

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: P453380

Luminaire Tested: **GALN-SA4B-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18761 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

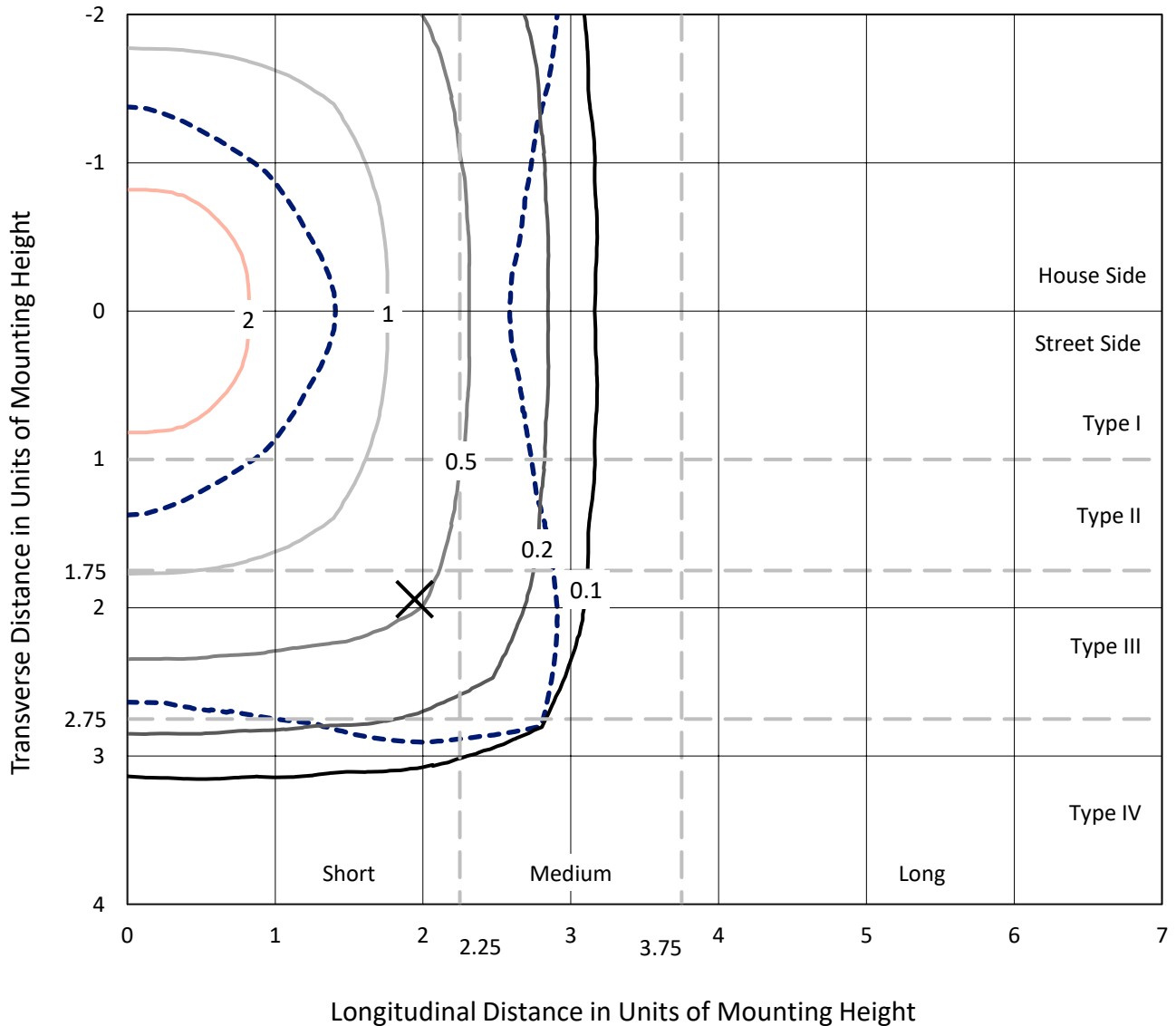
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453380
 CATALOG NUMBER: GALN-SA4B-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

