

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: P529966

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16391 lumens
Efficiency: N/A
Efficacy: 106.4 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): 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



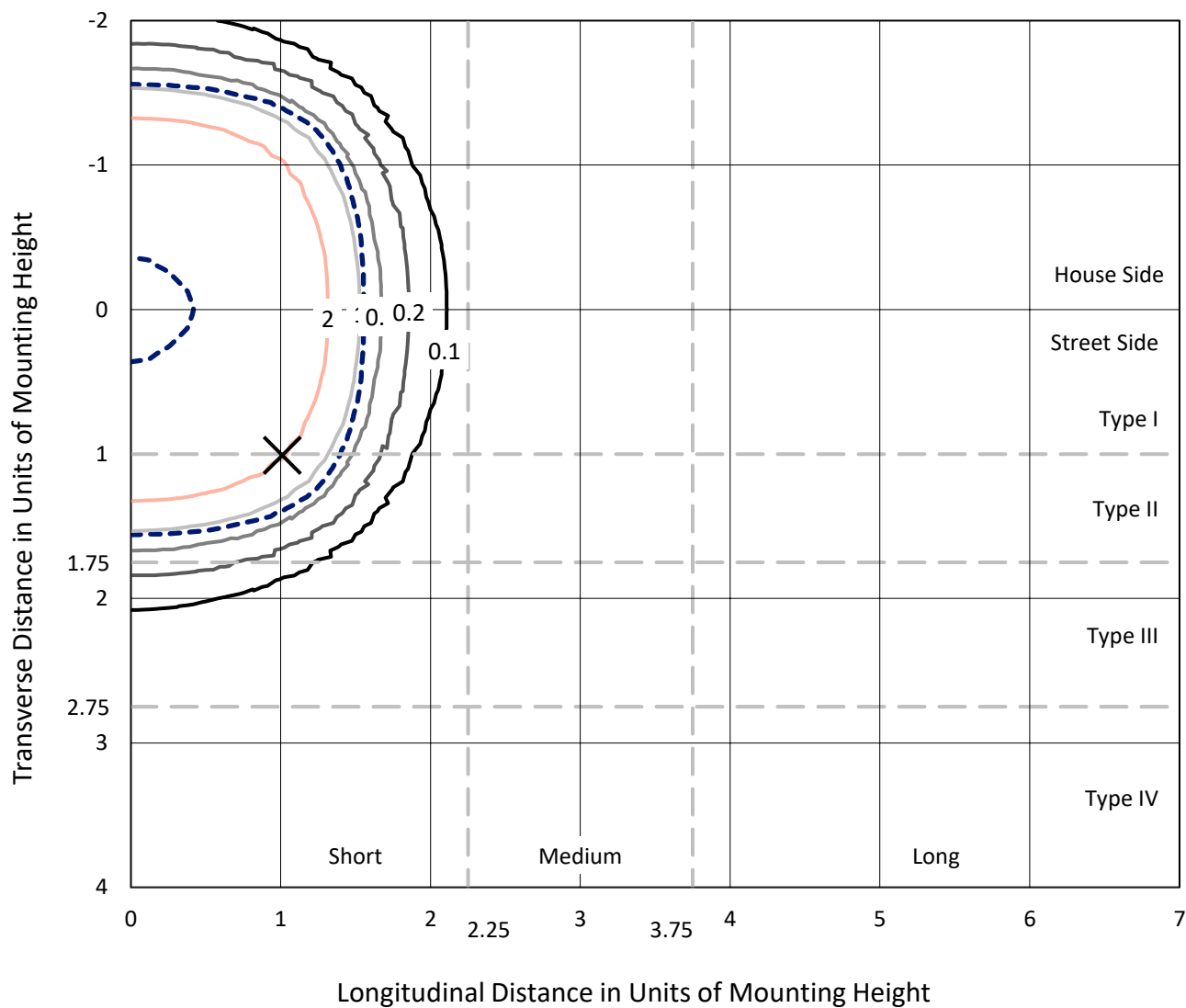
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

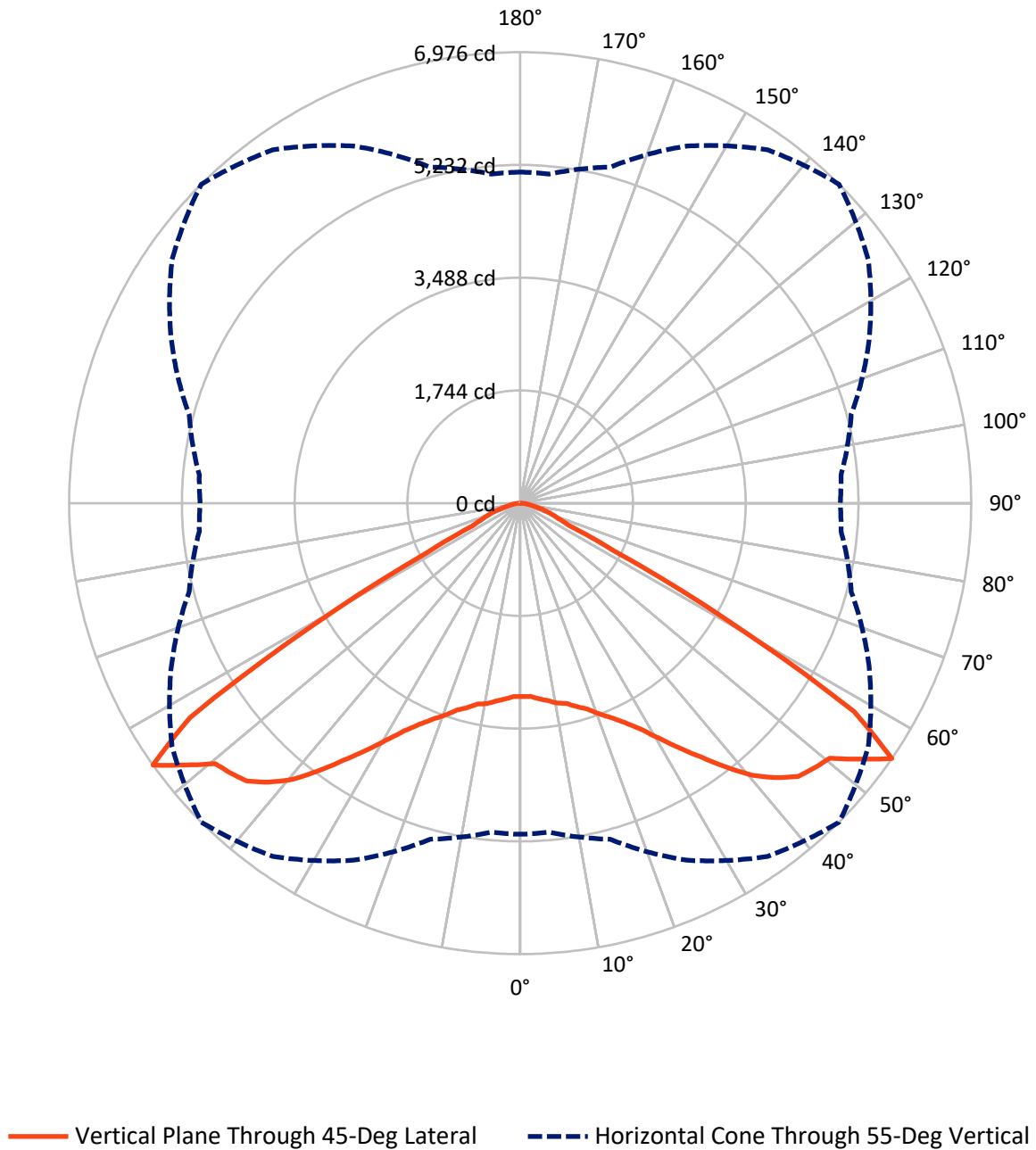


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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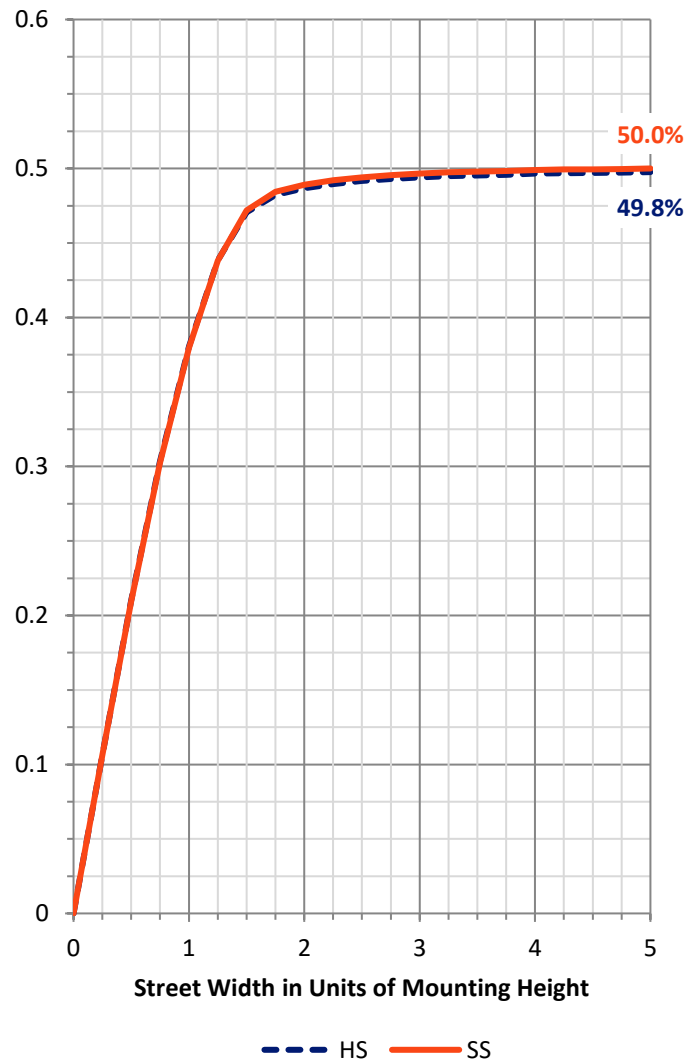
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8195.5	0.0	8195.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8195.5	0.0	8195.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16391.0	0.0	16391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	1.8
10°-20°	926.4	5.7
20°-30°	1727.4	10.5
