

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: P530198

Luminaire Tested: **GALN-SA5B-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530198
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-SA5B-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 19987 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

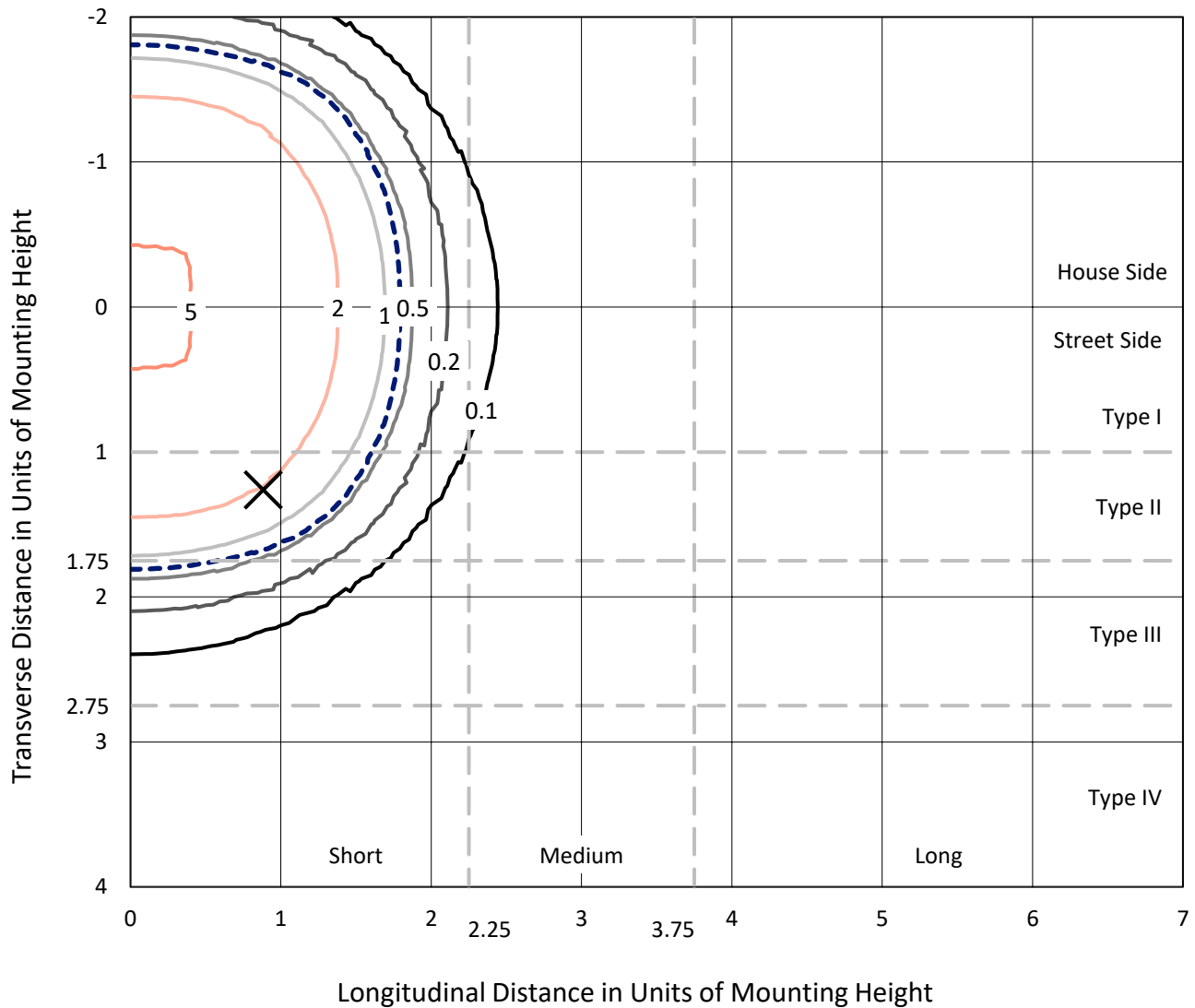
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530198
 CATALOG NUMBER: GALN-SA5B-830-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

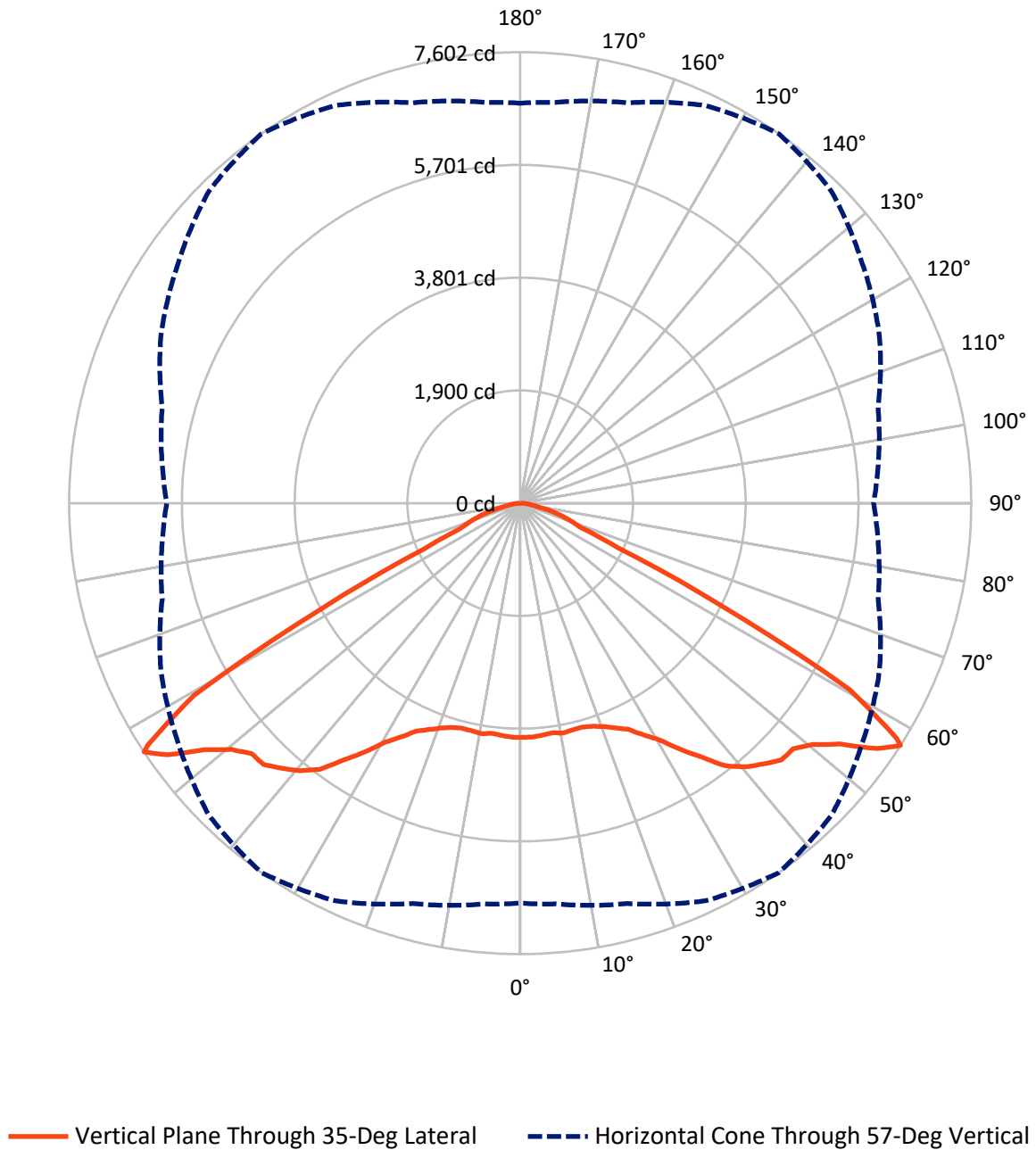
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

REPORT NUMBER: P530198
CATALOG NUMBER: GALN-SA5B-830-U-5MQ-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P530198

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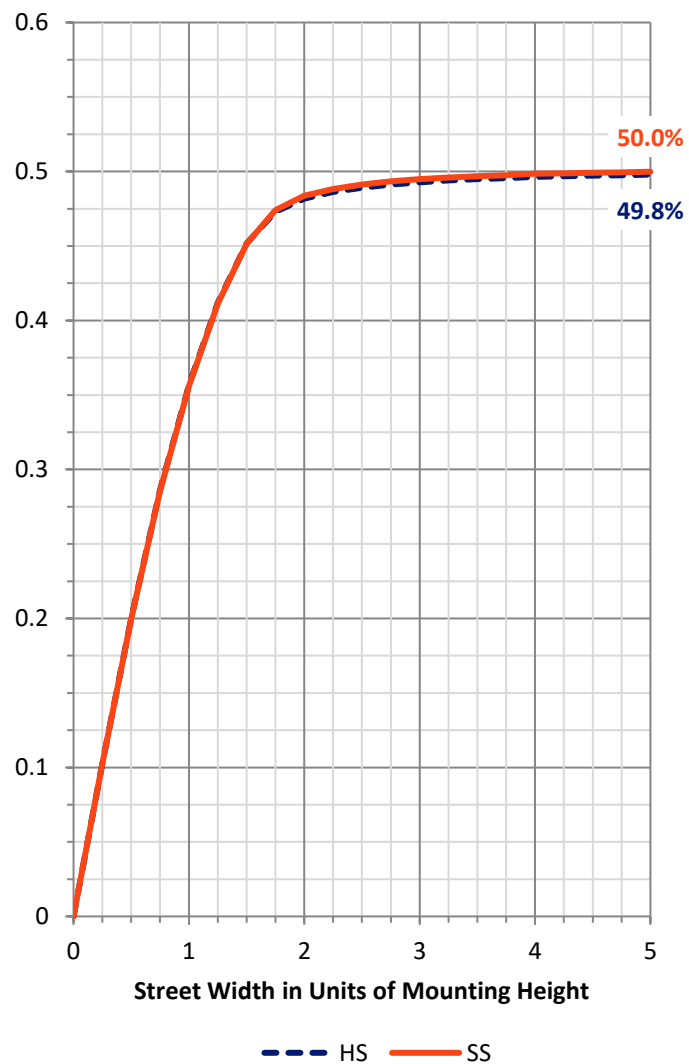
