

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: P531603

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531603
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-SA6D-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 25042 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

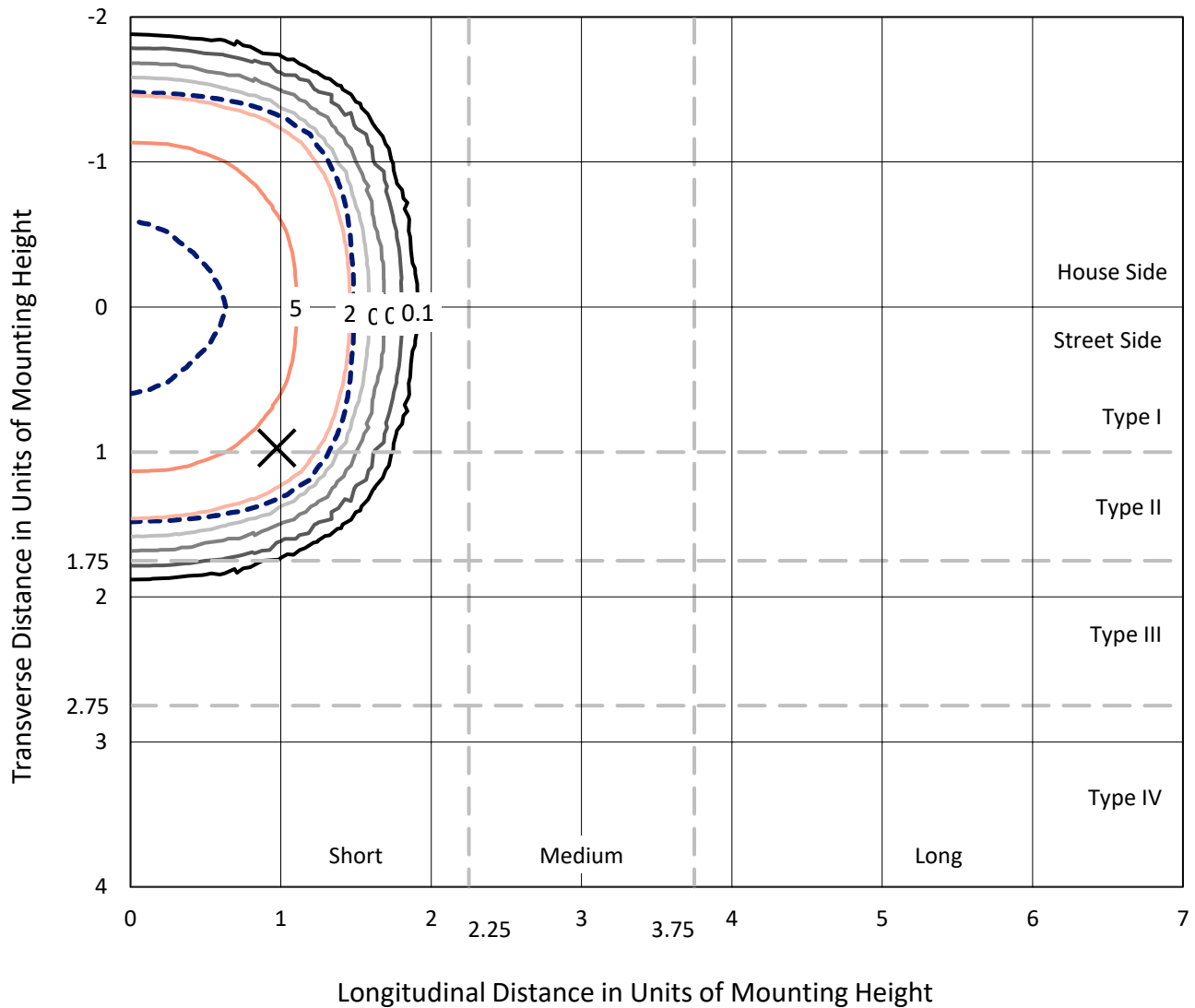
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

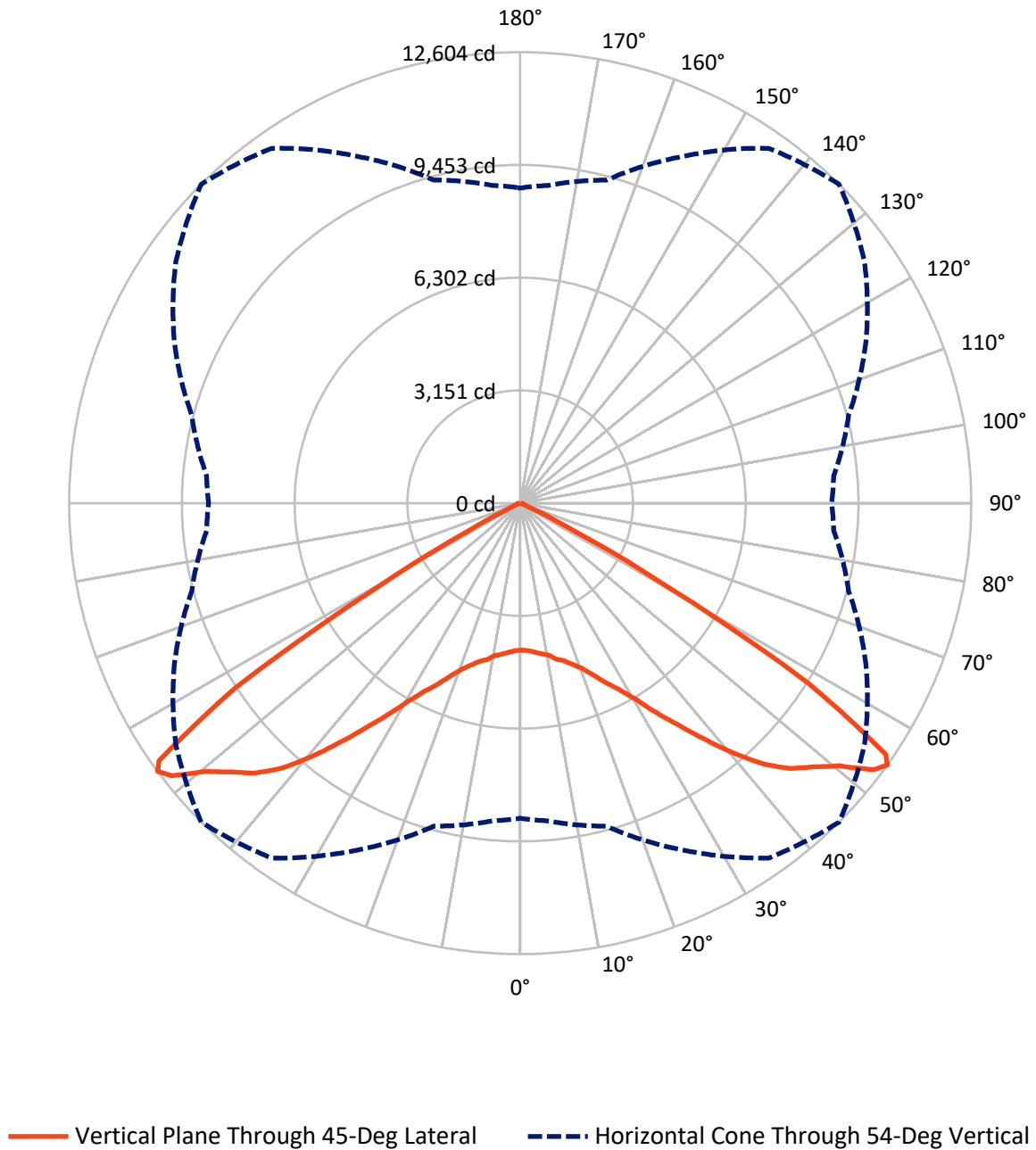
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

REPORT NUMBER: P531603
CATALOG NUMBER: GALN-SA6D-830-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12521.0	0.0	12521.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12521.0	0.0	12521.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25042.0	0.0	25042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	1.6
10°-20°	1301.5	5.2
20°-30°	2550.8	10.2
30°-40°	4586.9	18.3
40°-50°	7851.9	31.4
50°-60°	7597.4	30.3
60°-70°	650.4	2.6
70°-80°	77.1	0.3
80°-90°	24.2	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°	25042.0	100.0
0°-180°	25042.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531603

