

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: P531601

Luminaire Tested: **GALN-SA6D-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21877 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 368
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



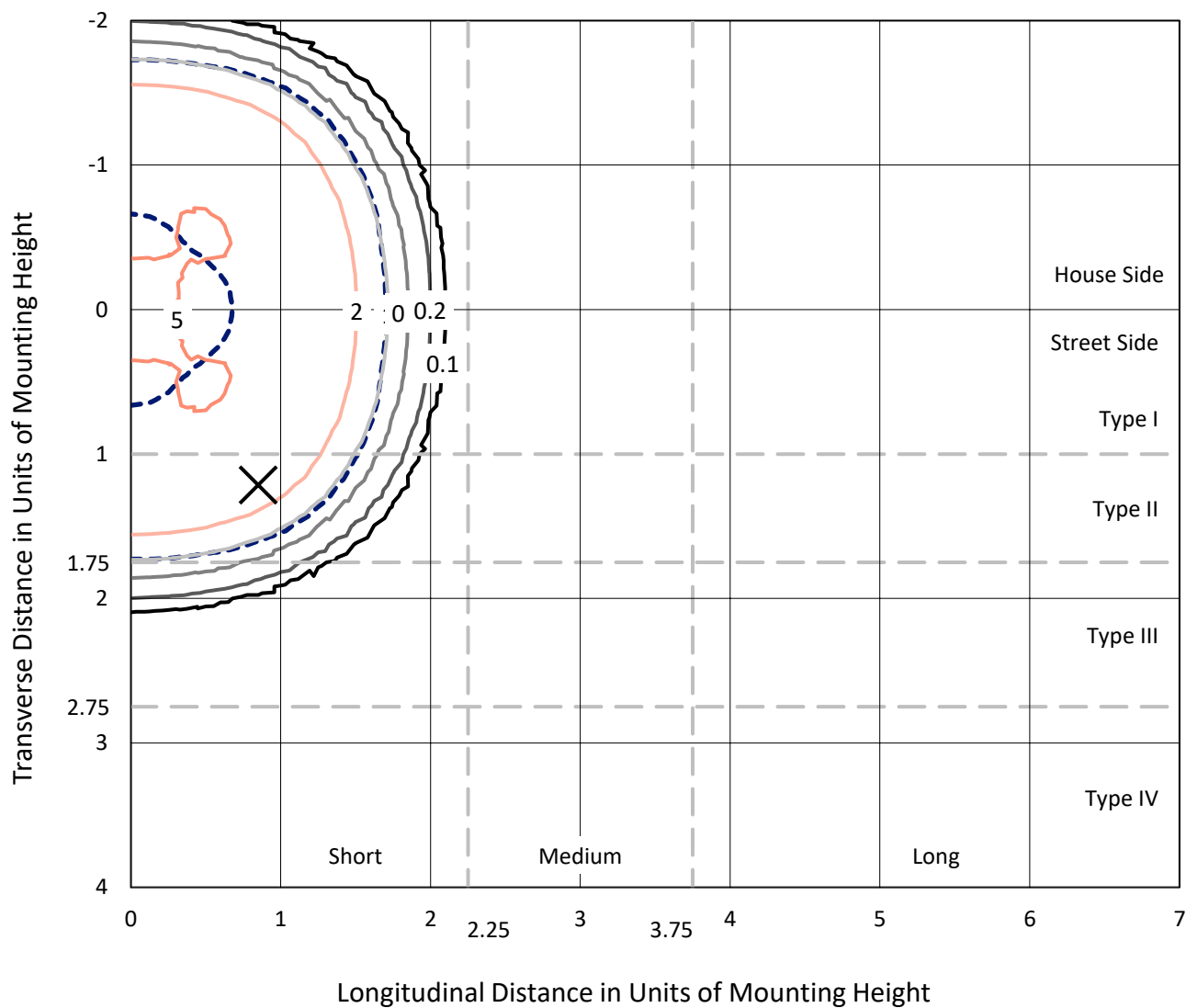
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

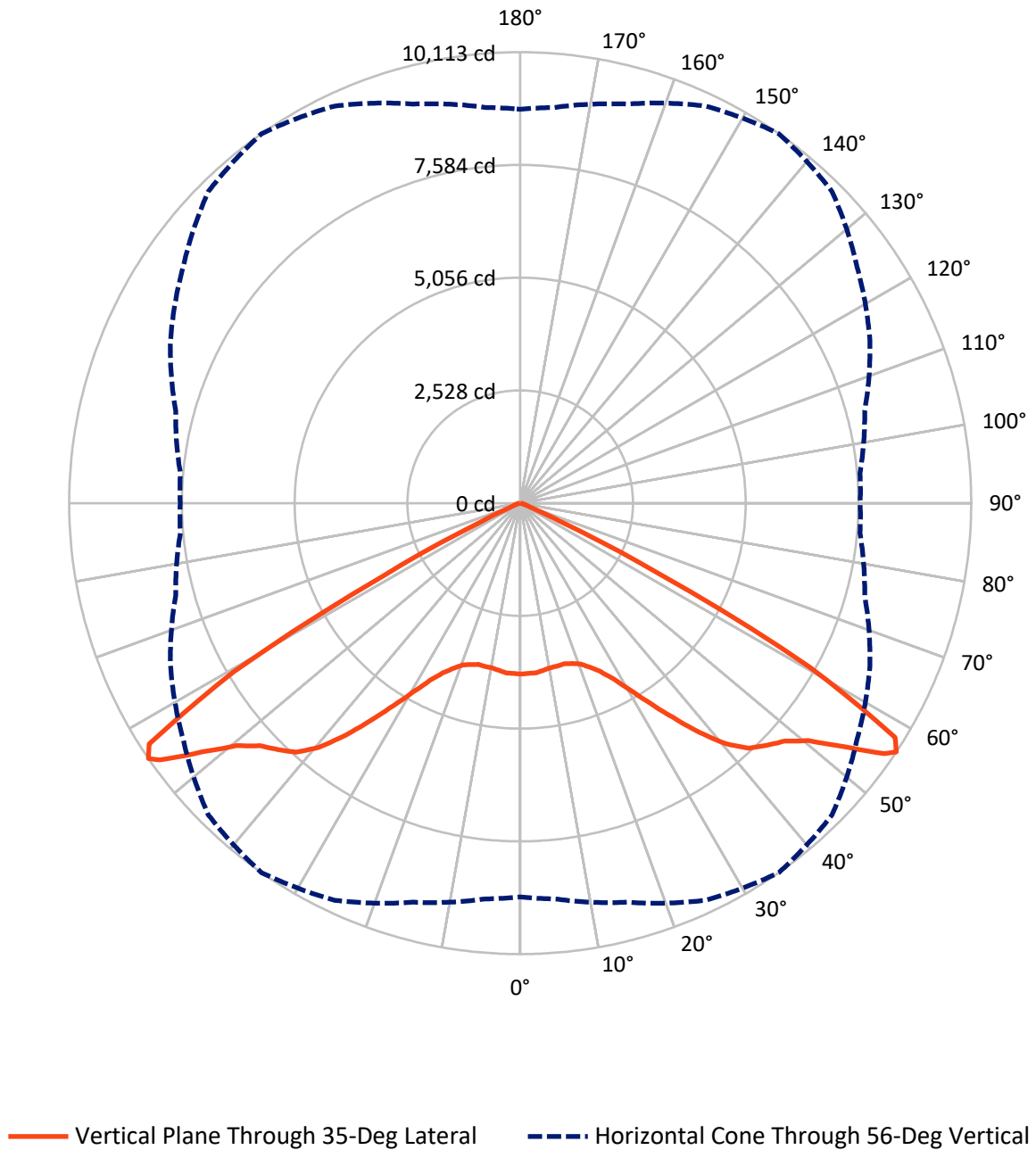
--- 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10938.5	0.0	10938.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10938.5	0.0	10938.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21877.0	0.0	21877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.3	1.6
10°-20°	1051.8	4.8
20°-30°	1904.7	8.7
30°-40°	3532.0	16.1
40°-50°	5797.5	26.5
50°-60°	7469.0	34.1
60°-70°	1646.1	7.5
70°-80°	95.5	0.4
80°-90°	20.1	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°	21877.0	100.0
0°-180°	21877.0	100.0

Coefficient of Utilization



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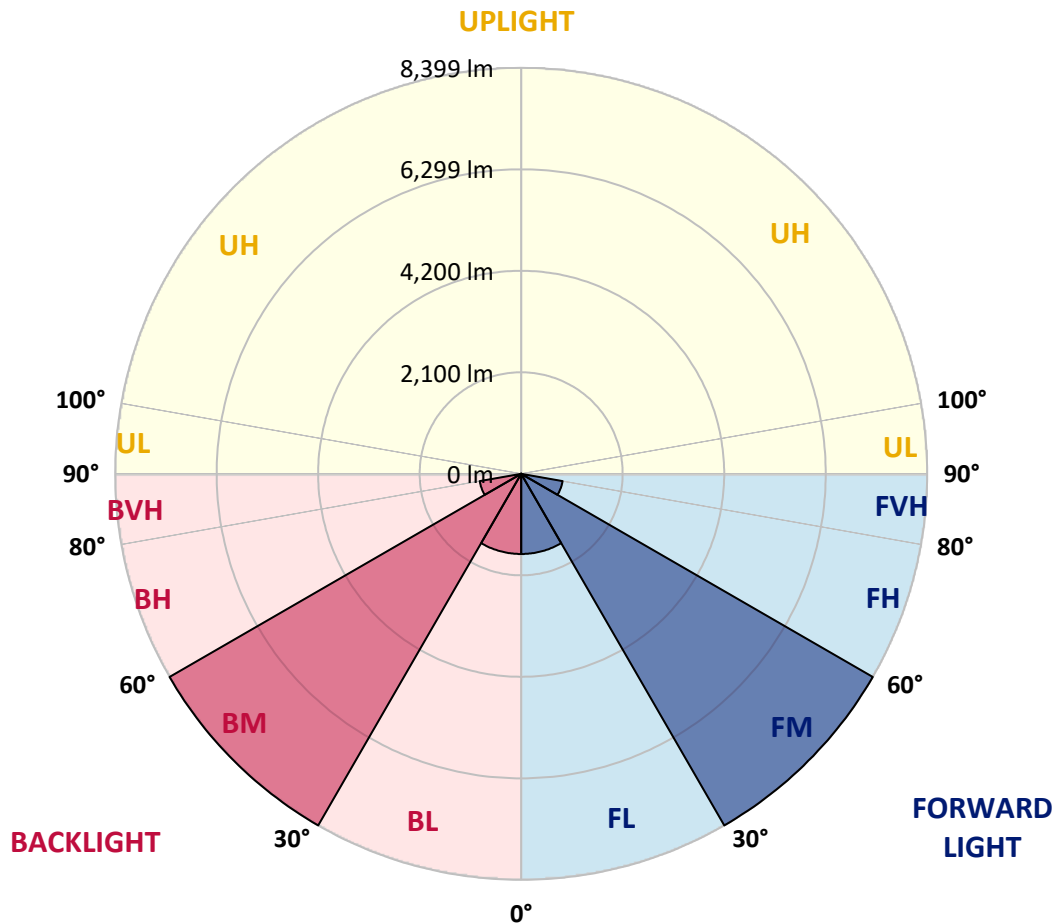
