

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: P530433

Luminaire Tested: **GALN-SA5C-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19220 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 269
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

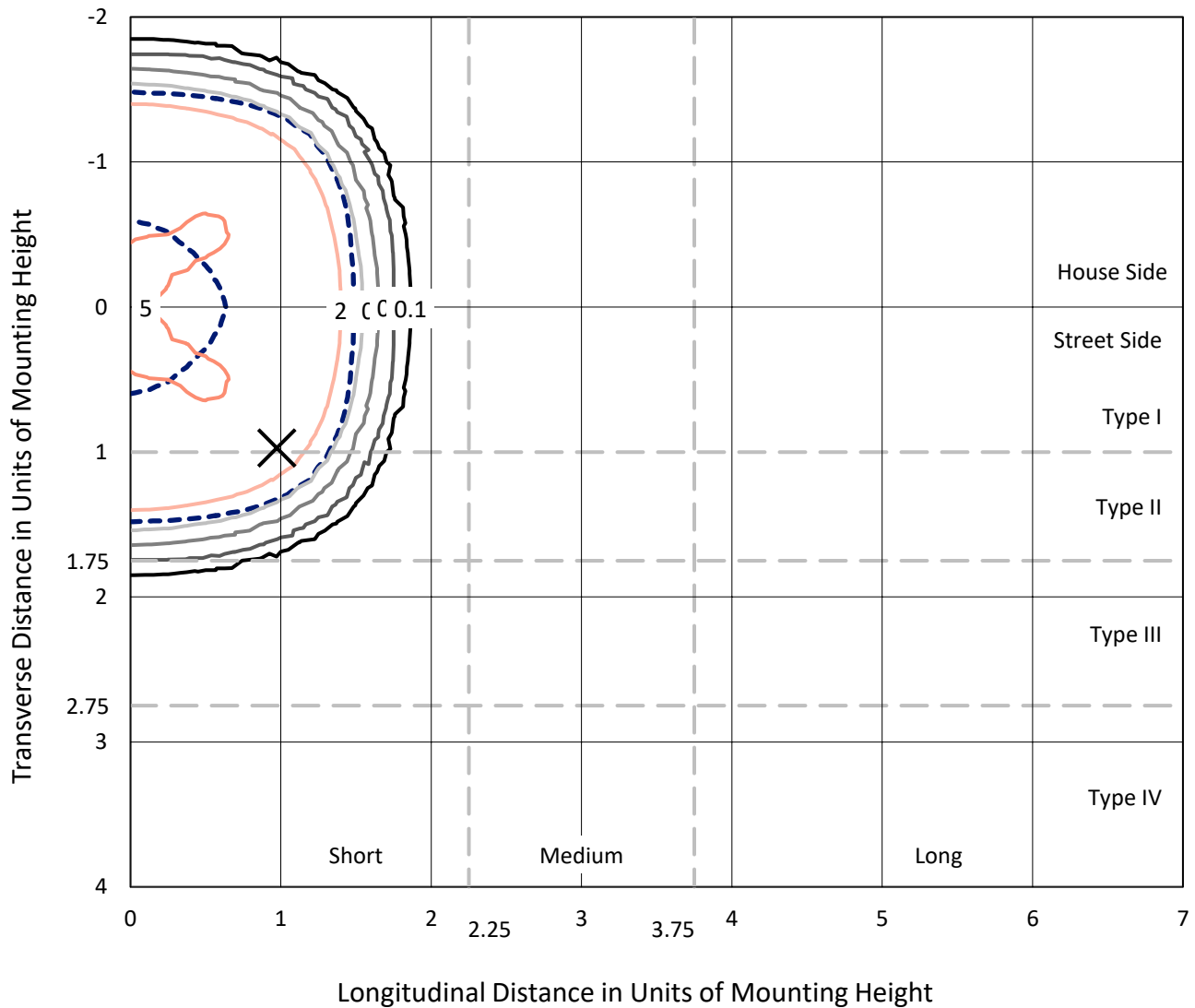


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Iso-Footcandle Lines of Horizontal Illumination

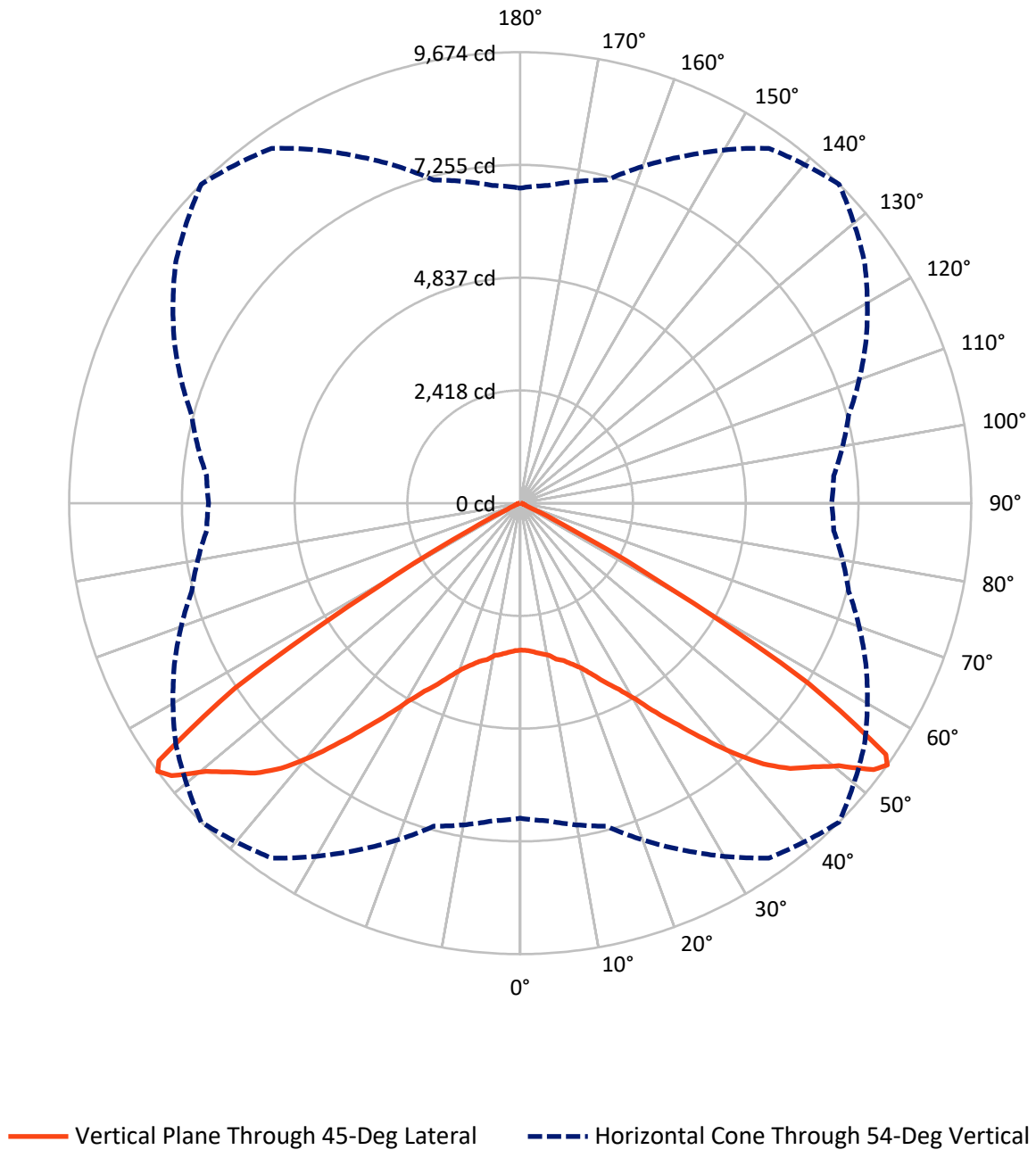
✕ Max cd
 --- 1/2 Max cd



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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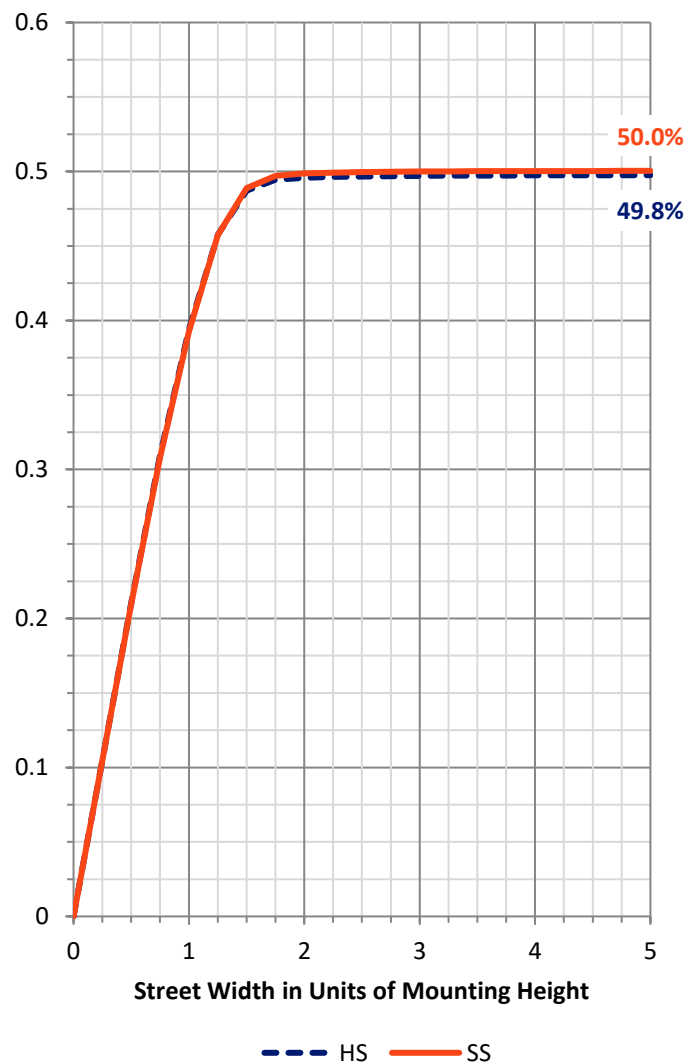
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9610.0	0.0	9610.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9610.0	0.0	9610.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19220.0	0.0	19220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.5	1.6
