

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: P647369

Luminaire Tested: **GALN-SA4D-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12499 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

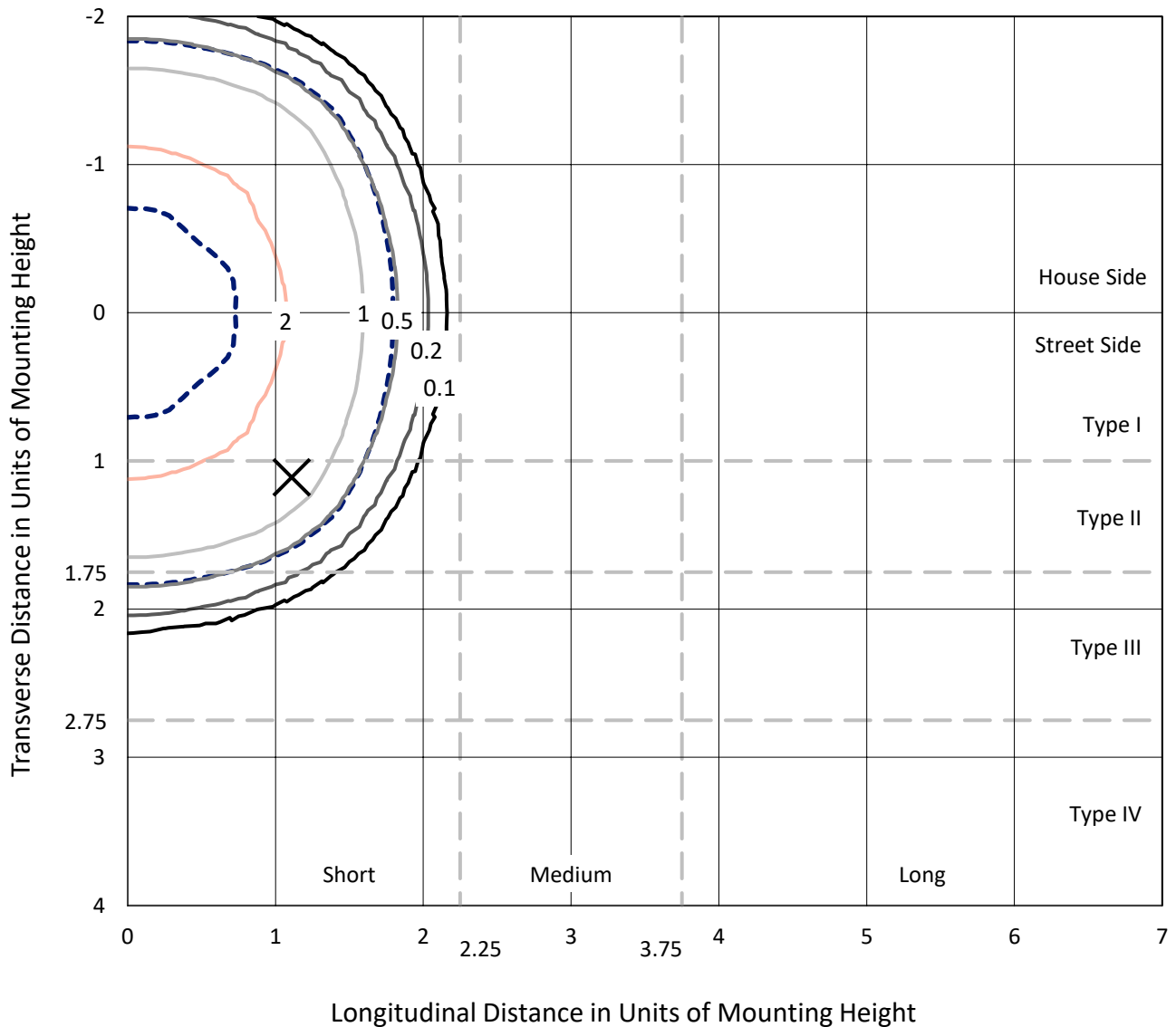
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647369
 CATALOG NUMBER: GALN-SA4D-835-U-5WQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