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9993.5	0.0	9993.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9993.5	0.0	9993.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19987.0	0.0	19987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	1.9
10°-20°	1108.3	5.5
20°-30°	1935.7	9.7
30°-40°	3171.7	15.9
40°-50°	4650.4	23.3
50°-60°	5857.6	29.3
60°-70°	2203.0	11.0
70°-80°	585.8	2.9
80°-90°	100.4	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°	19987.0	100.0
0°-180°	19987.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530198

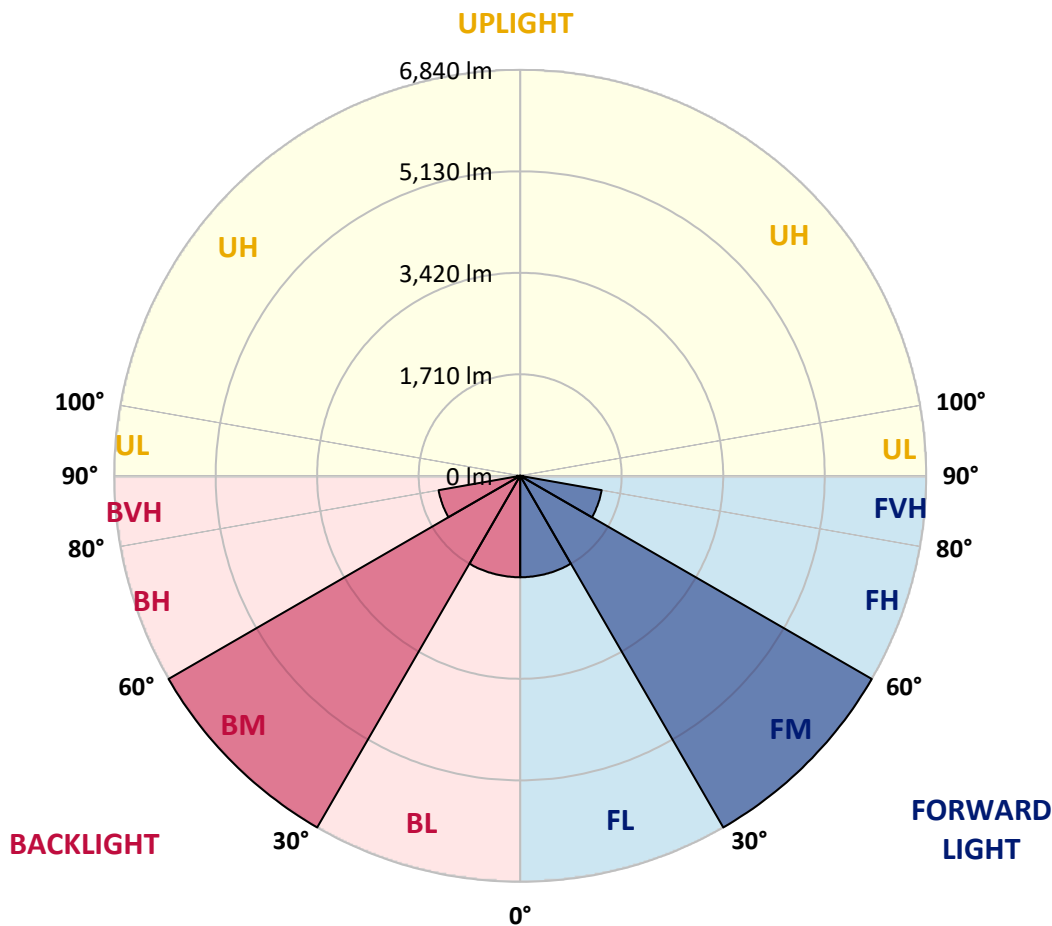
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1709.1	8.6			
FM	(30°-60°)	6839.8	34.2			
FH	(60°-80°)	1394.4	7.0			G1/1800
FVH	(80°-90°)	50.2	0.3			G1/100
BL	(0°-30°)	1709.1	8.6	B3/2500		
BM	(30°-60°)	6839.8	34.2	B4/8500		
BH	(60°-80°)	1394.4	7.0	B3/2500		G1/1800
BVH	(80°-90°)	50.2	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°	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3
2.5°	3927.6	3967.0	3949.7	3939.9	3947.3	3935.0	3915.3	3937.4	3932.5	3912.8	3905.4