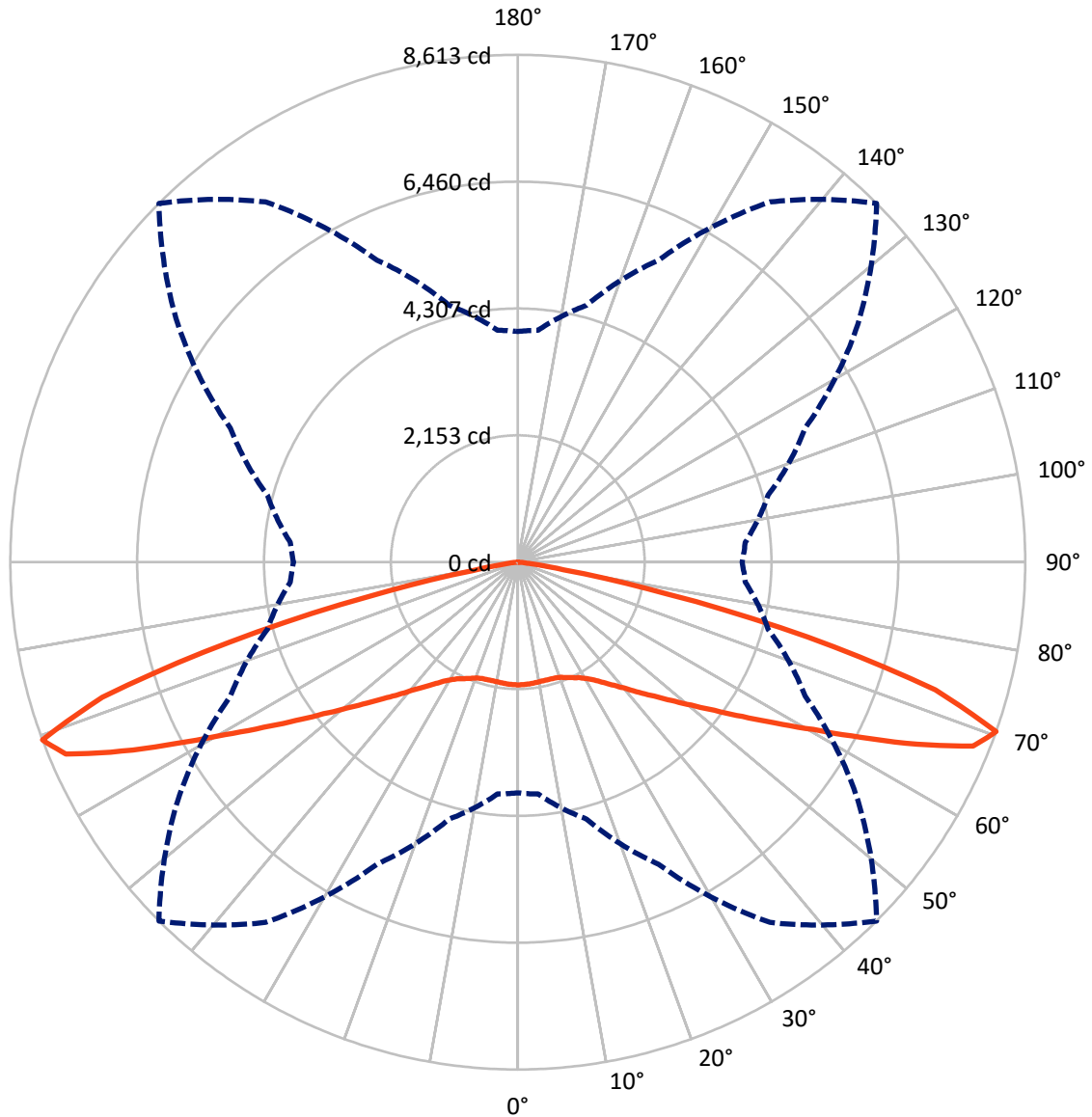
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

REPORT NUMBER: P453380
CATALOG NUMBER: GALN-SA4B-830-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P453380

CATALOG NUMBER: GALN-SA4B-830-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9380.5	0.0	9380.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9380.5	0.0	9380.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18761.0	0.0	18761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	1.1
10°-20°	579.7	3.1
20°-30°	991.5	5.3
30°-40°	1573.7	8.4
40°-50°	2538.8	13.5
50°-60°	4130.7	22.0
60°-70°	5988.1	31.9
70°-80°	2656.1	14.2
80°-90°	104.8	0.6
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°	18761.0	100.0
0°-180°	18761.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453380

