

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: P533239

Luminaire Tested: **GALN-SA8C-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27074 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 429
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

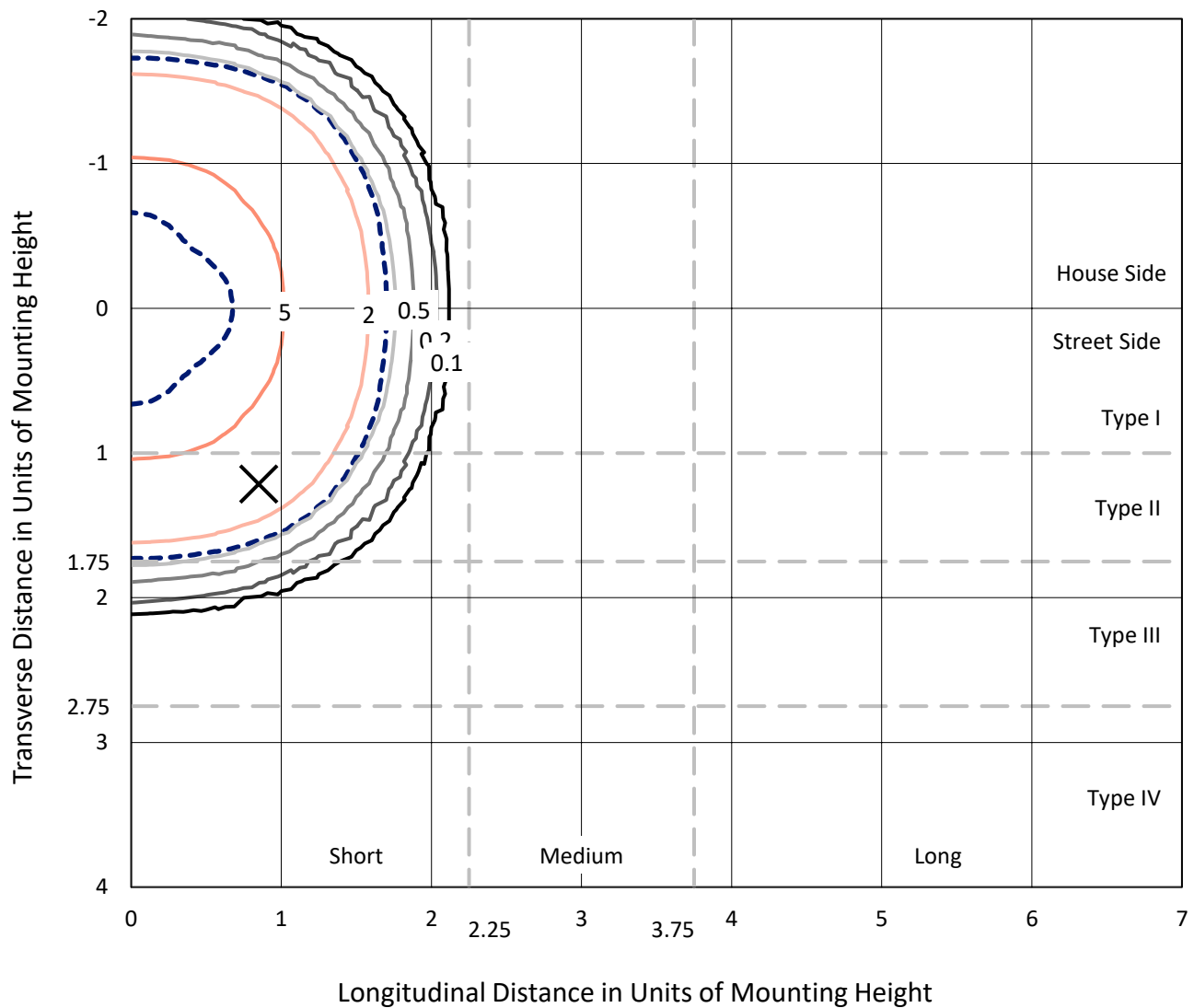


REPORT NUMBER: P533239

CATALOG NUMBER: GALN-SA8C-830-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

