

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: P529964

Luminaire Tested: **GALN-SA5A-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16063 lumens
Efficiency: N/A
Efficacy: 104.3 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): 154
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



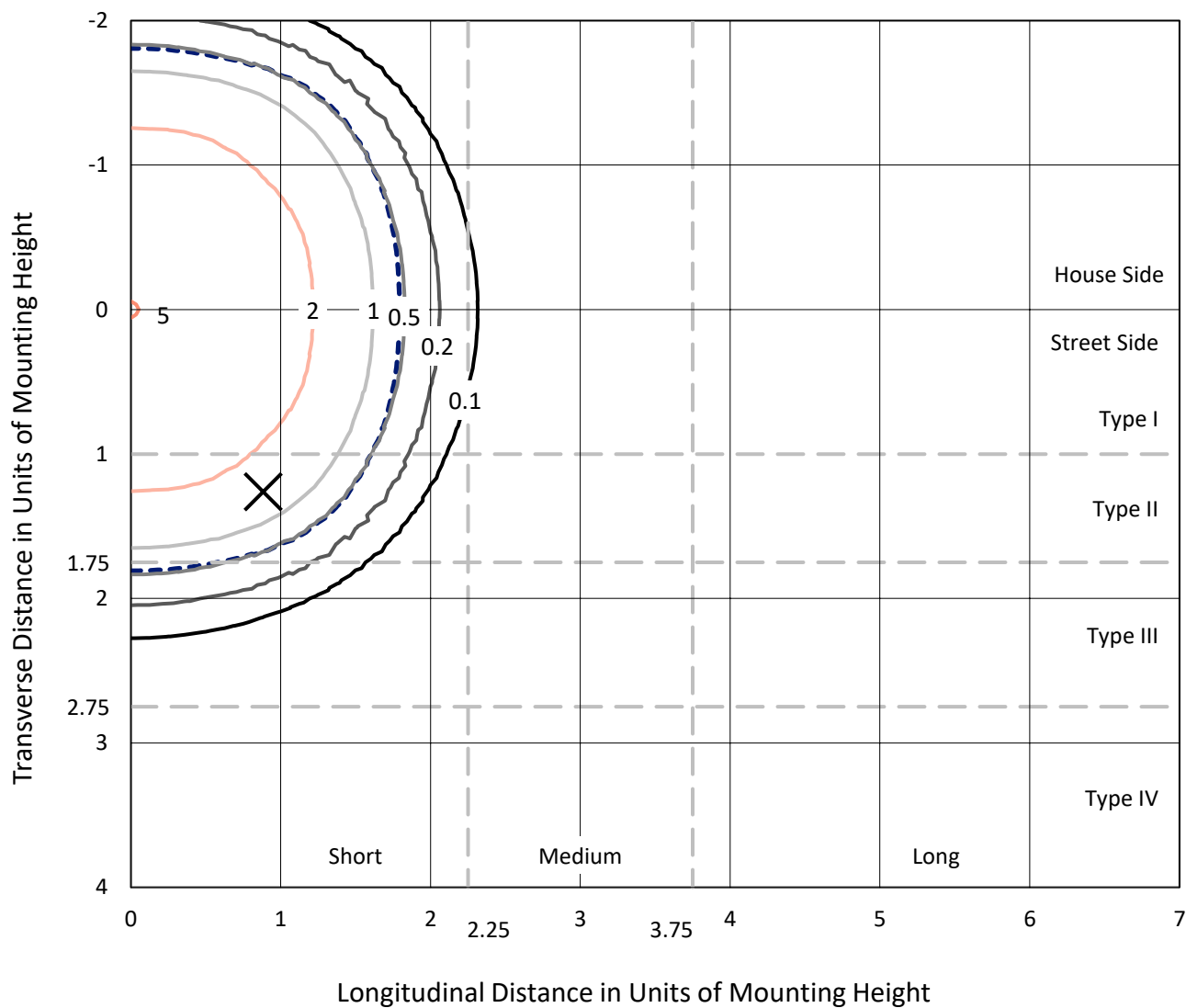
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

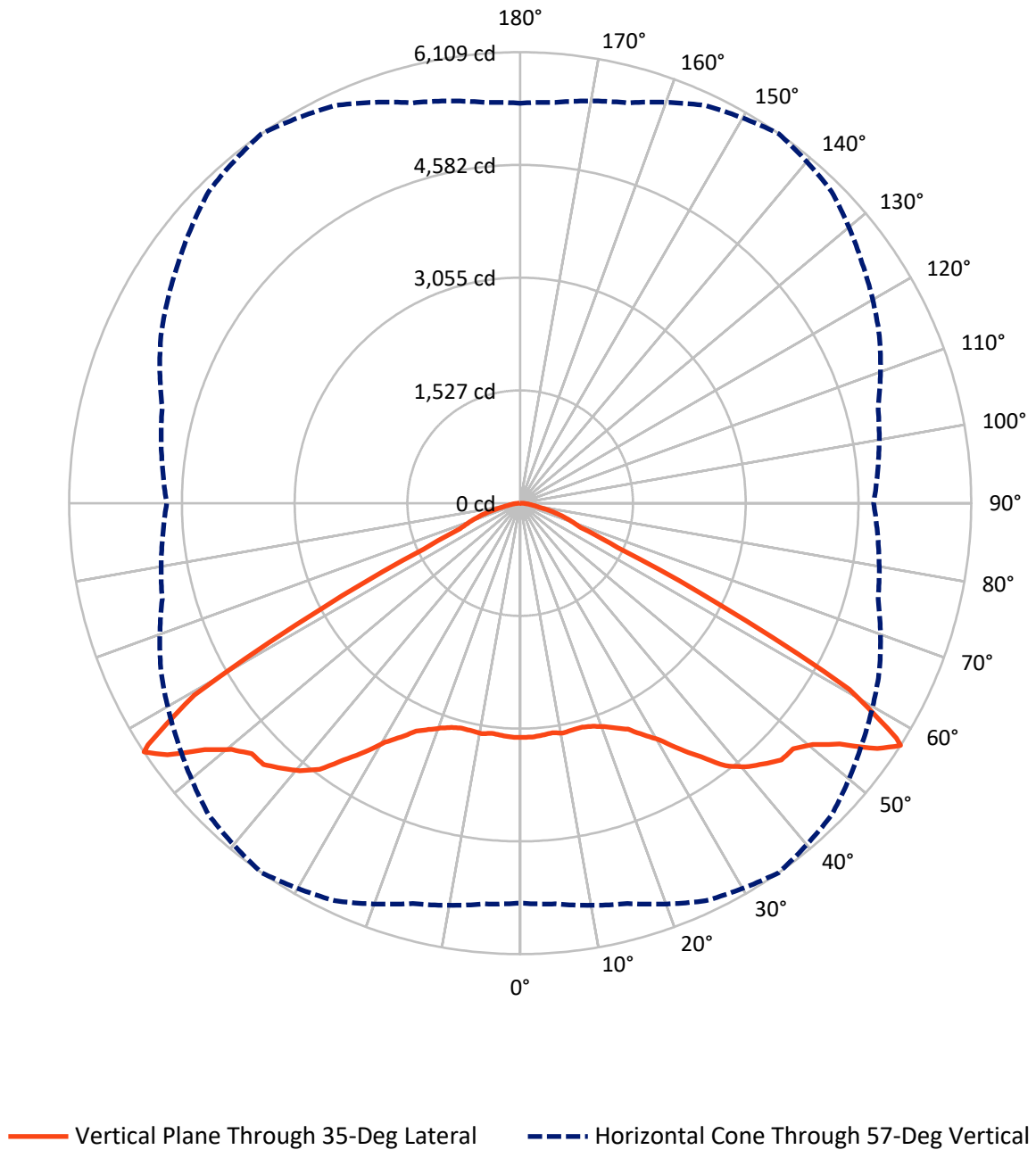


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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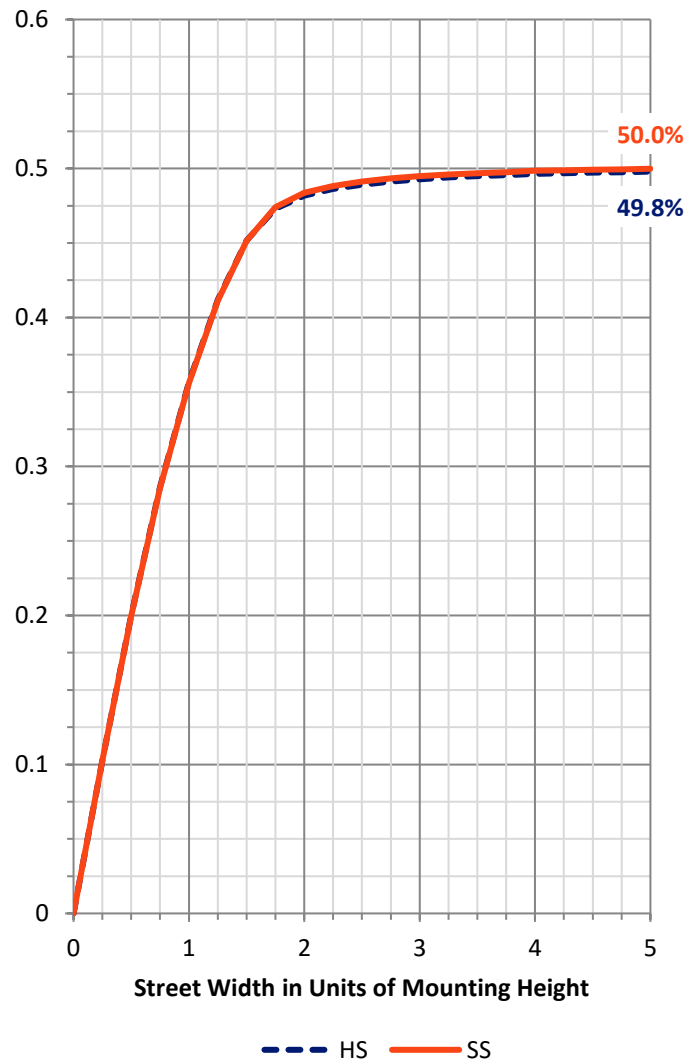
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8031.5	0.0	8031.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8031.5	0.0	8031.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16063.0	0.0	16063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	1.9
10°-20°	890.7	5.5
20°-30°	1555.7	9.7
