

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: P528562

Luminaire Tested: **GALN-SA3C-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528562
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-SA3C-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 15022 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 160
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



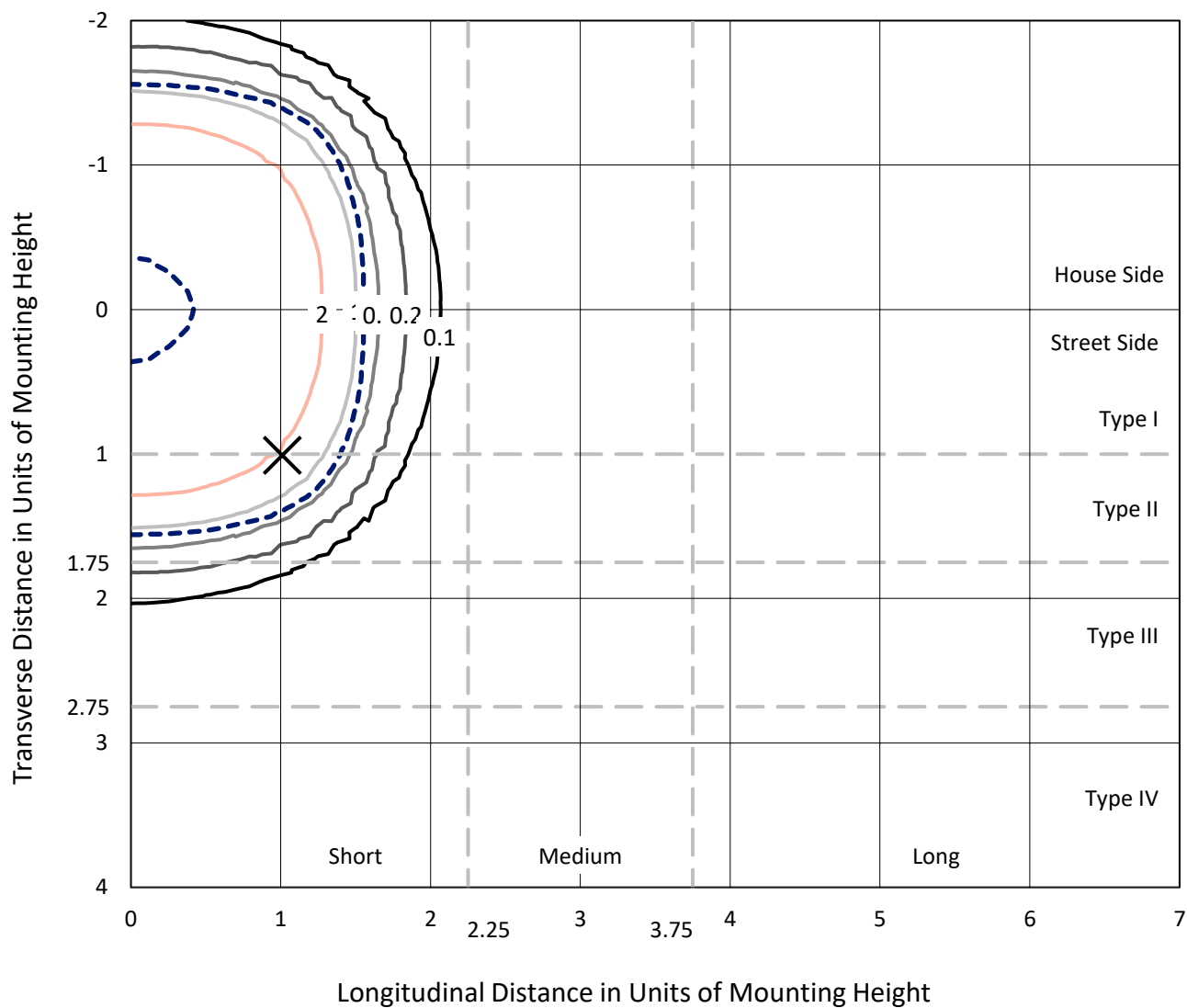
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

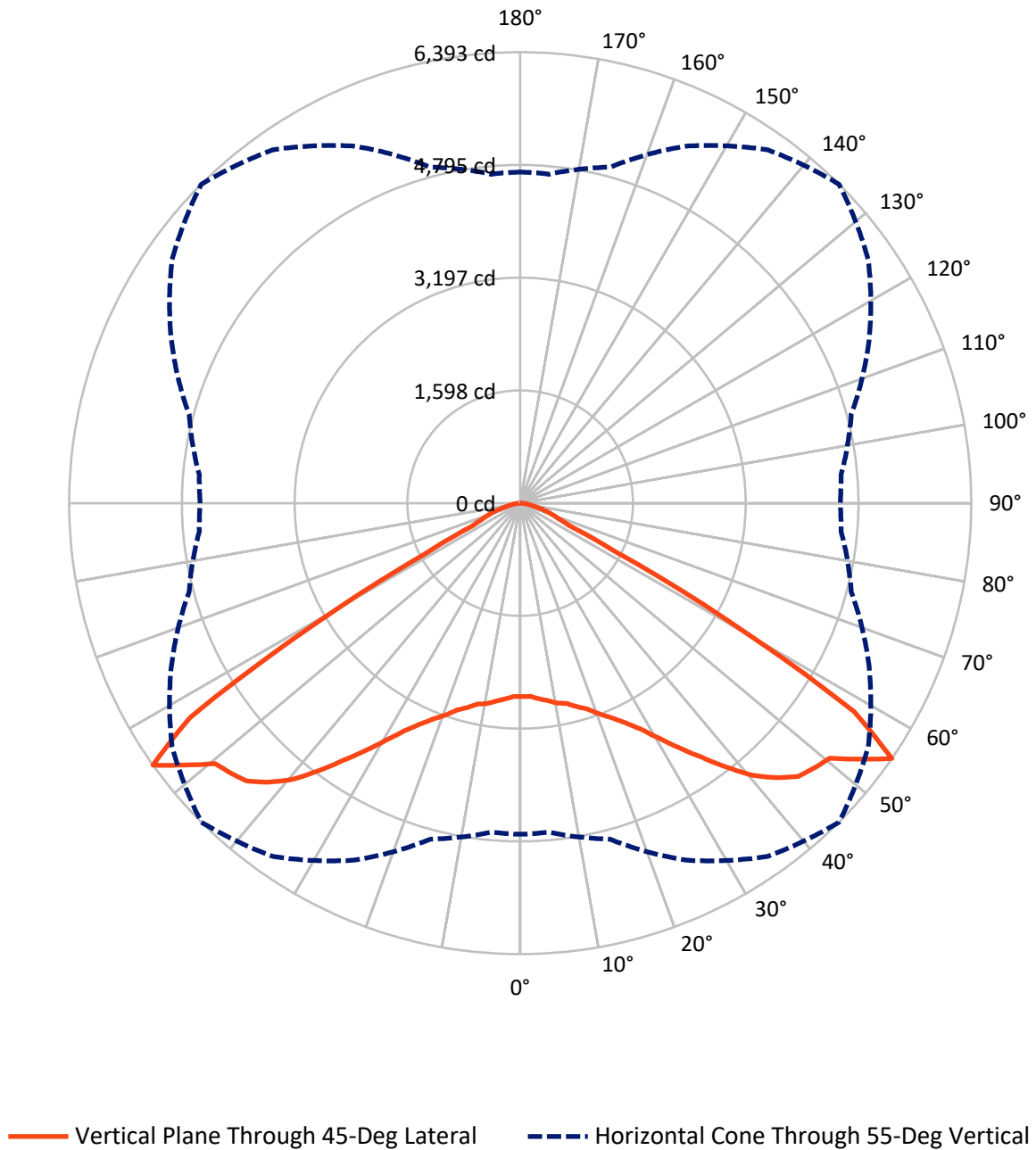
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	7511.0	0.0	7511.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7511.0	0.0	7511.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15022.0	0.0	15022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	1.8
10°-20°	849.0	5.7
20°-30°	1583.1	10.5
30°-40°	2650.6	17.6
40°-50°	4124.5	27.5
50°-60°	4282.6	28.5
60°-70°	908.2	6.0
70°-80°	299.1	2.0
80°-90°	57.0	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°	15022.0	100.0
0°-180°	15022.0	100.0

Coefficient of Utilization