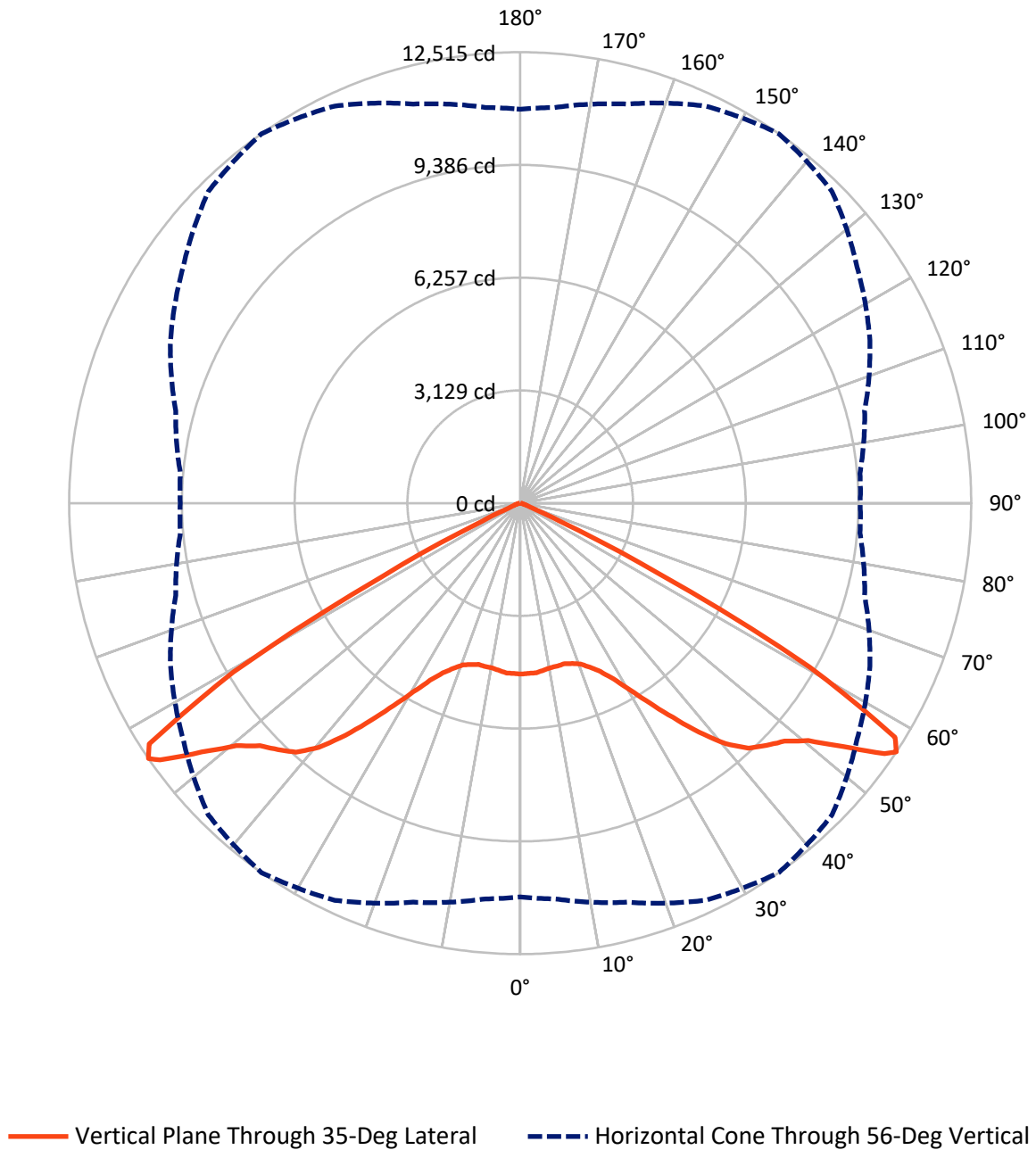
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

REPORT NUMBER: P533239
CATALOG NUMBER: GALN-SA8C-830-U-5MQ-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13537.0	0.0	13537.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13537.0	0.0	13537.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27074.0	0.0	27074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.9	1.6
10°-20°	1301.7	4.8
20°-30°	2357.2	8.7
30°-40°	4371.0	16.1
40°-50°	7174.8	26.5
50°-60°	9243.3	34.1
60°-70°	2037.1	7.5
70°-80°	118.2	0.4
80°-90°	24.9	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°	27074.0	100.0
0°-180°	27074.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533239