30°-40°	2549.0	15.9
40°-50°	3737.4	23.3
50°-60°	4707.6	29.3
60°-70°	1770.5	11.0
70°-80°	470.8	2.9
80°-90°	80.7	0.5
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°	16063.0	100.0
0°-180°	16063.0	100.0

Coefficient of Utilization



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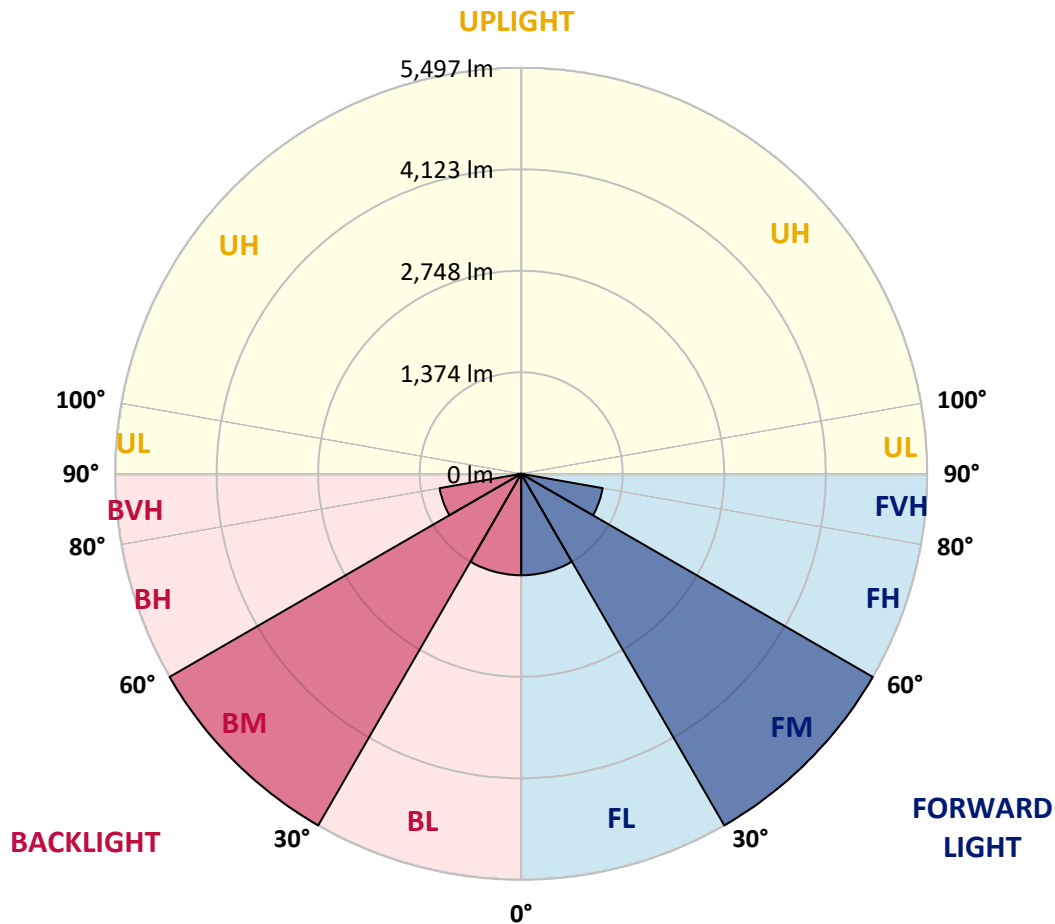
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.6	8.6			
FM	(30°-60°)	5497.0	34.2			
FH	(60°-80°)	1120.6	7.0			G1/1800
FVH	(80°-90°)	40.4	0.3			G1/100
BL	(0°-30°)	1373.6	8.6	B3/2500		
BM	(30°-60°)	5497.0	34.2	B4/8500		
BH	(60°-80°)	1120.6	7.0	B3/2500		G1/1800
BVH	(80°-90°)	40.4	0.3			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°	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3
2.5°	3156.5	3188.2	3174.3	3166.4	3172.3	3162.4	3146.6	3164.4	3160.5	3144.6	3138.7
5°	3148.6	3172.3	3156.5	3172.3	3156.5	3184.2	3176.3	3146.6	3182.2	3148.6	3160.5