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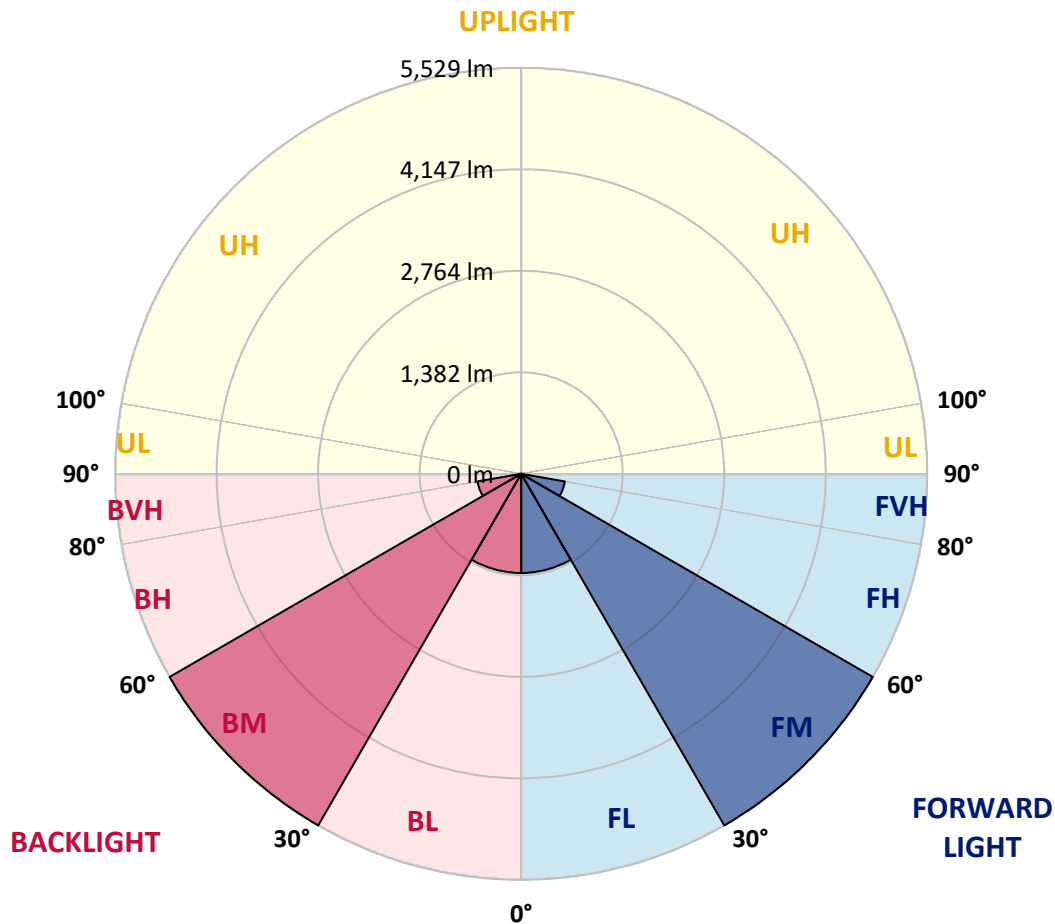
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.0	9.0			
FM	(30°-60°)	5528.9	36.8			
FH	(60°-80°)	603.6	4.0			G0/660
FVH	(80°-90°)	28.5	0.2			G1/100
BL	(0°-30°)	1350.0	9.0	B3/2500		
BM	(30°-60°)	5528.9	36.8	B4/8500		
BH	(60°-80°)	603.6	4.0	B2/1000		G0/660
BVH	(80°-90°)	28.5	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°	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2775.5	2762.8	2741.0	2757.3	2770.0	2742.8	2753.7	2759.1	2755.5	2741.0	2746.4
5°	2815.4	2808.1	2790.0	2802.7	2786.4	2786.4	2775.5	2760.9	2782.7	2779.1	2788.2
7.5°	2815.4	2806.3	2842.6	2819.0	2826.3	2826.3	2808.1	2793.6	2804.5	2788.2	2779.1
10°	2871.7	2884.4	2868.0	2873.5	2869.9	2882.6	2855.3	2846.3	2837.2	2831.7	2820.8
12.5°	2938.8	2929.8	2935.2	2931.6	2944.3	2911.6	2895.3	2875.3	2891.6	2868.0	2884.4
15°	2993.3	2987.8	2993.3	3007.8	2995.1	2993.3	2964.2	2944.3	2918.9	2924.3	2898.9
17.5°	3067.7	3062.3	3064.1	3076.8	3075.0	3065.9	3044.1	3006.0	2996.9	2982.4	2966.1
20°	3178.4	3169.4	3165.7	3171.2	3180.3	3187.5	3144.0	3129.4	3098.6	3075.0	3047.7