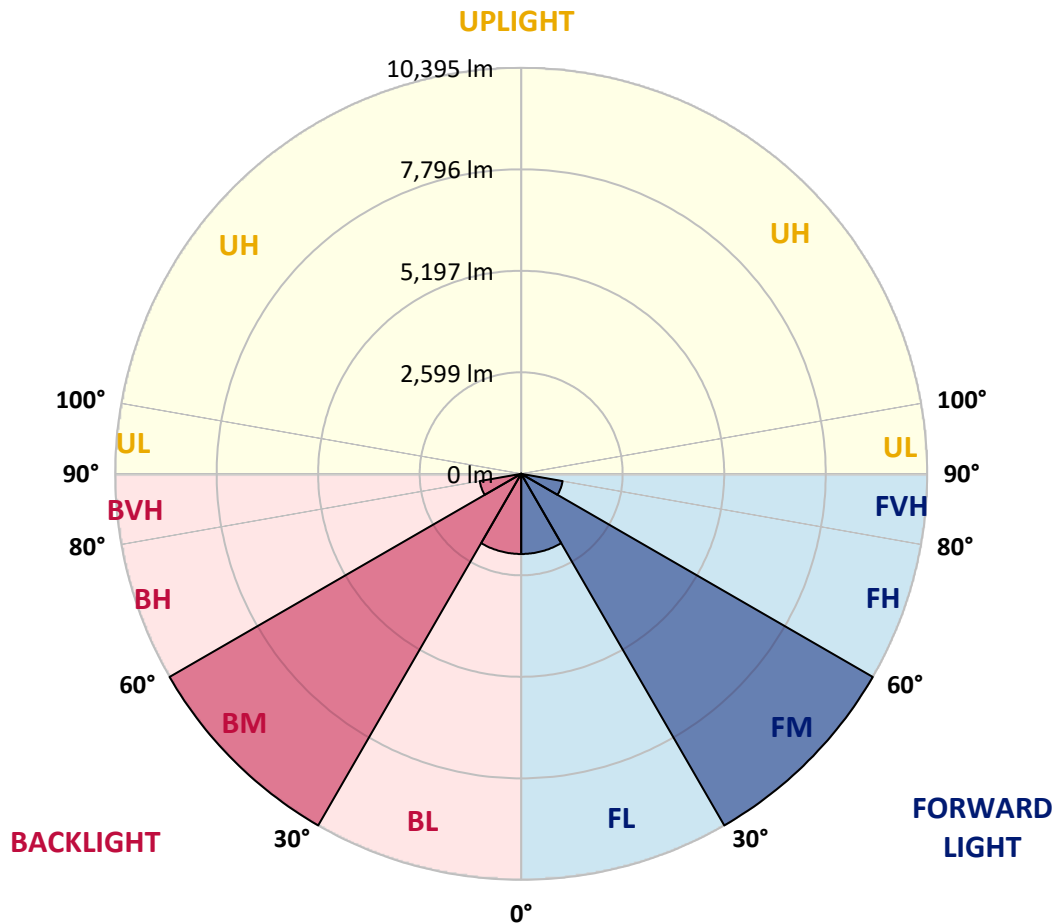
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2052.4	7.6			
FM	(30°-60°)	10394.5	38.4			
FH	(60°-80°)	1077.7	4.0			G1/1800
FVH	(80°-90°)	12.4	0.0			G1/100
BL	(0°-30°)	2052.4	7.6	B3/2500		
BM	(30°-60°)	10394.5	38.4	B5		
BH	(60°-80°)	1077.7	4.0	B3/2500		G1/1800
BVH	(80°-90°)	12.4	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



