

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: P652315

Luminaire Tested: **GALN-SA4B-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652315
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-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 19855.2 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

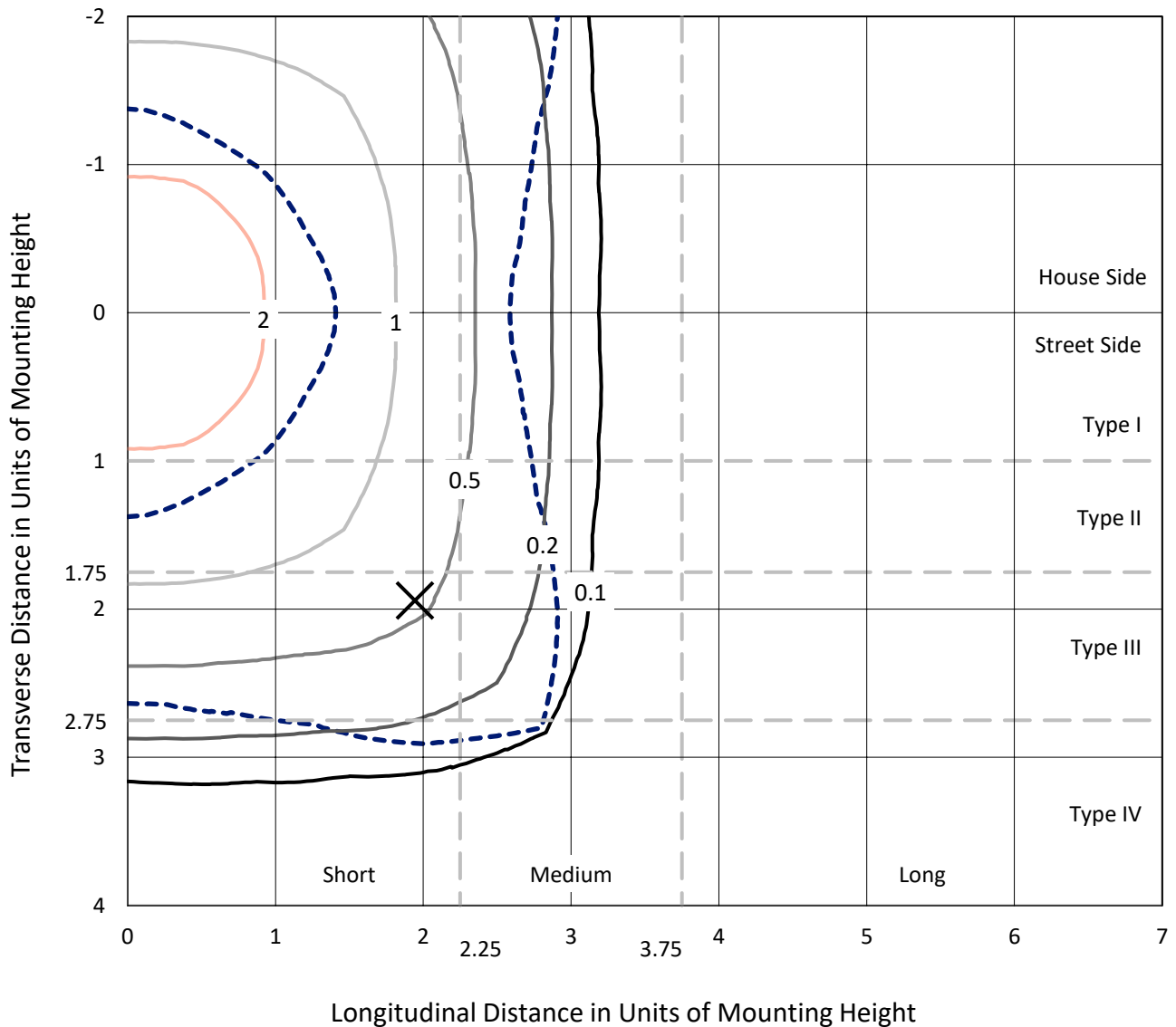
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652315
 CATALOG NUMBER: GALN-SA4B-840-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

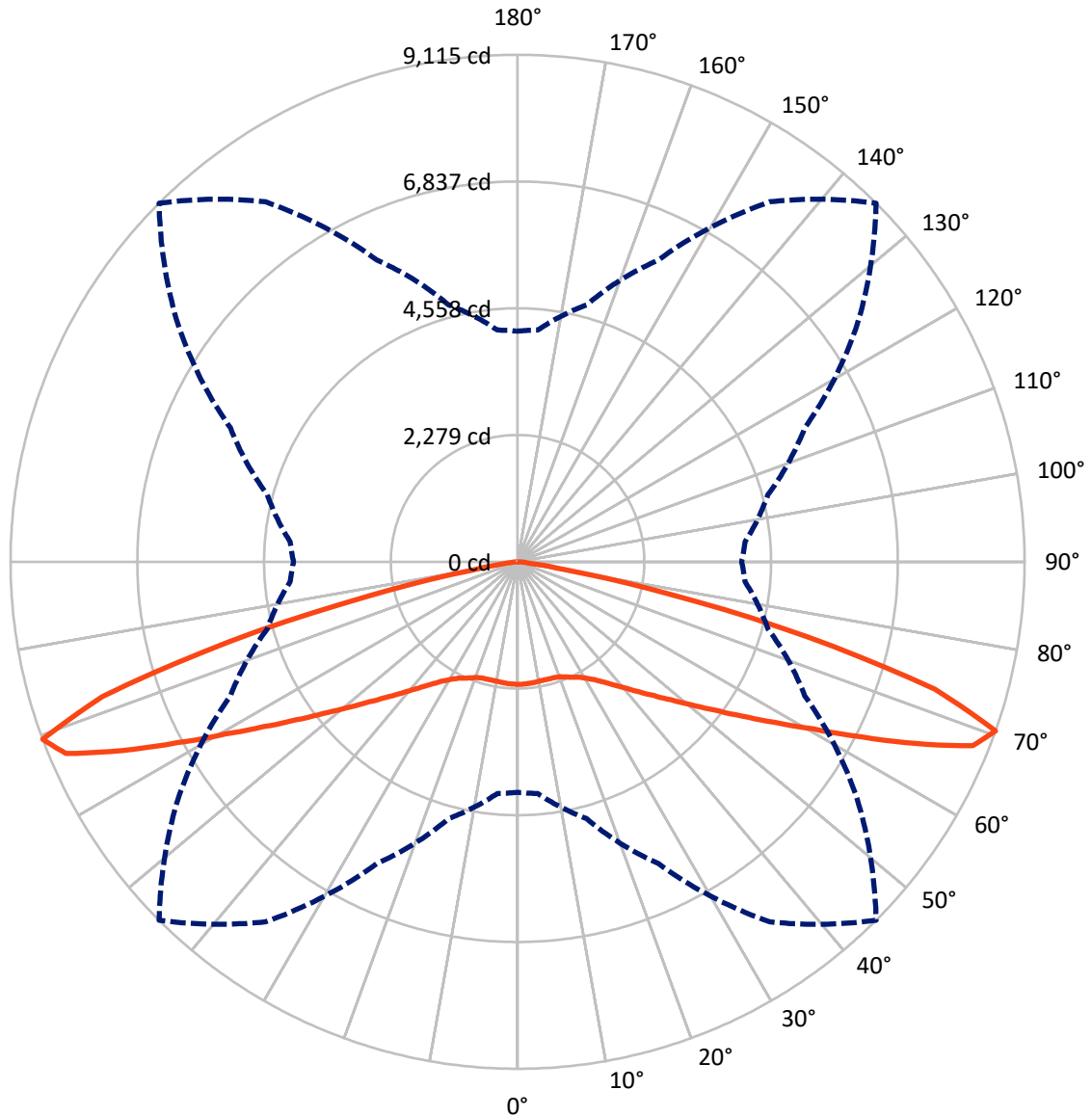
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

REPORT NUMBER: P652315
CATALOG NUMBER: GALN-SA4B-840-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652315
 CATALOG NUMBER: GALN-SA4B-840-U-5MQ

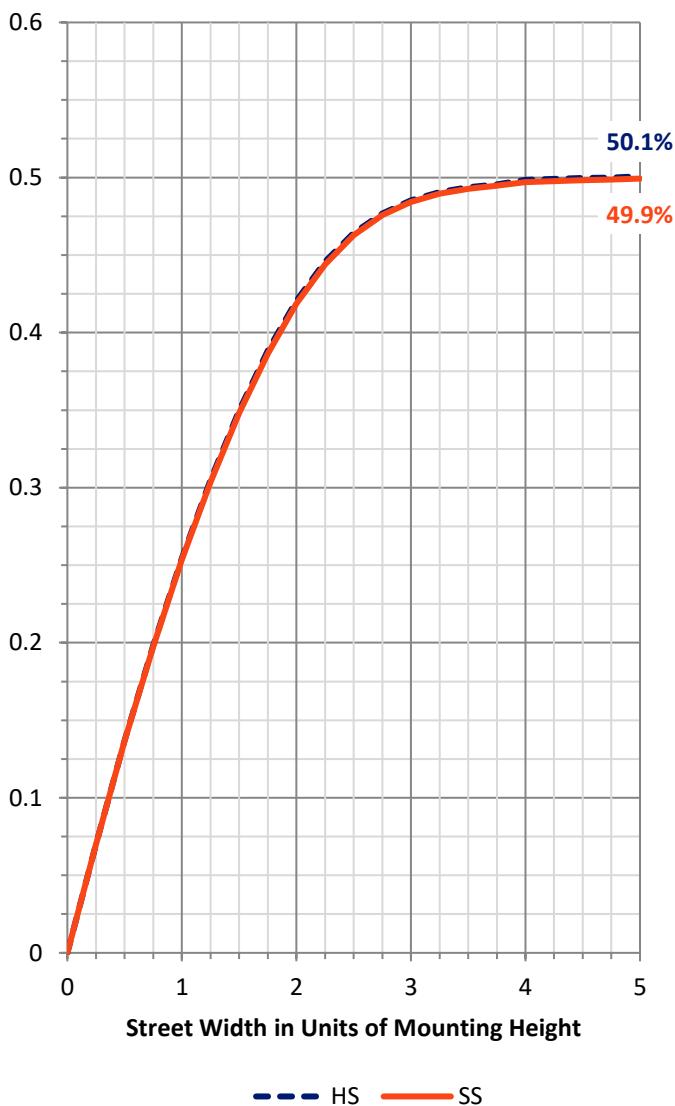
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9927.6	0.0	9927.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9927.6	0.0	9927.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19855.2	0.0	19855.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	1.1