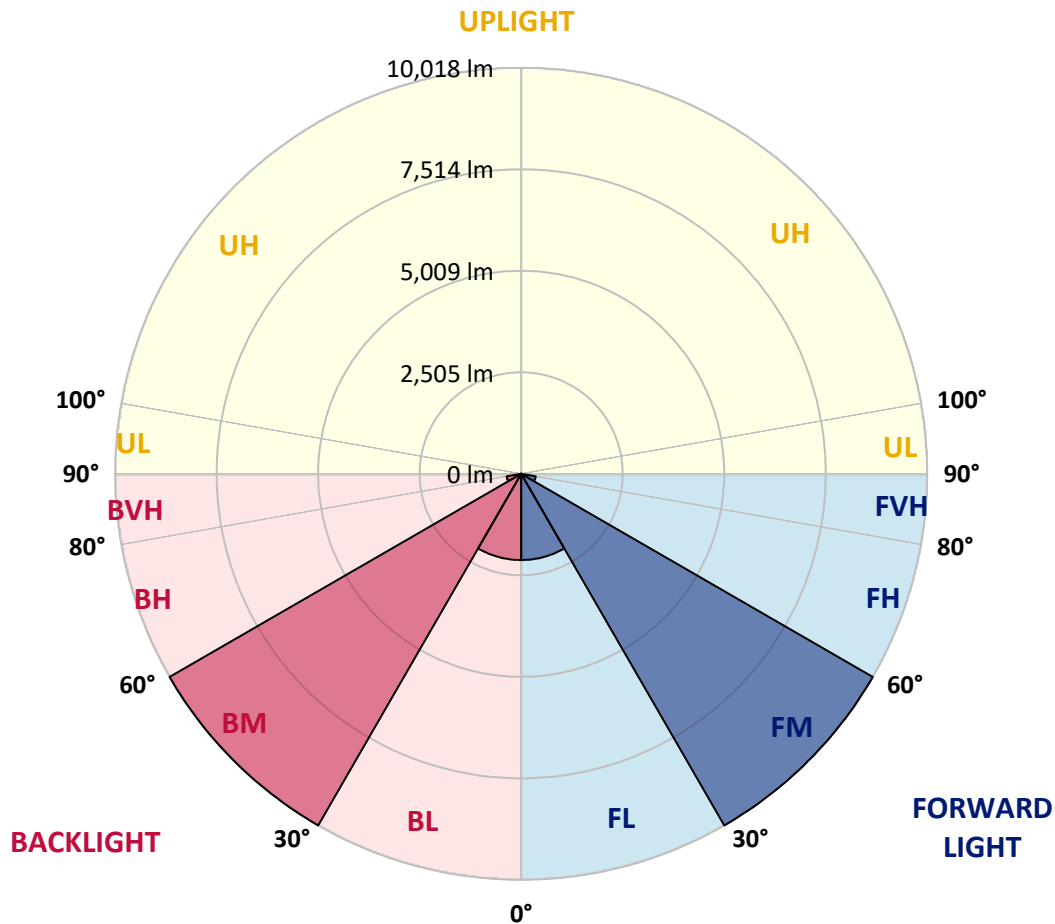
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2127.1	8.5			
FM	(30°-60°)	10018.1	40.0			
FH	(60°-80°)	363.7	1.5			G0/660
FVH	(80°-90°)	12.1	0.0			G1/100
BL	(0°-30°)	2127.1	8.5	B3/2500		
BM	(30°-60°)	10018.1	40.0	B5		
BH	(60°-80°)	363.7	1.5	B1/500		G0/660
BVH	(80°-90°)	12.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1
2.5°	4125.9	4149.7	4133.9	4145.8	4145.8	4125.9	4137.8	4090.2	4122.0	4098.2	4102.1
5°	4189.4	4185.5	4185.5	4189.4	4173.6	4181.5	4165.6	4149.7	4137.8	4122.0	4169.6
7.5°	4268.8	4268.8	4241.0	4248.9	4241.0	4252.9	4221.2	4189.4	4177.5	4165.6	4157.7
10°	4344.1	4336.2	4324.3	4360.0	4332.2	4316.4	4300.5	4280.7	4237.0	4221.2	4205.3
12.5°	4455.2	4451.3	4435.4	4471.1	4455.2	4471.1	4411.6	4360.0	4352.1	4300.5	4328.3
15°	4586.1	4621.9	4594.1	4594.1	4586.1	4566.3	4542.5	4518.7	4447.3	4427.5	4431.4
17.5°	4756.7	4744.8	4748.8	4748.8	4788.5	4736.9	4689.3	4629.8	4594.1	4582.2	4542.5
20°	4919.4	4935.3	4931.3	4959.1	4982.9	4927.3	4875.8	4867.8	4768.6	4784.5	4729.0