5°	3917.7	3947.3	3927.6	3947.3	3927.6	3962.1	3952.2	3915.3	3959.6	3917.7	3932.5
7.5°	3910.3	3920.2	3925.1	3915.3	3907.9	3949.7	3927.6	3910.3	3885.7	3878.3	3890.6
10°	3893.1	3917.7	3880.8	3930.0	3939.9	3910.3	3910.3	3878.3	3858.6	3846.3	3888.2
12.5°	3937.4	3895.6	3890.6	3915.3	3922.7	3935.0	3900.5	3883.3	3846.3	3851.3	3843.9
15°	3885.7	3903.0	3905.4	3910.3	3917.7	3947.3	3915.3	3878.3	3863.6	3811.9	3816.8
17.5°	3905.4	3888.2	3905.4	3962.1	3952.2	3974.4	3939.9	3883.3	3848.8	3819.2	3858.6
20°	3939.9	3932.5	3939.9	4008.8	4021.2	4040.9	4011.3	3959.6	3893.1	3858.6	3878.3
22.5°	3976.8	3971.9	3976.8	4043.3	4114.7	4139.4	4109.8	3989.1	3954.7	3890.6	3868.5
25°	4043.3	4048.2	4100.0	4173.8	4220.6	4267.4	4213.2	4127.0	4016.2	3976.8	3930.0
27.5°	4191.1	4203.4	4232.9	4341.3	4422.5	4464.4	4388.1	4269.9	4200.9	4119.7	4107.3
30°	4373.3	4373.3	4425.0	4518.6	4629.4	4693.4	4599.8	4459.5	4375.7	4331.4	4304.3