30°-40°	2892.2	17.6
40°-50°	4500.4	27.5
50°-60°	4672.9	28.5
60°-70°	991.0	6.0
70°-80°	326.4	2.0
80°-90°	62.2	0.4
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°	16391.0	100.0
0°-180°	16391.0	100.0

Coefficient of Utilization



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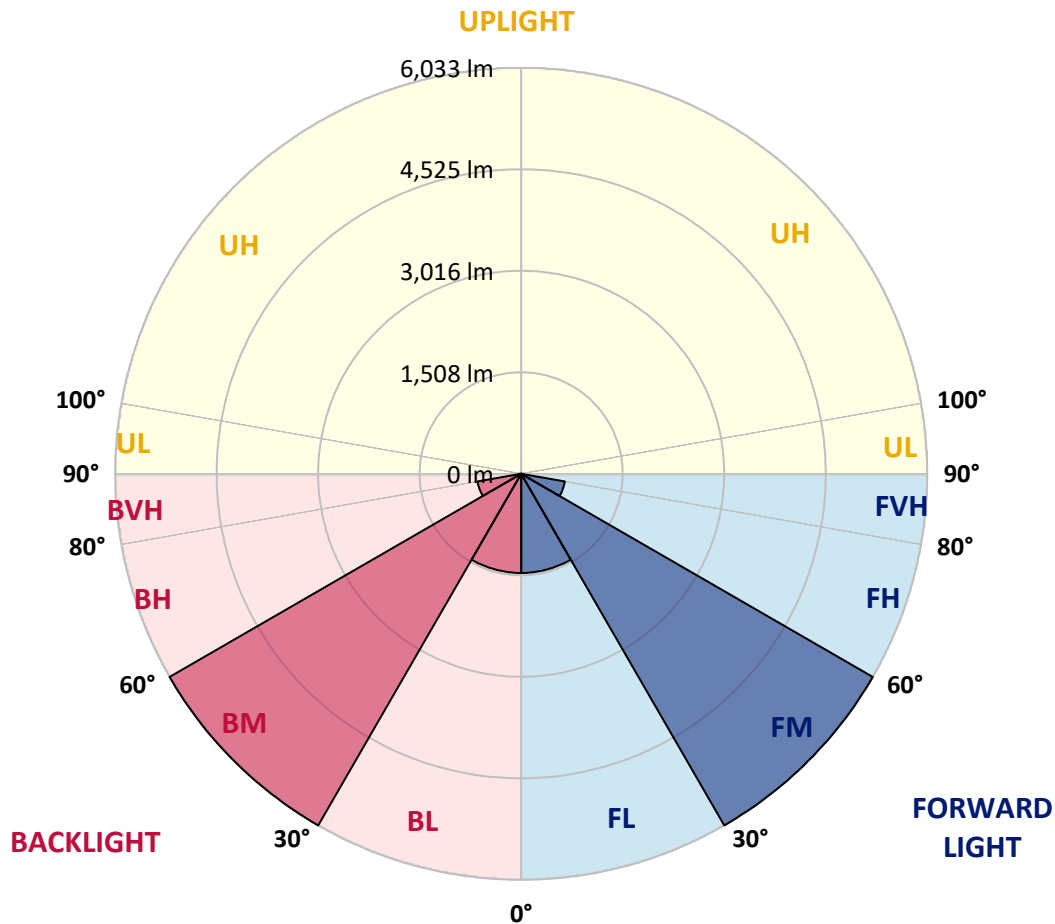
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1473.0	9.0			
FM	(30°-60°)	6032.7	36.8			
FH	(60°-80°)	658.7	4.0			G0/660
FVH	(80°-90°)	31.1	0.2			G1/100
BL	(0°-30°)	1473.0	9.0	B3/2500		
BM	(30°-60°)	6032.7	36.8	B4/8500		
BH	(60°-80°)	658.7	4.0	B2/1000		G0/660
BVH	(80°-90°)	31.1	0.2			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°	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8
2.5°	3028.4	3014.5	2990.8	3008.6	3022.5	2992.8	3004.6	3010.6	3006.6	2990.8	2996.7
5°	3072.0	3064.1	3044.2	3058.1	3040.3	3040.3	3028.4	3012.6	3036.3	3032.4	3042.3