22.5°	5205.0	5193.1	5213.0	5232.8	5216.9	5209.0	5161.4	5101.9	5014.6	4974.9	4967.0
25°	5506.5	5486.7	5451.0	5498.6	5522.4	5558.1	5466.9	5435.1	5300.3	5240.7	5244.7
27.5°	5764.4	5792.2	5831.9	5851.7	5911.2	5899.3	5835.8	5732.7	5629.5	5562.1	5518.5
30°	6117.5	6133.4	6200.8	6228.6	6331.7	6359.5	6260.3	6141.3	5958.8	5871.5	5820.0
32.5°	6442.8	6553.9	6549.9	6688.8	6855.4	6970.5	6791.9	6609.4	6427.0	6323.8	6232.6
35°	6970.5	6950.6	7065.7	7212.5	7482.2	7613.2	7418.8	7208.5	6930.8	6764.2	6692.8
37.5°	7462.4	7470.3	7625.1	7859.1	8168.6	8370.9	8200.3	7855.2	7569.5	7355.3	7256.1
40°	8176.5	8192.4	8351.1	8616.9	8966.0	9184.2	8985.8	8636.7	8255.9	8089.2	8089.2
42.5°	9013.6	9081.0	9184.2	9414.3	9727.7	9969.7	9791.2	9517.4	9132.6	8918.4	8950.1
45°	9874.5	9906.2	9973.7	10314.9	10461.6	10580.7	10414.0	10287.1	10029.2	9767.4	9723.7
47.5°	10679.8	10691.7	10890.1	10997.2	11112.3	11013.1	11120.2	10953.6	10664.0	10410.1	10358.5
50°	11036.9	11017.1	11298.7	11624.1	11711.3	11536.8	11445.5	11334.4	10894.1	10588.6	10453.7
52.5°	9997.5	10112.5	10636.2	11540.7	12223.1	12369.9	11838.3	11326.5	10505.3	9910.2	9819.0