7.5°	3142.6	3150.6	3154.5	3146.6	3140.7	3174.3	3156.5	3142.6	3122.8	3116.9	3126.8
10°	3128.8	3148.6	3118.9	3158.5	3166.4	3142.6	3142.6	3116.9	3101.1	3091.2	3124.8
12.5°	3164.4	3130.8	3126.8	3146.6	3152.5	3162.4	3134.7	3120.9	3091.2	3095.1	3089.2
15°	3122.8	3136.7	3138.7	3142.6	3148.6	3172.3	3146.6	3116.9	3105.0	3063.5	3067.4
17.5°	3138.7	3124.8	3138.7	3184.2	3176.3	3194.1	3166.4	3120.9	3093.2	3069.4	3101.1
20°	3166.4	3160.5	3166.4	3221.8	3231.7	3247.5	3223.8	3182.2	3128.8	3101.1	3116.9
22.5°	3196.1	3192.1	3196.1	3249.5	3306.9	3326.7	3302.9	3206.0	3178.3	3126.8	3109.0
25°	3249.5	3253.5	3295.0	3354.4	3392.0	3429.6	3386.1	3316.8	3227.7	3196.1	3158.5
27.5°	3368.2	3378.1	3401.9	3489.0	3554.3	3587.9	3526.6	3431.6	3376.2	3310.9	3301.0
30°	3514.7	3514.7	3556.2	3631.5	3720.5	3772.0	3696.8	3584.0	3516.7	3481.0	3459.3
32.5°	3708.6	3686.9	3702.7	3835.3	3973.8	4017.4	3916.4	3777.9	3671.0	3623.5	3607.7