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1658.4	7.6			
FM	(30°-60°)	8399.3	38.4			
FH	(60°-80°)	870.8	4.0			G1/1800
FVH	(80°-90°)	10.1	0.0			G1/100
BL	(0°-30°)	1658.4	7.6	B3/2500		
BM	(30°-60°)	8399.3	38.4	B4/8500		
BH	(60°-80°)	870.8	4.0	B2/1000		G1/1800
BVH	(80°-90°)	10.1	0.0			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°	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3
2.5°	3841.2	3841.2	3845.2	3849.2	3821.4	3809.5	3813.5	3805.6	3801.6	3813.5	3813.5
5°	3829.4	3829.4	3817.5	3821.4	3821.4	3785.8	3785.8	3793.7	3793.7	3769.9	3762.0
7.5°	3797.6	3789.7	3773.9	3793.7	3781.8	3781.8	3754.0	3734.2	3726.3	3742.1	3726.3
10°	3730.3	3734.2	3750.1	3758.0	3750.1	3773.9	3726.3	3698.5	3670.8	3658.9	3658.9
12.5°	3698.5	3722.3	3698.5	3718.4	3746.1	3726.3	3698.5	3678.7	3639.1	3623.2	3623.2
15°	3694.6	3710.4	3718.4	3746.1	3734.2	3742.1	3686.6	3662.9	3603.4	3575.7	3563.8
17.5°	3690.6	3710.4	3722.3	3773.9	3781.8	3785.8	3742.1	3670.8	3619.3	3591.5	3563.8
20°	3734.2	3742.1	3765.9	3817.5	3849.2	3904.7	3825.4	3750.1	3639.1	3607.4	3595.5