10°-20°	613.5	3.1
20°-30°	1049.3	5.3
30°-40°	1665.5	8.4
40°-50°	2686.9	13.5
50°-60°	4371.6	22.0
60°-70°	6337.3	31.9
70°-80°	2811.0	14.2
80°-90°	110.9	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°	19855.2	100.0
0°-180°	19855.2	100.0

Coefficient of Utilization



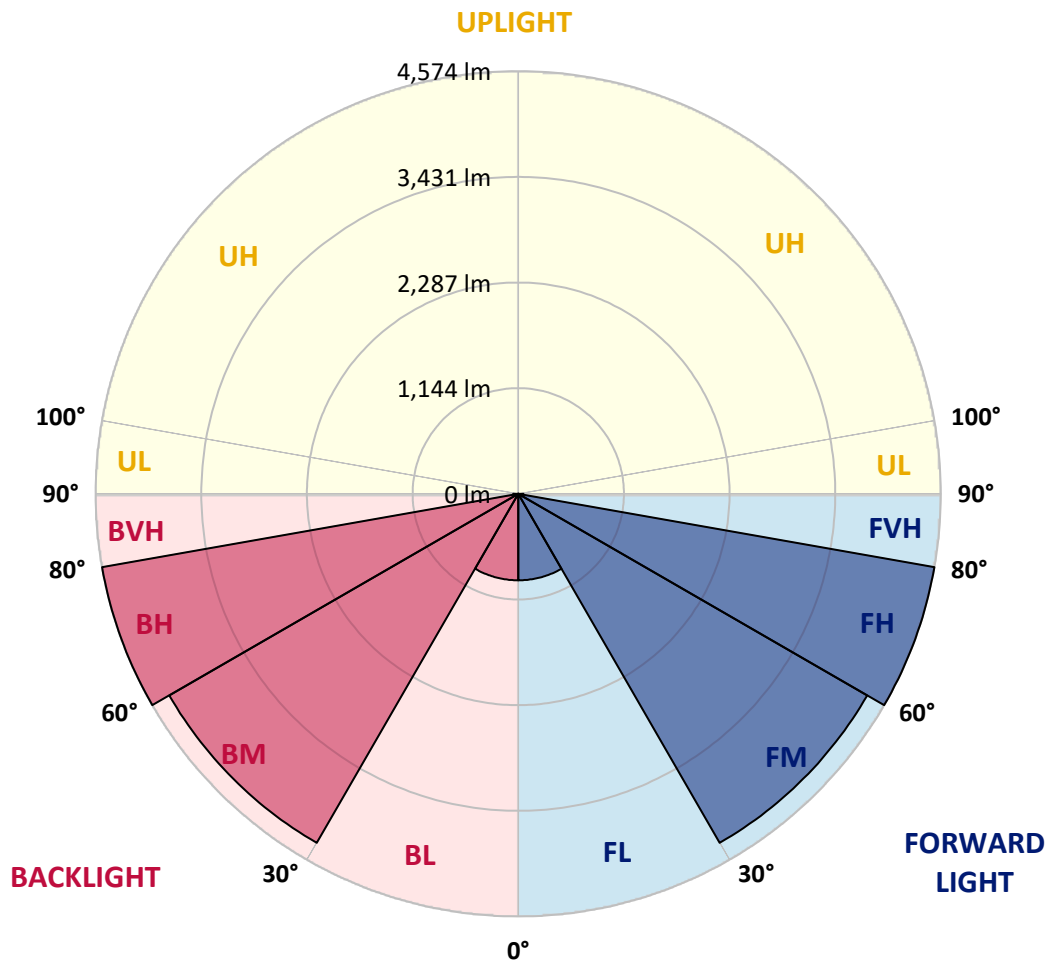
REPORT NUMBER: P652315
 CATALOG NUMBER: GALN-SA4B-840-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.0	4.7			
FM (30°-60°)	4362.0	22.0			
FH (60°-80°)	4574.2	23.0			G2/5000
FVH (80°-90°)	55.4	0.3			G1/100
BL (0°-30°)	936.0	4.7	B2/1000		
BM (30°-60°)	4362.0	22.0	B3/5000		
BH (60°-80°)	4574.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	55.4	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: P652315
 CATALOG NUMBER: GALN-SA4B-840-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2204.8	2204.8	2204.8	2204.8	2204.8	2204.8	2204.8	2204.8	2204.8	2204.8	2204.8