10°-20°	998.9	5.2
20°-30°	1957.8	10.2
30°-40°	3520.5	18.3
40°-50°	6026.4	31.4
50°-60°	5831.1	30.3
60°-70°	499.2	2.6
70°-80°	59.2	0.3
80°-90°	18.6	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°	19220.0	100.0
0°-180°	19220.0	100.0

Coefficient of Utilization



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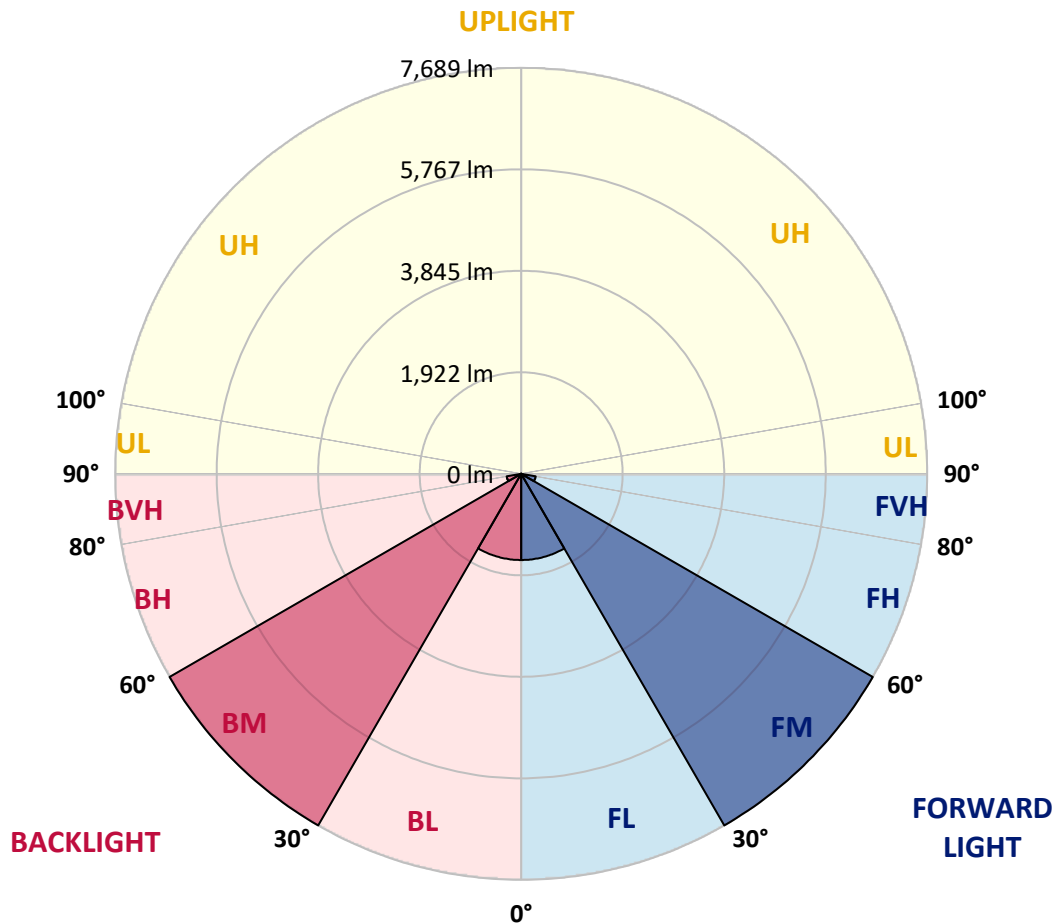
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1632.6	8.5			
FM	(30°-60°)	7689.0	40.0			
FH	(60°-80°)	279.2	1.5			G0/660
FVH	(80°-90°)	9.3	0.0			G0/10
BL	(0°-30°)	1632.6	8.5	B3/2500		
BM	(30°-60°)	7689.0	40.0	B4/8500		
BH	(60°-80°)	279.2	1.5	B1/500		G0/660
BVH	(80°-90°)	9.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3151.5	3151.5	3151.5	3151.5	3151.5	3151.5	3151.5	3151.5	3151.5	3151.5	3151.5
2.5°	3166.7	3185.0	3172.8	3181.9	3181.9	3166.7	3175.8	3139.3	3163.7	3145.4	3148.4