32.5°	4614.6	4587.5	4607.2	4772.2	4944.6	4998.7	4873.2	4700.8	4567.8	4508.7	4489.0
35°	4821.5	4838.7	4883.0	5060.3	5252.4	5378.0	5181.0	4956.9	4821.5	4767.3	4757.4
37.5°	5089.9	5119.4	5141.6	5385.3	5616.8	5663.6	5474.0	5294.2	5129.3	5084.9	5060.3
40°	5469.1	5449.4	5456.8	5636.5	5845.8	5875.4	5688.2	5560.2	5424.7	5397.7	5397.7
42.5°	5781.8	5759.6	5784.3	5850.7	6010.8	5988.6	5885.2	5791.6	5735.0	5705.5	5735.0
45°	5971.4	5966.5	6010.8	6060.1	6173.3	6099.5	6018.2	6033.0	5978.8	5929.5	5927.1
47.5°	6178.3	6146.2	6200.4	6274.3	6188.1	6153.6	6148.7	6180.7	6163.5	6077.3	6050.2
50°	6279.2	6266.9	6353.1	6439.3	6392.5	6313.7	6330.9	6382.6	6161.0	6045.3	5978.8
52.5°	6550.1	6552.5	6717.5	6764.3	6744.6	6628.9	6665.8	6525.5	6264.4	6101.9	6109.3
55°	6976.1	6958.8	7143.5	7281.4	7303.6	7155.8	6978.5	6781.5	6454.0	6289.1	6239.8
57°	6742.2	6781.5	6985.9	7394.7	7601.5	7426.7	7040.1	6680.6	6244.7	6045.3	5956.6
57.5°	6429.4	6493.4	6848.0	7259.3	7476.0	7461.2	6963.8	6493.4	6104.4	5794.1	5801.5