22.5°	3789.7	3829.4	3853.1	3908.6	3991.9	4039.5	3936.4	3841.2	3726.3	3686.6	3639.1
25°	3968.1	3960.2	3999.8	4114.8	4182.2	4217.8	4134.6	3995.9	3845.2	3797.6	3805.6
27.5°	4190.1	4198.0	4233.7	4360.6	4459.7	4515.2	4416.0	4233.7	4087.0	4007.7	3999.8
30°	4479.5	4471.5	4511.2	4681.6	4860.0	4943.3	4768.9	4554.8	4412.1	4309.0	4332.8
32.5°	4784.7	4788.7	4899.7	5054.3	5343.7	5506.2	5224.7	4963.1	4749.0	4677.7	4642.0
35°	5236.6	5256.4	5343.7	5581.5	5902.6	6112.7	5803.5	5490.3	5244.6	5113.7	5129.6
37.5°	5795.6	5775.7	5922.4	6180.1	6517.0	6671.6	6410.0	6053.2	5803.5	5716.3	5771.8
40°	6390.2	6410.0	6485.3	6719.2	7095.8	7198.9	6810.4	6616.1	6398.1	6354.5	6421.9
42.5°	6984.8	6972.9	7028.4	7238.5	7512.0	7440.7	7210.8	7095.8	6941.2	6854.0	6945.2
45°	7420.9	7401.0	7504.1	7646.8	7745.9	7611.1	7508.1	7468.4	7389.2	7294.0	7377.3
47.5°	7845.0	7829.2	7928.3	7967.9	7975.8	7797.5	7817.3	7888.6	7690.4	7492.2	7587.4
50°	8205.8	8178.0	8300.9	8388.1	8368.3	8082.9	8154.2	8082.9	7773.7	7539.8	7504.1
52.5°	8808.3	8820.2	8951.0	9109.6	9062.0	8824.2	8721.1	8396.0	7999.6	7789.5	7666.6