2.5°	2204.8	2207.0	2203.8	2201.7	2200.6	2200.6	2199.6	2200.6	2207.0	2208.0	2204.8
5°	2198.5	2200.6	2199.6	2197.5	2196.4	2196.4	2195.4	2194.3	2199.6	2201.7	2200.6
7.5°	2190.1	2191.2	2190.1	2189.1	2190.1	2189.1	2186.0	2183.9	2188.1	2188.1	2187.0
10°	2175.5	2177.6	2176.6	2177.6	2179.7	2179.7	2175.5	2171.4	2172.4	2170.3	2170.3
12.5°	2157.8	2160.9	2162.0	2166.1	2171.4	2177.6	2168.2	2158.8	2156.7	2155.7	2154.6
15°	2146.2	2149.3	2153.5	2157.8	2167.2	2180.8	2167.2	2152.5	2148.3	2144.1	2142.0
17.5°	2143.1	2147.2	2153.5	2159.9	2172.4	2186.0	2174.5	2159.9	2149.3	2143.1	2141.0
20°	2151.4	2154.6	2164.0	2175.5	2193.3	2207.0	2195.4	2179.7	2164.0	2154.6	2151.4
22.5°	2168.2	2173.4	2184.9	2205.9	2231.0	2250.9	2235.2	2209.0	2183.9	2171.4	2167.2
25°	2204.8	2209.0	2222.6	2250.9	2280.2	2299.0	2282.2	2251.9	2217.4	2200.6	2195.4
27.5°	2260.3	2266.6	2281.2	2314.7	2338.7	2349.2	2337.7	2316.8	2291.6	2273.9	2269.7