35°	3874.9	3888.7	3924.3	4066.8	4221.2	4322.1	4163.8	3983.7	3874.9	3831.3	3823.4
37.5°	4090.6	4114.3	4132.1	4328.1	4514.1	4551.7	4399.3	4254.8	4122.2	4086.6	4066.8
40°	4395.3	4379.5	4385.4	4529.9	4698.1	4721.9	4571.5	4468.6	4359.7	4338.0	4338.0
42.5°	4646.7	4628.9	4648.7	4702.1	4830.7	4812.9	4729.8	4654.6	4609.1	4585.3	4609.1
45°	4799.1	4795.1	4830.7	4870.3	4961.3	4902.0	4836.7	4848.5	4805.0	4765.4	4763.4
47.5°	4965.3	4939.6	4983.1	5042.5	4973.2	4945.5	4941.5	4967.3	4953.4	4884.2	4862.4
50°	5046.4	5036.5	5105.8	5175.1	5137.5	5074.1	5088.0	5129.5	4951.4	4858.4	4805.0
52.5°	5264.1	5266.1	5398.7	5436.3	5420.5	5327.4	5357.1	5244.3	5034.6	4903.9	4909.9
55°	5606.5	5592.6	5741.1	5851.9	5869.7	5751.0	5608.5	5450.1	5186.9	5054.3	5014.8
57°	5418.5	5450.1	5614.4	5942.9	6109.1	5968.6	5657.9	5369.0	5018.7	4858.4	4787.2
57.5°	5167.1	5218.6	5503.6	5834.1	6008.2	5996.3	5596.6	5218.6	4905.9	4656.6	4662.5
