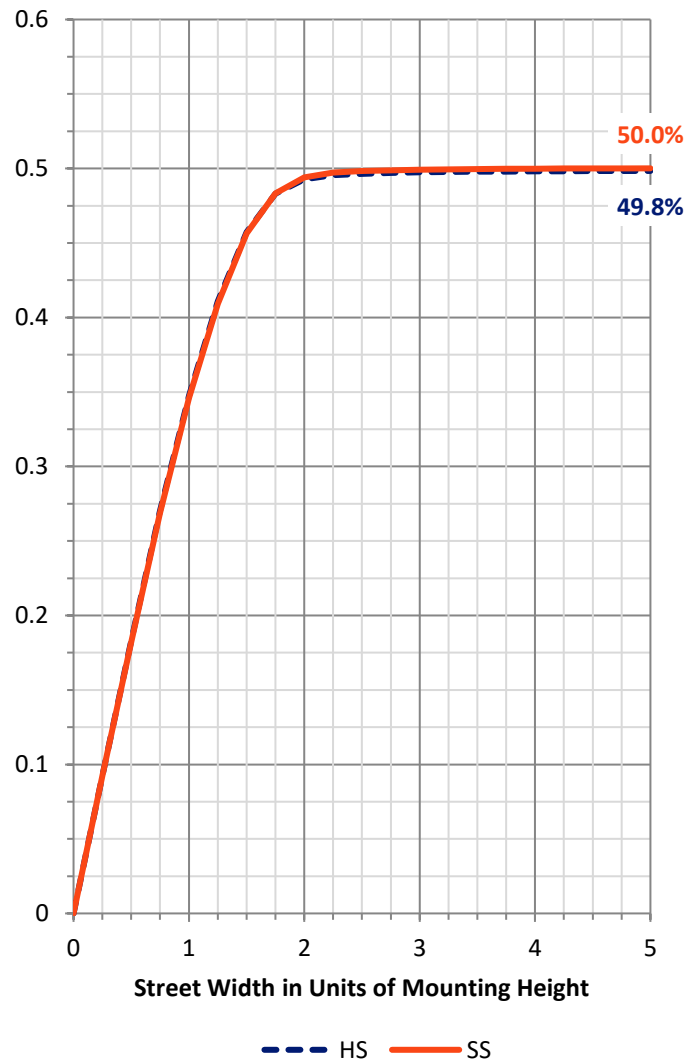
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10148.5	0.0	10148.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10148.5	0.0	10148.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20297.0	0.0	20297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	1.4
10°-20°	836.2	4.1
20°-30°	1543.6	7.6
30°-40°	3035.7	15.0
40°-50°	4944.2	24.4
50°-60°	7051.1	34.7
60°-70°	2441.3	12.0
70°-80°	131.0	0.6
80°-90°	24.6	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°	20297.0	100.0
0°-180°	20297.0	100.0

Coefficient of Utilization



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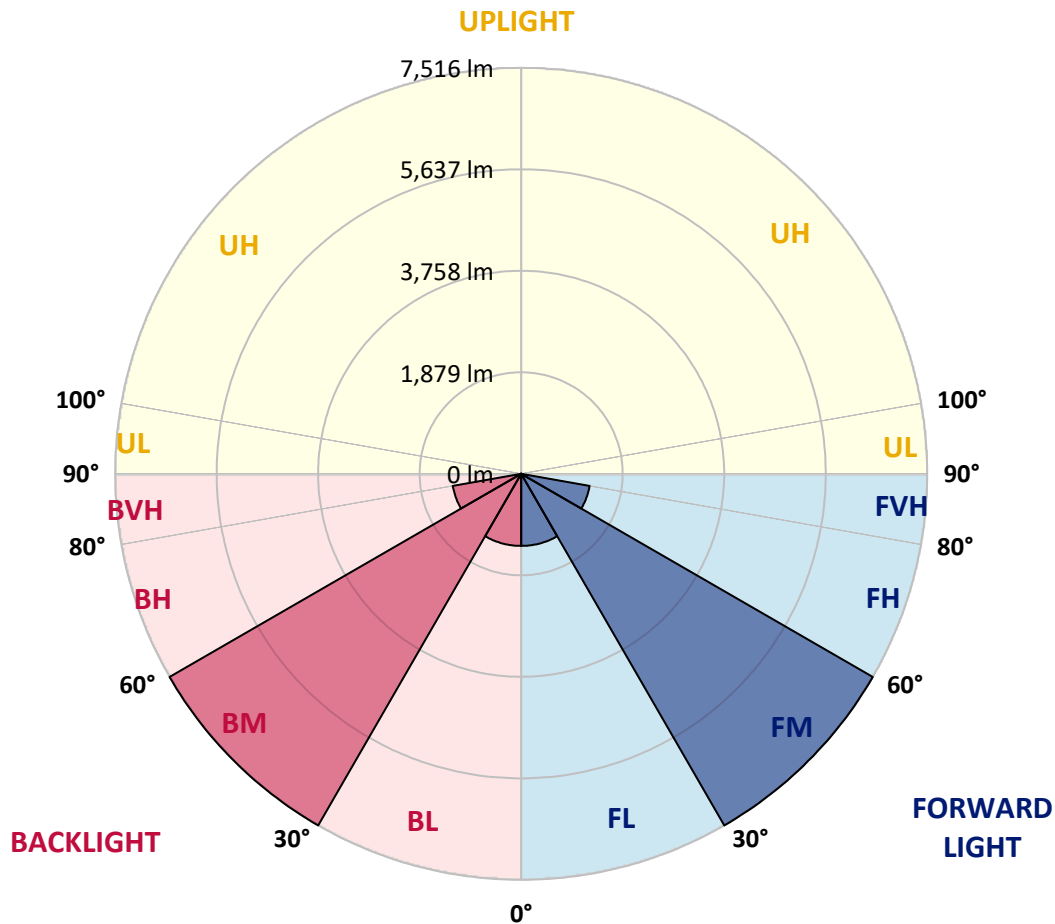
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1334.6	6.6			
FM	(30°-60°)	7515.5	37.0			
FH	(60°-80°)	1286.1	6.3			G1/1800
FVH	(80°-90°)	12.3	0.1			G1/100
BL	(0°-30°)	1334.6	6.6	B3/2500		
BM	(30°-60°)	7515.5	37.0	B4/8500		
BH	(60°-80°)	1286.1	6.3	B3/2500		G1/1800
BVH	(80°-90°)	12.3	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°	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3
2.5°	3139.8	3156.7	3135.6	3127.1	3122.9	3122.9	3110.2	3110.2	3106.0	3110.2	3093.3
5°	3089.0	3106.0	3106.0	3101.7	3076.3	3072.1	3059.4	3051.0	3055.2	3038.3	3051.0
7.5°	3038.3	3051.0	3034.0	3029.8	3021.3	3004.4	3000.2	2962.1	2966.3	2966.3	2974.8
10°	3029.8	3025.6	3000.2	2979.0	2953.6	2949.4	2936.7	2928.2	2928.2	2924.0	2936.7
12.5°	3029.8	3008.6	3004.4	2957.9	2915.5	2932.5	2898.6	2877.5	2907.1	2915.5	2932.5
15°	3025.6	3046.7	2974.8	2953.6	2924.0	2928.2	2898.6	2877.5	2894.4	2902.8	2915.5
17.5°	3051.0	3038.3	3017.1	2974.8	2962.1	2945.2	2907.1	2890.2	2890.2	2911.3	2915.5
20°	3118.7	3084.8	3042.5	3021.3	3034.0	3012.9	2966.3	2902.8	2919.8	2936.7	2949.4
22.5°	3182.1	3156.7	3127.1	3114.4	3186.4	3152.5	3072.1	3000.2	2974.8	3004.4	3025.6
25°	3304.8	3304.8	3249.8	3266.8	3347.2	3351.4	3258.3	3131.4	3114.4	3127.1	3135.6