7.5°	3072.0	3062.1	3101.7	3075.9	3083.9	3083.9	3064.1	3048.2	3060.1	3042.3	3032.4
10°	3133.4	3147.2	3129.4	3135.4	3131.4	3145.3	3115.6	3105.6	3095.7	3089.8	3077.9
12.5°	3206.7	3196.8	3202.7	3198.7	3212.6	3177.0	3159.1	3137.3	3155.2	3129.4	3147.2
15°	3266.1	3260.1	3266.1	3281.9	3268.1	3266.1	3234.4	3212.6	3184.9	3190.8	3163.1
17.5°	3347.3	3341.3	3343.3	3357.2	3355.2	3345.3	3321.5	3279.9	3270.0	3254.2	3236.4
20°	3468.1	3458.2	3454.2	3460.2	3470.1	3478.0	3430.5	3414.6	3381.0	3355.2	3325.5
22.5°	3571.1	3567.1	3583.0	3557.2	3579.0	3602.8	3557.2	3549.3	3466.1	3452.3	3420.6
25°	3713.7	3707.8	3697.9	3735.5	3761.2	3759.3	3715.7	3672.1	3608.7	3592.9	3592.9
27.5°	3864.2	3830.6	3882.1	3892.0	3937.5	3951.4	3913.8	3850.4	3791.0	3757.3	3765.2
30°	4052.4	4020.7	4032.6	4103.9	4163.3	4214.8	4119.7	4026.6	3943.5	3884.0	3874.1
32.5°	4240.6	4208.9	4244.5	4313.8	4432.7	4509.9	4416.8	4254.4	4157.4	4070.2	4088.0