60°	3785.8	3795.7	4053.0	4577.4	5121.6	5133.5	4646.7	4146.0	3797.7	3526.6	3564.2
62.5°	1996.8	2042.3	2145.2	2566.8	3037.8	3152.5	2857.7	2600.4	2299.6	2093.8	2113.6
65°	1056.8	1050.8	1100.3	1219.1	1450.6	1510.0	1470.4	1266.6	1161.7	1128.0	1130.0
67.5°	858.9	868.8	862.8	868.8	884.6	910.3	904.4	912.3	918.3	928.1	926.2
70°	728.3	728.3	732.2	734.2	734.2	746.1	759.9	785.7	787.6	797.5	801.5
72.5°	573.9	569.9	575.9	589.7	591.7	601.6	621.4	637.2	643.2	643.2	631.3
75°	389.9	393.8	401.7	413.6	425.5	443.3	459.1	469.0	473.0	467.0	461.1
77.5°	219.7	223.6	229.6	247.4	261.2	277.1	294.9	304.8	314.7	316.6	304.8
80°	130.6	130.6	140.5	154.4	170.2	186.0	201.9	213.7	217.7	217.7	211.8
82.5°	79.2	81.1	89.1	102.9	116.8	126.7	140.5	150.4	158.3	156.3	152.4
85°	41.6	41.6	49.5	61.3	71.2	81.1	81.1	75.2	71.2	61.3	57.4
87.5°	13.9	11.9	15.8	15.8	13.9	15.8	15.8	17.8	17.8	17.8	17.8
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)