30°	2338.7	2346.1	2368.1	2403.7	2419.3	2425.6	2420.4	2406.8	2389.0	2370.2	2366.0
32.5°	2444.5	2448.7	2473.7	2507.3	2521.9	2524.0	2517.7	2511.4	2482.1	2450.8	2448.7
35°	2562.7	2570.0	2600.4	2640.2	2653.8	2654.8	2642.3	2632.8	2598.3	2573.1	2573.1
37.5°	2719.6	2722.8	2752.1	2797.1	2811.7	2807.6	2801.3	2792.9	2756.3	2723.8	2724.9
40°	2903.8	2910.1	2935.3	2987.6	2987.6	2982.4	2986.5	2980.3	2943.6	2912.2	2913.2
42.5°	3122.5	3125.7	3156.0	3211.5	3207.3	3196.8	3201.0	3192.7	3169.6	3134.1	3121.5
45°	3355.9	3368.5	3420.8	3474.2	3465.8	3432.3	3449.0	3446.9	3426.0	3372.7	3375.8
47.5°	3637.4	3658.4	3708.6	3772.4	3763.0	3710.7	3729.5	3742.0	3712.8	3654.1	3643.6
50°	3954.5	3968.1	4042.4	4102.0	4093.7	4038.1	4081.0	4083.1	4009.9	3927.2	3927.2
52.5°	4292.5	4306.1	4406.5	4499.6	4504.9	4424.3	4458.8	4456.7	4337.5	4228.6	4207.7
55°	4671.3	4677.6	4807.3	4944.4	4973.7	4895.2	4899.4	4857.5	4702.6	4576.0	4564.5
57.5°	5062.7	5085.6	5229.0	5406.9	5493.7	5445.6	5423.6	5311.7	5162.1	5016.6	5009.2