35°	4393.1	4416.8	4474.3	4579.2	4702.0	4826.8	4678.3	4553.5	4414.9	4317.8	4331.7
37.5°	4638.7	4712.0	4757.5	4878.3	5052.6	5181.4	5026.9	4864.5	4715.9	4589.2	4545.6
40°	4959.5	5009.0	5060.5	5203.2	5409.1	5537.9	5391.3	5179.4	5032.8	4902.1	4896.2
42.5°	5312.1	5359.6	5413.1	5587.4	5710.2	5807.2	5672.6	5559.7	5397.3	5294.3	5288.3
45°	5722.1	5688.4	5747.8	5862.7	5965.7	6029.1	5941.9	5886.5	5769.6	5674.5	5664.6
47.5°	5995.4	5965.7	6072.7	6175.6	6191.5	6122.2	6140.0	6191.5	6068.7	5912.2	5961.7
50°	6153.9	6153.9	6225.2	6320.2	6290.5	6201.4	6342.0	6346.0	6223.2	6084.5	6084.5
52.5°	5878.5	5939.9	6142.0	6452.9	6552.0	6577.7	6546.0	6411.3	6090.5	5807.2	5793.4
55°	5121.9	5108.1	5381.4	6094.4	6670.8	6975.8	6571.8	5951.8	5300.2	4981.3	4949.6
57.5°	3331.4	3347.3	3755.3	4482.2	5522.0	6090.5	5409.1	4537.7	3755.3	3315.6	3357.2