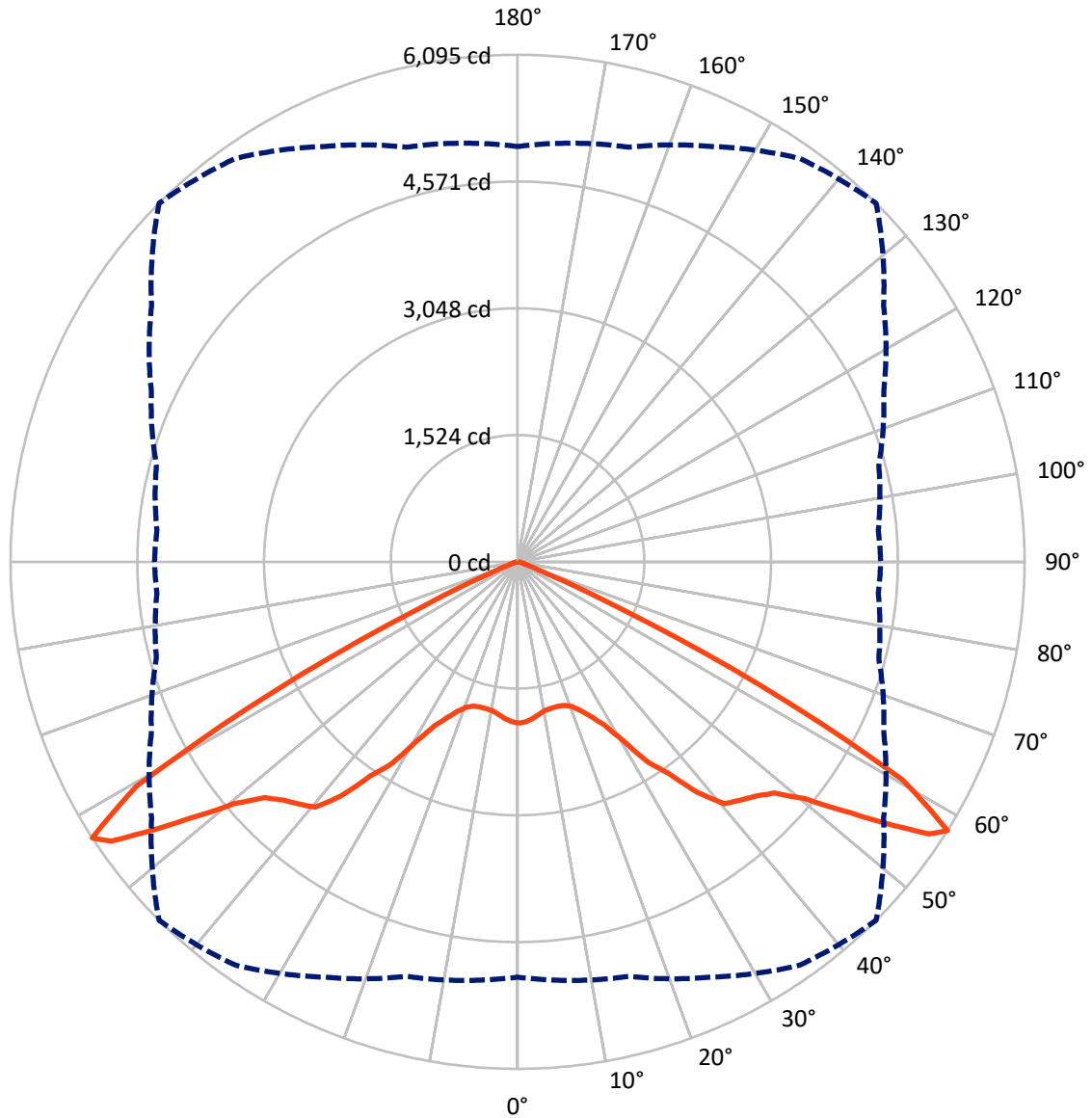
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P647369
CATALOG NUMBER: GALN-SA4D-835-U-5WQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P647369
 CATALOG NUMBER: GALN-SA4D-835-U-5WQ-GRSBK