5°	3215.4	3212.4	3212.4	3215.4	3203.2	3209.3	3197.2	3185.0	3175.8	3163.7	3200.2
7.5°	3276.3	3276.3	3255.0	3261.1	3255.0	3264.1	3239.8	3215.4	3206.3	3197.2	3191.1
10°	3334.2	3328.1	3319.0	3346.4	3325.0	3312.9	3300.7	3285.5	3252.0	3239.8	3227.6
12.5°	3419.4	3416.4	3404.2	3431.6	3419.4	3431.6	3385.9	3346.4	3340.3	3300.7	3322.0
15°	3519.9	3547.3	3526.0	3526.0	3519.9	3504.7	3486.4	3468.2	3413.3	3398.1	3401.2
17.5°	3650.8	3641.7	3644.8	3644.8	3675.2	3635.6	3599.1	3553.4	3526.0	3516.9	3486.4
20°	3775.7	3787.9	3784.8	3806.1	3824.4	3781.8	3742.2	3736.1	3660.0	3672.2	3629.5
22.5°	3994.9	3985.8	4001.0	4016.2	4004.1	3998.0	3961.4	3915.8	3848.8	3818.3	3812.2
25°	4226.3	4211.1	4183.7	4220.2	4238.5	4265.9	4195.9	4171.5	4068.0	4022.3	4025.4
27.5°	4424.3	4445.6	4476.0	4491.2	4536.9	4527.8	4479.1	4399.9	4320.7	4269.0	4235.5
30°	4695.3	4707.4	4759.2	4780.5	4859.7	4881.0	4804.9	4713.5	4573.5	4506.5	4466.9