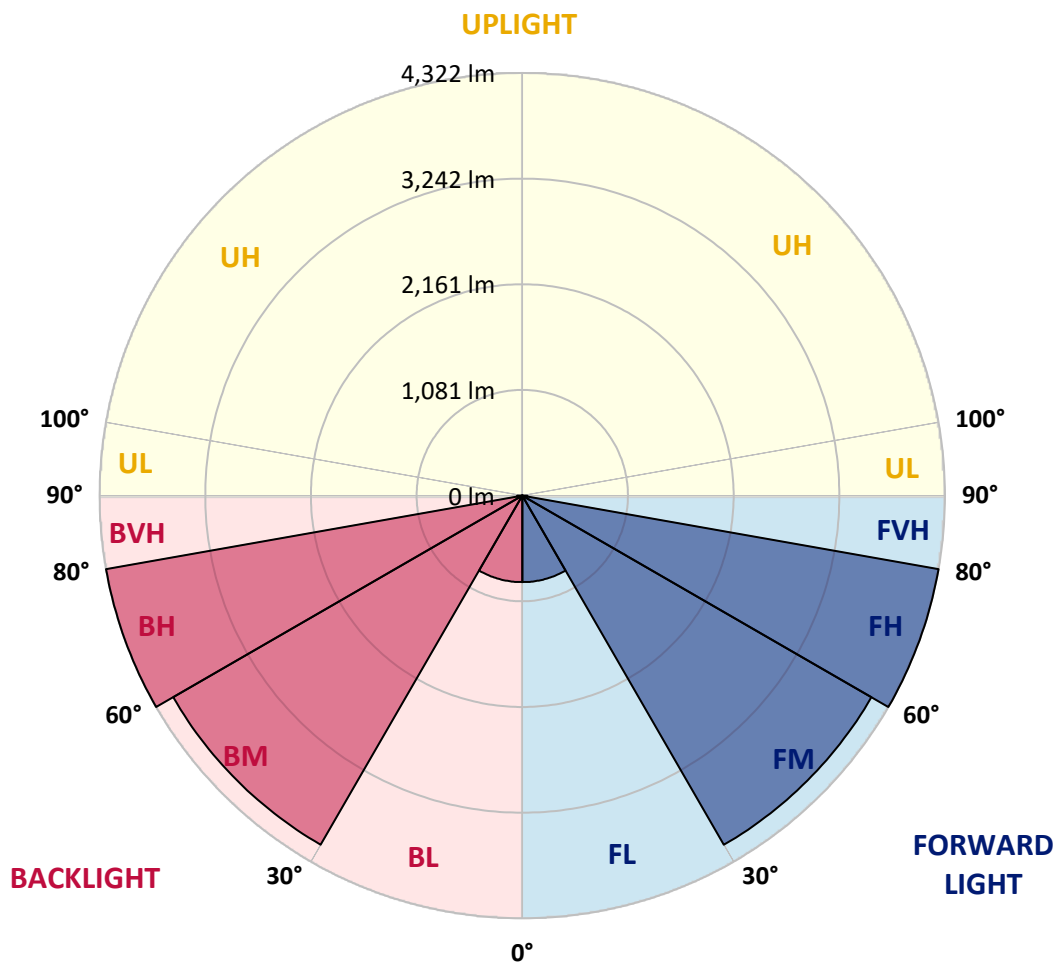
CATALOG NUMBER: GALN-SA4B-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	884.4	4.7			
FM	(30°-60°)	4121.6	22.0			
FH	(60°-80°)	4322.1	23.0			G2/5000
FVH	(80°-90°)	52.4	0.3			G1/100
BL	(0°-30°)	884.4	4.7	B2/1000		
BM	(30°-60°)	4121.6	22.0	B3/5000		
BH	(60°-80°)	4322.1	23.0	B4/5000		G2/5000
BVH	(80°-90°)	52.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P453380