60°	5495.9	5496.9	5683.1	5893.5	6069.2	6101.7	6011.7	5862.1	5668.5	5475.9	5467.6
62.5°	5796.2	5841.2	6076.6	6432.4	6747.3	6929.4	6691.9	6378.0	5997.1	5686.3	5654.9
65°	5857.9	5888.3	6247.2	6849.9	7493.5	7885.9	7336.5	6668.9	6019.0	5604.7	5583.7
67.5°	5358.8	5391.2	5874.6	6799.7	8016.7	8821.4	7755.1	6528.7	5646.6	5133.8	5092.9
70°	4144.9	4181.5	4779.1	5985.6	7900.5	9115.4	7456.8	5694.7	4656.6	4103.1	4028.7
72.5°	2203.8	2338.7	2849.4	4108.3	6412.5	7848.2	6114.2	4155.4	3003.2	2454.9	2356.6
75°	804.7	821.4	1106.1	1821.9	3730.5	5381.8	3873.9	1981.9	1139.6	880.0	835.0
77.5°	332.8	331.7	364.2	550.4	1355.1	2756.3	1512.1	581.8	363.1	335.9	331.7
80°	196.7	196.7	216.6	229.2	356.8	831.9	398.7	259.5	217.7	198.8	201.9
82.5°	87.9	93.1	137.1	144.4	172.7	228.1	192.5	165.3	142.3	98.4	89.0
85°	48.1	41.9	72.2	75.4	82.7	84.8	91.1	90.0	82.7	48.1	49.2
87.5°	9.4	11.5	20.9	15.7	17.8	15.7	20.9	29.3	30.4	16.7	13.6
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)