60°	1499.3	1552.8	1800.4	2343.1	3236.4	3699.8	3244.3	2461.9	1889.5	1640.0	1661.8
62.5°	861.6	871.5	881.4	1045.8	1378.5	1630.1	1432.0	1105.2	974.5	930.9	930.9
65°	726.9	721.0	722.9	736.8	772.5	823.9	802.2	772.5	776.4	772.5	766.5
67.5°	618.0	625.9	619.9	629.8	631.8	639.7	653.6	665.5	667.5	671.4	667.5
70°	507.0	509.0	513.0	520.9	522.9	528.8	548.6	558.5	564.5	564.5	572.4
72.5°	388.2	386.2	390.2	398.1	408.0	410.0	427.8	441.7	449.6	439.7	441.7
75°	255.5	257.5	263.4	269.4	283.2	297.1	303.0	316.9	318.9	322.8	312.9
77.5°	152.5	156.5	162.4	174.3	186.2	198.1	211.9	221.8	225.8	221.8	209.9
80°	99.0	99.0	107.0	116.9	130.7	140.6	148.5	156.5	162.4	156.5	152.5
82.5°	61.4	61.4	71.3	83.2	93.1	99.0	110.9	120.8	126.8	122.8	116.9
85°	31.7	33.7	41.6	51.5	59.4	63.4	61.4	55.5	49.5	47.5	43.6
87.5°	9.9	9.9	11.9	11.9	9.9	9.9	11.9	9.9	11.9	11.9	11.9
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)