60°	4710.6	4723.0	5043.1	5695.6	6372.8	6387.6	5781.8	5158.8	4725.4	4388.1	4434.8
62.5°	2484.6	2541.2	2669.3	3193.8	3779.8	3922.7	3555.8	3235.6	2861.4	2605.3	2629.9
65°	1314.9	1307.6	1369.1	1516.9	1805.0	1878.8	1829.6	1576.0	1445.5	1403.6	1406.1
67.5°	1068.7	1081.0	1073.6	1081.0	1100.7	1132.7	1125.3	1135.2	1142.6	1154.9	1152.4
70°	906.2	906.2	911.1	913.6	913.6	928.3	945.6	977.6	980.0	992.4	997.3
72.5°	714.1	709.2	716.6	733.8	736.3	748.6	773.2	792.9	800.3	800.3	785.5
75°	485.1	490.0	499.9	514.6	529.4	551.6	571.3	583.6	588.5	581.1	573.7
77.5°	273.3	278.3	285.6	307.8	325.0	344.7	366.9	379.2	391.5	394.0	379.2
80°	162.5	162.5	174.8	192.1	211.8	231.5	251.2	265.9	270.9	270.9	263.5
82.5°	98.5	101.0	110.8	128.0	145.3	157.6	174.8	187.1	197.0	194.5	189.6
85°	51.7	51.7	61.6	76.3	88.6	101.0	101.0	93.6	88.6	76.3	71.4
87.5°	17.2	14.8	19.7	19.7	17.2	19.7	19.7	22.2	22.2	22.2	22.2
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)