55°	9188.9	9129.4	9355.4	9858.8	9914.3	9668.5	9212.7	8733.0	8138.4	7880.7	7849.0
56°	8832.1	8907.4	9264.2	9827.1	10112.5	9886.6	9224.5	8649.7	7995.7	7646.8	7623.0
57.5°	7924.3	7884.7	8368.3	9137.3	9914.3	9819.2	8899.5	8055.1	7294.0	6901.6	6854.0
60°	4931.4	5046.3	5470.5	6421.9	7460.5	7508.1	6596.3	5870.9	4982.9	4634.1	4717.3
62.5°	1930.5	1831.4	2097.0	2806.6	3520.2	3678.7	3333.8	2770.9	2275.4	1930.5	1906.8
65°	447.9	436.1	491.6	677.9	947.4	1098.1	1042.6	749.2	551.0	523.3	483.6
67.5°	253.7	253.7	241.8	241.8	265.6	281.5	269.6	265.6	277.5	289.4	285.4
70°	178.4	174.4	166.5	170.5	162.5	162.5	174.4	194.2	210.1	210.1	214.1
72.5°	107.0	107.0	107.0	118.9	118.9	118.9	130.8	146.7	150.6	146.7	142.7
75°	47.6	47.6	55.5	67.4	75.3	79.3	91.2	99.1	107.0	99.1	91.2
77.5°	11.9	11.9	19.8	27.7	35.7	43.6	59.5	71.4	75.3	71.4	59.5
80°	4.0	4.0	7.9	19.8	35.7	43.6	59.5	63.4	67.4	59.5	47.6
82.5°	4.0	4.0	7.9	19.8	27.7	35.7	47.6	55.5	59.5	51.5	47.6
85°	0.0	4.0	7.9	15.9	23.8	31.7	31.7	23.8	19.8	11.9	15.9
87.5°	0.0	0.0	4.0	4.0	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)