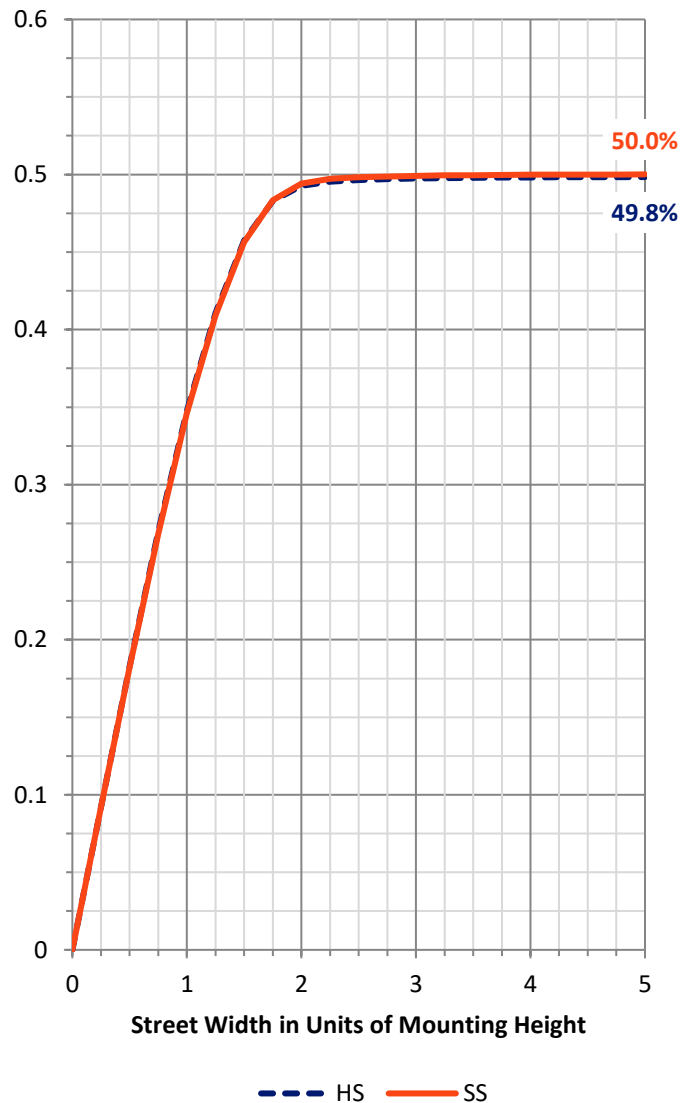
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6249.5	0.0	6249.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6249.5	0.0	6249.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12499.0	0.0	12499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	1.4
10°-20°	515.0	4.1
20°-30°	950.6	7.6
30°-40°	1869.4	15.0
40°-50°	3044.7	24.4
50°-60°	4342.1	34.7
60°-70°	1503.3	12.0
70°-80°	80.6	0.6
80°-90°	15.1	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°	12499.0	100.0
0°-180°	12499.0	100.0