54°	8807.3	8914.4	9346.9	10687.8	12108.1	12604.0	11747.0	10660.0	9501.6	8795.4	8704.2
55°	7629.0	7510.0	8295.5	9664.2	11568.5	12397.7	11386.0	9799.1	8474.1	7827.4	7700.4
57.5°	4129.9	4149.7	4812.3	6105.6	8128.9	9505.5	8394.7	6629.3	5006.7	4280.7	4217.2
60°	1309.2	1340.9	1630.5	2467.6	3883.9	4637.7	3975.2	2662.0	1840.8	1475.8	1416.3
62.5°	408.6	424.5	464.2	690.3	1063.2	1519.5	1190.2	714.1	531.6	488.0	495.9
65°	249.9	249.9	253.9	269.8	317.4	369.0	357.1	313.4	301.5	293.6	289.6
67.5°	162.7	158.7	166.6	178.5	186.5	190.4	202.3	214.2	210.3	202.3	202.3
70°	99.2	95.2	103.1	119.0	123.0	130.9	142.8	158.7	154.7	146.8	150.8
72.5°	55.5	55.5	59.5	71.4	83.3	91.2	103.1	115.1	119.0	115.1	115.1
75°	19.8	23.8	31.7	43.6	51.6	63.5	75.4	87.3	99.2	91.2	87.3
77.5°	7.9	7.9	15.9	27.8	39.7	51.6	71.4	83.3	91.2	83.3	75.4
80°	4.0	4.0	11.9	23.8	35.7	47.6	59.5	71.4	75.4	67.4	59.5
82.5°	4.0	4.0	11.9	23.8	35.7	43.6	63.5	71.4	79.3	71.4	59.5
85°	0.0	4.0	11.9	23.8	31.7	35.7	35.7	23.8	19.8	11.9	11.9
87.5°	0.0	0.0	4.0	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)