22.5°	3272.8	3269.2	3283.7	3260.1	3280.1	3301.9	3260.1	3252.9	3176.6	3163.9	3134.9
25°	3403.5	3398.1	3389.0	3423.5	3447.1	3445.3	3405.3	3365.4	3307.3	3292.8	3292.8
27.5°	3541.5	3510.6	3557.8	3566.9	3608.7	3621.4	3586.9	3528.8	3474.3	3443.5	3450.7
30°	3713.9	3684.9	3695.8	3761.1	3815.6	3862.8	3775.7	3690.3	3614.1	3559.6	3550.6
32.5°	3886.4	3857.3	3890.0	3953.5	4062.5	4133.2	4047.9	3899.1	3810.1	3730.3	3746.6
35°	4026.2	4047.9	4100.6	4196.8	4309.3	4423.7	4287.5	4173.2	4046.1	3957.2	3969.9
37.5°	4251.2	4318.4	4360.2	4470.9	4630.6	4748.6	4607.0	4458.2	4322.0	4205.9	4165.9
40°	4545.3	4590.7	4637.9	4768.6	4957.4	5075.3	4941.0	4746.8	4612.5	4492.7	4487.2
42.5°	4868.4	4912.0	4961.0	5120.7	5233.3	5322.2	5198.8	5095.3	4946.5	4852.1	4846.6
45°	5244.2	5213.3	5267.8	5373.0	5467.4	5525.5	5445.7	5394.8	5287.7	5200.6	5191.5
47.5°	5494.7	5467.4	5565.5	5659.8	5674.4	5610.8	5627.2	5674.4	5561.8	5418.4	5463.8
50°	5639.9	5639.9	5705.2	5792.4	5765.1	5683.4	5812.3	5816.0	5703.4	5576.3	5576.3
52.5°	5387.6	5443.8	5629.0	5914.0	6004.7	6028.3	5999.3	5875.9	5581.8	5322.2	5309.5