Coefficient of Utilization

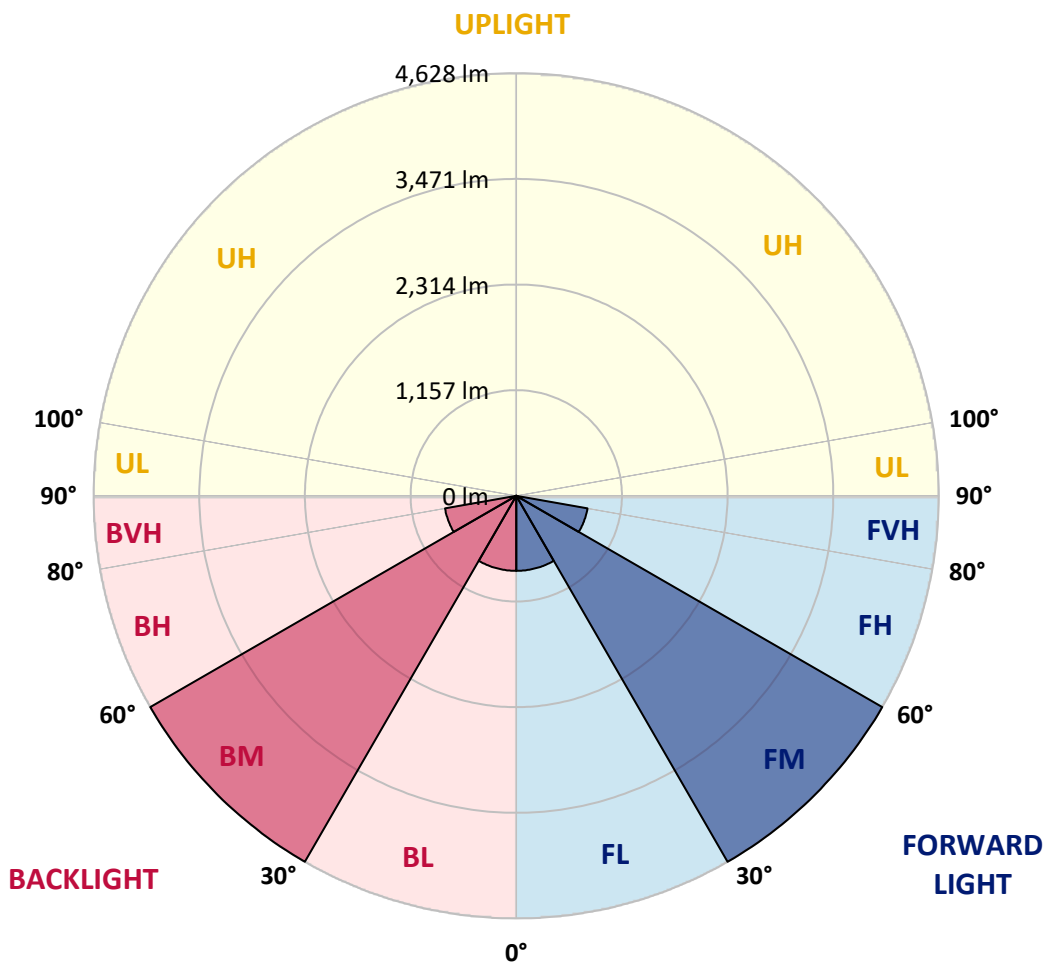


REPORT NUMBER: P647369
 CATALOG NUMBER: GALN-SA4D-835-U-5WQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.8	6.6			
FM (30°-60°)	4628.1	37.0			
FH (60°-80°)	792.0	6.3			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	821.8	6.6	B2/1000		
BM (30°-60°)	4628.1	37.0	B3/5000		
BH (60°-80°)	792.0	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type V Short