27.5°	3554.5	3567.2	3520.7	3537.6	3571.4	3601.1	3520.7	3414.9	3376.8	3372.5	3385.2
30°	3825.3	3850.7	3846.5	3918.4	4015.7	4032.7	3914.2	3740.7	3626.4	3605.3	3622.2
32.5°	4180.8	4193.5	4185.0	4269.6	4532.0	4654.7	4345.8	4100.4	3948.0	3986.1	3948.0
35°	4849.4	4836.7	4743.6	4760.5	4976.3	5065.2	4769.0	4612.4	4540.5	4616.6	4599.7
37.5°	5424.9	5378.3	5302.1	5412.2	5636.4	5716.8	5407.9	5132.9	5001.7	5128.6	5183.7
40°	5911.5	5793.0	5687.2	5797.2	6097.7	6207.7	5754.9	5530.6	5479.9	5573.0	5691.4
42.5°	6321.9	6245.8	6106.1	6114.6	6313.5	6364.3	6000.3	5869.2	5818.4	5966.5	6025.7
45°	6613.9	6542.0	6410.8	6402.3	6554.7	6520.8	6195.0	6106.1	6135.8	6233.1	6262.7
47.5°	6762.0	6800.1	6723.9	6745.1	6825.5	6745.1	6487.0	6487.0	6419.3	6478.5	6448.9
50°	7189.4	7070.9	7168.3	7168.3	7252.9	7261.3	7003.2	6910.1	6728.2	6626.6	6626.6
52.5°	7688.7	7697.2	7735.3	7874.9	8018.8	8141.5	7773.4	7375.6	7070.9	6939.8	6922.8
55°	8099.2	8183.8	8336.2	8598.5	9013.2	9182.5	8547.7	7836.8	7464.5	7261.3	7219.0
56°	8323.5	8243.1	8505.4	8865.1	9406.7	9626.8	8674.7	7929.9	7519.5	7291.0	7286.7
57.5°	8107.7	8196.5	8378.5	8945.5	9609.9	9897.6	8721.2	7887.6	7299.4	7066.7	7087.9
60°	6402.3	6487.0	6732.4	7367.1	8408.1	8632.4	7379.8	6503.9	5979.2	5644.9	5649.1
62.5°	3622.2	3685.7	3876.1	4464.3	5111.7	5327.5	4599.7	4015.7	3651.8	3465.6	3406.4
65°	1332.9	1307.6	1337.2	1637.6	2035.4	2217.3	1912.7	1616.5	1426.0	1358.3	1332.9
67.5°	499.3	461.2	431.6	461.2	579.7	613.6	562.8	469.7	440.1	452.8	461.2
70°	308.9	292.0	232.7	220.0	215.8	211.6	224.3	237.0	270.8	317.4	325.8
72.5°	215.8	203.1	165.0	156.6	148.1	143.9	165.0	182.0	211.6	245.4	249.7
75°	84.6	88.9	84.6	93.1	97.3	101.6	118.5	131.2	143.9	143.9	139.6
77.5°	16.9	16.9	25.4	33.9	42.3	55.0	80.4	93.1	97.3	93.1	80.4
80°	0.0	0.0	8.5	16.9	33.9	46.5	71.9	80.4	88.9	80.4	63.5
82.5°	0.0	0.0	8.5	21.2	33.9	42.3	67.7	84.6	97.3	88.9	67.7
85°	0.0	0.0	8.5	16.9	25.4	29.6	29.6	21.2	21.2	12.7	8.5
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)