32.5°	4944.9	5030.2	5027.1	5133.7	5261.6	5349.9	5212.9	5072.8	4932.8	4853.6	4783.6
35°	5349.9	5334.7	5423.0	5535.6	5742.7	5843.2	5694.0	5532.6	5319.5	5191.6	5136.8
37.5°	5727.5	5733.6	5852.3	6032.0	6269.5	6424.8	6293.8	6028.9	5809.7	5645.3	5569.1
40°	6275.6	6287.7	6409.5	6613.5	6881.5	7049.0	6896.7	6628.8	6336.5	6208.6	6208.6
42.5°	6918.0	6969.8	7049.0	7225.6	7466.1	7651.9	7514.8	7304.7	7009.4	6845.0	6869.3
45°	7578.8	7603.1	7654.9	7916.8	8029.4	8120.8	7992.9	7895.4	7697.5	7496.6	7463.1
47.5°	8196.9	8206.0	8358.3	8440.5	8528.8	8452.7	8534.9	8407.0	8184.7	7989.8	7950.3
50°	8470.9	8455.7	8671.9	8921.6	8988.6	8854.6	8784.6	8699.3	8361.3	8126.9	8023.3
52.5°	7673.2	7761.5	8163.4	8857.6	9381.4	9494.0	9086.0	8693.2	8062.9	7606.2	7536.2
54°	6759.7	6841.9	7173.8	8203.0	9293.1	9673.7	9016.0	8181.7	7292.6	6750.6	6680.5
55°	5855.4	5764.0	6366.9	7417.4	8879.0	9515.3	8738.9	7520.9	6503.9	6007.6	5910.2