CATALOG NUMBER: GALN-SA4B-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3
2.5°	2083.3	2085.3	2082.3	2080.4	2079.4	2079.4	2078.4	2079.4	2085.3	2086.3	2083.3
5°	2077.4	2079.4	2078.4	2076.4	2075.4	2075.4	2074.4	2073.4	2078.4	2080.4	2079.4
7.5°	2069.5	2070.5	2069.5	2068.5	2069.5	2068.5	2065.5	2063.5	2067.5	2067.5	2066.5
10°	2055.6	2057.6	2056.6	2057.6	2059.6	2059.6	2055.6	2051.7	2052.7	2050.7	2050.7
12.5°	2038.8	2041.8	2042.8	2046.7	2051.7	2057.6	2048.7	2039.8	2037.8	2036.8	2035.9
15°	2027.9	2030.9	2034.9	2038.8	2047.7	2060.6	2047.7	2033.9	2029.9	2026.0	2024.0
17.5°	2025.0	2028.9	2034.9	2040.8	2052.7	2065.5	2054.6	2040.8	2030.9	2025.0	2023.0
20°	2032.9	2035.9	2044.8	2055.6	2072.4	2085.3	2074.4	2059.6	2044.8	2035.9	2032.9
22.5°	2048.7	2053.7	2064.5	2084.3	2108.0	2126.8	2112.0	2087.3	2063.5	2051.7	2047.7
25°	2083.3	2087.3	2100.1	2126.8	2154.5	2172.3	2156.5	2127.8	2095.2	2079.4	2074.4
27.5°	2135.7	2141.7	2155.5	2187.1	2209.9	2219.8	2208.9	2189.1	2165.4	2148.6	2144.6
30°	2209.9	2216.8	2237.6	2271.2	2286.0	2291.9	2287.0	2274.2	2257.3	2239.5	2235.6
32.5°	2309.7	2313.7	2337.4	2369.1	2382.9	2384.9	2379.0	2373.0	2345.3	2315.7	2313.7
35°	2421.5	2428.4	2457.1	2494.6	2507.5	2508.5	2496.6	2487.7	2455.1	2431.4	2431.4
37.5°	2569.8	2572.8	2600.4	2643.0	2656.8	2652.8	2646.9	2639.0	2604.4	2573.7	2574.7
40°	2743.8	2749.7	2773.5	2822.9	2822.9	2818.0	2821.9	2816.0	2781.4	2751.7	2752.7
42.5°	2950.5	2953.4	2982.1	3034.5	3030.6	3020.7	3024.6	3016.7	2995.0	2961.3	2949.5
45°	3171.0	3182.8	3232.3	3282.7	3274.8	3243.1	3259.0	3257.0	3237.2	3186.8	3189.7
47.5°	3436.9	3456.7	3504.2	3564.5	3555.6	3506.1	3523.9	3535.8	3508.1	3452.8	3442.9
50°	3736.5	3749.4	3819.6	3875.9	3868.0	3815.6	3856.2	3858.1	3788.9	3710.8	3710.8
52.5°	4055.9	4068.8	4163.7	4251.7	4256.6	4180.5	4213.1	4211.1	4098.4	3995.6	3975.8
55°	4413.8	4419.8	4542.4	4671.9	4699.6	4625.4	4629.4	4589.8	4443.5	4323.9	4313.0
57.5°	4783.6	4805.4	4940.8	5108.9	5191.0	5145.5	5124.8	5019.0	4877.6	4740.1	4733.2
60°	5193.0	5194.0	5370.0	5568.7	5734.8	5765.5	5680.4	5539.0	5356.1	5174.2	5166.3
62.5°	5476.8	5519.3	5741.7	6077.9	6375.5	6547.6	6323.1	6026.5	5666.6	5372.9	5343.3
65°	5535.1	5563.8	5902.9	6472.4	7080.5	7451.3	6932.2	6301.4	5687.4	5295.8	5276.0
67.5°	5063.4	5094.1	5550.9	6425.0	7574.9	8335.3	7327.7	6168.9	5335.4	4850.9	4812.3
70°	3916.5	3951.1	4515.7	5655.7	7465.1	8613.1	7045.9	5380.8	4400.0	3876.9	3806.7
72.5°	2082.3	2209.9	2692.4	3881.9	6059.1	7415.7	5777.3	3926.4	2837.7	2319.6	2226.7
75°	760.4	776.2	1045.1	1721.4	3524.9	5085.2	3660.4	1872.7	1076.8	831.5	789.0
77.5°	314.4	313.4	344.1	520.1	1280.4	2604.4	1428.8	549.8	343.1	317.4	313.4
80°	185.9	185.9	204.7	216.5	337.2	786.1	376.7	245.2	205.7	187.9	190.8
82.5°	83.1	88.0	129.5	136.4	163.1	215.6	181.9	156.2	134.5	92.9	84.0
85°	45.5	39.6	68.2	71.2	78.1	80.1	86.0	85.0	78.1	45.5	46.5
87.5°	8.9	10.9	19.8	14.8	16.8	14.8	19.8	27.7	28.7	15.8	12.9
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)