REPORT NUMBER: P533239

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4743.9	4743.9	4743.9	4743.9	4743.9	4743.9	4743.9	4743.9	4743.9	4743.9	4743.9
2.5°	4753.8	4753.8	4758.7	4763.6	4729.2	4714.5	4719.4	4709.6	4704.7	4719.4	4719.4
5°	4739.0	4739.0	4724.3	4729.2	4729.2	4685.1	4685.1	4694.9	4694.9	4665.5	4655.6
7.5°	4699.8	4690.0	4670.4	4694.9	4680.2	4680.2	4645.8	4621.3	4611.5	4631.1	4611.5
10°	4616.4	4621.3	4640.9	4650.7	4640.9	4670.4	4611.5	4577.1	4542.8	4528.1	4528.1
12.5°	4577.1	4606.6	4577.1	4601.7	4636.0	4611.5	4577.1	4552.6	4503.6	4483.9	4483.9
15°	4572.2	4591.9	4601.7	4636.0	4621.3	4631.1	4562.4	4533.0	4459.4	4425.1	4410.3
17.5°	4567.3	4591.9	4606.6	4670.4	4680.2	4685.1	4631.1	4542.8	4479.0	4444.7	4410.3
20°	4621.3	4631.1	4660.5	4724.3	4763.6	4832.3	4734.1	4640.9	4503.6	4464.3	4449.6
22.5°	4690.0	4739.0	4768.5	4837.2	4940.2	4999.1	4871.5	4753.8	4611.5	4562.4	4503.6
25°	4910.7	4900.9	4950.0	5092.3	5175.7	5219.8	5116.8	4945.1	4758.7	4699.8	4709.6
27.5°	5185.5	5195.3	5239.4	5396.4	5519.1	5587.8	5465.1	5239.4	5057.9	4959.8	4950.0
30°	5543.6	5533.8	5582.8	5793.8	6014.6	6117.6	5901.7	5636.8	5460.2	5332.6	5362.1
32.5°	5921.3	5926.3	6063.6	6254.9	6613.1	6814.2	6465.9	6142.1	5877.2	5788.9	5744.7
35°	6480.6	6505.1	6613.1	6907.4	7304.8	7564.8	7182.1	6794.6	6490.4	6328.5	6348.2
37.5°	7172.3	7147.8	7329.3	7648.2	8065.2	8256.5	7932.7	7491.2	7182.1	7074.2	7142.9
40°	7908.2	7932.7	8026.0	8315.4	8781.5	8909.0	8428.2	8187.8	7918.0	7864.1	7947.5
42.5°	8644.1	8629.4	8698.1	8958.1	9296.6	9208.3	8923.7	8781.5	8590.1	8482.2	8595.0
45°	9183.7	9159.2	9286.8	9463.4	9586.0	9419.2	9291.7	9242.6	9144.5	9026.7	9129.8
47.5°	9708.7	9689.0	9811.7	9860.7	9870.5	9649.8	9674.3	9762.6	9517.3	9272.0	9389.8
50°	10155.1	10120.7	10272.8	10380.8	10356.2	10003.0	10091.3	10003.0	9620.4	9330.9	9286.8
52.5°	10900.8	10915.5	11077.4	11273.6	11214.7	10920.4	10792.8	10390.6	9900.0	9640.0	9487.9
55°	11371.7	11298.1	11577.8	12200.8	12269.5	11965.3	11401.2	10807.6	10071.7	9752.8	9713.6
56°	10930.2	11023.4	11464.9	12161.6	12514.8	12235.2	11415.9	10704.5	9895.1	9463.4	9433.9
57.5°	9806.8	9757.7	10356.2	11308.0	12269.5	12151.8	11013.6	9968.7	9026.7	8541.1	8482.2
60°	6102.9	6245.1	6770.1	7947.5	9232.8	9291.7	8163.3	7265.5	6166.6	5734.9	5837.9
62.5°	2389.1	2266.5	2595.2	3473.3	4356.4	4552.6	4125.8	3429.2	2816.0	2389.1	2359.7
65°	554.4	539.6	608.3	838.9	1172.5	1358.9	1290.2	927.2	681.9	647.6	598.5
67.5°	314.0	314.0	299.3	299.3	328.7	348.3	333.6	328.7	343.4	358.1	353.2
70°	220.8	215.9	206.0	211.0	201.1	201.1	215.9	240.4	260.0	260.0	264.9
72.5°	132.5	132.5	132.5	147.2	147.2	147.2	161.9	181.5	186.4	181.5	176.6
75°	58.9	58.9	68.7	83.4	93.2	98.1	112.8	122.6	132.5	122.6	112.8
77.5°	14.7	14.7	24.5	34.3	44.2	54.0	73.6	88.3	93.2	88.3	73.6
80°	4.9	4.9	9.8	24.5	44.2	54.0	73.6	78.5	83.4	73.6	58.9
82.5°	4.9	4.9	9.8	24.5	34.3	44.2	58.9	68.7	73.6	63.8	58.9
85°	0.0	4.9	9.8	19.6	29.4	39.2	39.2	29.4	24.5	14.7	19.6
87.5°	0.0	0.0	4.9	4.9	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)