57.5°	3169.8	3185.0	3693.5	4686.1	6239.0	7295.6	6443.0	5088.0	3842.7	3285.5	3236.7
60°	1004.8	1029.2	1251.5	1893.9	2981.0	3559.5	3051.0	2043.1	1412.8	1132.7	1087.0
62.5°	313.6	325.8	356.3	529.8	816.0	1166.2	913.5	548.1	408.0	374.5	380.6
65°	191.8	191.8	194.9	207.1	243.6	283.2	274.0	240.5	231.4	225.3	222.3
67.5°	124.8	121.8	127.9	137.0	143.1	146.2	155.3	164.4	161.4	155.3	155.3
70°	76.1	73.1	79.2	91.3	94.4	100.5	109.6	121.8	118.8	112.7	115.7
72.5°	42.6	42.6	45.7	54.8	63.9	70.0	79.2	88.3	91.3	88.3	88.3
75°	15.2	18.3	24.4	33.5	39.6	48.7	57.9	67.0	76.1	70.0	67.0
77.5°	6.1	6.1	12.2	21.3	30.4	39.6	54.8	63.9	70.0	63.9	57.9
80°	3.0	3.0	9.1	18.3	27.4	36.5	45.7	54.8	57.9	51.8	45.7
82.5°	3.0	3.0	9.1	18.3	27.4	33.5	48.7	54.8	60.9	54.8	45.7
85°	0.0	3.0	9.1	18.3	24.4	27.4	27.4	18.3	15.2	9.1	9.1
87.5°	0.0	0.0	3.0	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)