55°	4694.2	4681.4	4931.9	5585.4	6113.7	6393.2	6022.9	5454.7	4857.5	4565.3	4536.2
57.5°	3053.2	3067.7	3441.7	4107.8	5060.8	5581.8	4957.4	4158.7	3441.7	3038.7	3076.8
60°	1374.1	1423.1	1650.0	2147.4	2966.1	3390.8	2973.3	2256.3	1731.7	1503.0	1523.0
62.5°	789.6	798.7	807.8	958.4	1263.4	1493.9	1312.4	1012.9	893.1	853.2	853.2
65°	666.2	660.7	662.6	675.3	707.9	755.1	735.2	707.9	711.6	707.9	702.5
67.5°	566.3	573.6	568.2	577.2	579.1	586.3	599.0	609.9	611.7	615.4	611.7
70°	464.7	466.5	470.1	477.4	479.2	484.7	502.8	511.9	517.3	517.3	524.6
72.5°	355.8	354.0	357.6	364.9	373.9	375.7	392.1	404.8	412.1	403.0	404.8
75°	234.2	236.0	241.4	246.9	259.6	272.3	277.7	290.4	292.2	295.9	286.8
77.5°	139.8	143.4	148.8	159.7	170.6	181.5	194.2	203.3	206.9	203.3	192.4
80°	90.8	90.8	98.0	107.1	119.8	128.9	136.1	143.4	148.8	143.4	139.8
82.5°	56.3	56.3	65.3	76.2	85.3	90.8	101.7	110.7	116.2	112.5	107.1
85°	29.0	30.9	38.1	47.2	54.5	58.1	56.3	50.8	45.4	43.6	39.9
87.5°	9.1	9.1	10.9	10.9	9.1	9.1	10.9	9.1	10.9	10.9	10.9
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)