REPORT NUMBER: P647369

CATALOG NUMBER: GALN-SA4D-835-U-5WQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7
2.5°	1933.5	1944.0	1930.9	1925.7	1923.1	1923.1	1915.3	1915.3	1912.6	1915.3	1904.9
5°	1902.2	1912.6	1912.6	1910.1	1894.5	1891.8	1884.0	1878.8	1881.4	1871.0	1878.8
7.5°	1871.0	1878.8	1868.4	1865.7	1860.6	1850.2	1847.5	1824.1	1826.7	1826.7	1831.9
10°	1865.7	1863.1	1847.5	1834.5	1818.8	1816.2	1808.4	1803.2	1803.2	1800.6	1808.4
12.5°	1865.7	1852.7	1850.2	1821.5	1795.4	1805.8	1785.0	1771.9	1790.2	1795.4	1805.8
15°	1863.1	1876.2	1831.9	1818.8	1800.6	1803.2	1785.0	1771.9	1782.3	1787.6	1795.4
17.5°	1878.8	1871.0	1858.0	1831.9	1824.1	1813.7	1790.2	1779.8	1779.8	1792.8	1795.4
20°	1920.5	1899.6	1873.6	1860.6	1868.4	1855.3	1826.7	1787.6	1798.0	1808.4	1816.2
22.5°	1959.6	1944.0	1925.7	1917.9	1962.2	1941.4	1891.8	1847.5	1831.9	1850.2	1863.1
25°	2035.2	2035.2	2001.3	2011.7	2061.2	2063.8	2006.5	1928.3	1917.9	1925.7	1930.9
27.5°	2188.9	2196.7	2168.0	2178.5	2199.3	2217.5	2168.0	2102.9	2079.4	2076.8	2084.7
30°	2355.7	2371.3	2368.7	2413.0	2472.9	2483.4	2410.4	2303.5	2233.2	2220.2	2230.6
32.5°	2574.6	2582.3	2577.2	2629.2	2790.8	2866.4	2676.2	2525.0	2431.2	2454.7	2431.2
35°	2986.3	2978.5	2921.1	2931.6	3064.4	3119.2	2936.8	2840.3	2796.0	2842.9	2832.5
37.5°	3340.7	3312.0	3265.1	3332.8	3471.0	3520.4	3330.3	3160.9	3080.1	3158.2	3192.1
40°	3640.3	3567.3	3502.2	3570.0	3755.0	3822.8	3543.9	3405.8	3374.6	3431.9	3504.9
42.5°	3893.1	3846.2	3760.2	3765.4	3887.9	3919.1	3695.1	3614.2	3583.0	3674.2	3710.7
45°	4072.9	4028.6	3947.8	3942.6	4036.4	4015.5	3814.9	3760.2	3778.4	3838.3	3856.6
47.5°	4164.1	4187.6	4140.7	4153.7	4203.2	4153.7	3994.7	3994.7	3953.1	3989.5	3971.3
50°	4427.3	4354.3	4414.2	4414.2	4466.4	4471.6	4312.6	4255.3	4143.2	4080.7	4080.7
52.5°	4734.8	4740.0	4763.5	4849.4	4938.1	5013.6	4786.9	4541.9	4354.3	4273.5	4263.1
55°	4987.6	5039.6	5133.5	5295.0	5550.4	5654.6	5263.8	4825.9	4596.7	4471.6	4445.6
56°	5125.7	5076.1	5237.7	5459.2	5792.7	5928.2	5341.9	4883.3	4630.5	4489.8	4487.2
57.5°	4992.7	5047.5	5159.5	5508.7	5917.8	6095.0	5370.6	4857.3	4495.0	4351.8	4364.8
60°	3942.6	3994.7	4145.8	4536.7	5177.7	5315.9	4544.5	4005.1	3682.1	3476.1	3478.8
62.5°	2230.6	2269.7	2386.9	2749.1	3147.8	3280.7	2832.5	2472.9	2248.9	2134.1	2097.7
65°	820.8	805.2	823.4	1008.4	1253.4	1365.5	1177.9	995.4	878.1	836.5	820.8
67.5°	307.5	284.1	265.8	284.1	357.0	377.9	346.6	289.2	271.0	278.8	284.1
70°	190.2	179.8	143.3	135.5	132.9	130.3	138.1	146.0	166.8	195.4	200.7
72.5°	132.9	125.0	101.6	96.4	91.2	88.6	101.6	112.0	130.3	151.1	153.8
75°	52.1	54.7	52.1	57.3	59.9	62.6	73.0	80.8	88.6	88.6	86.0
77.5°	10.4	10.4	15.7	20.8	26.1	33.9	49.5	57.3	59.9	57.3	49.5
80°	0.0	0.0	5.2	10.4	20.8	28.7	44.3	49.5	54.7	49.5	39.1
82.5°	0.0	0.0	5.2	13.0	20.8	26.1	41.7	52.1	59.9	54.7	41.7
85°	0.0	0.0	5.2	10.4	15.7	18.2	18.2	13.0	13.0	7.8	5.2
87.5°	0.0	0.0	0.0	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)