

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: P651329

Luminaire Tested: **GALN-SA4D-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651329
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-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 13424.9 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

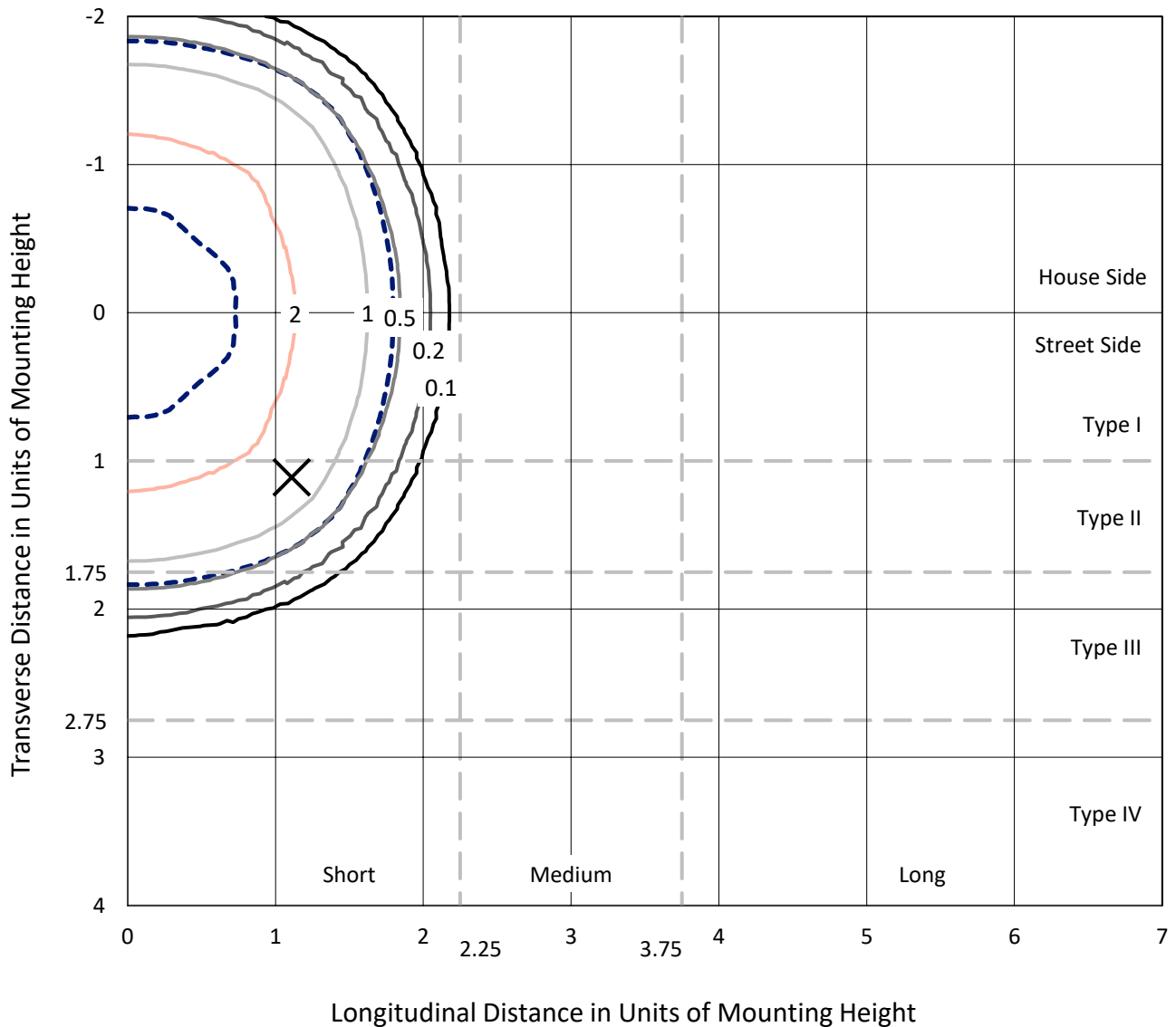
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

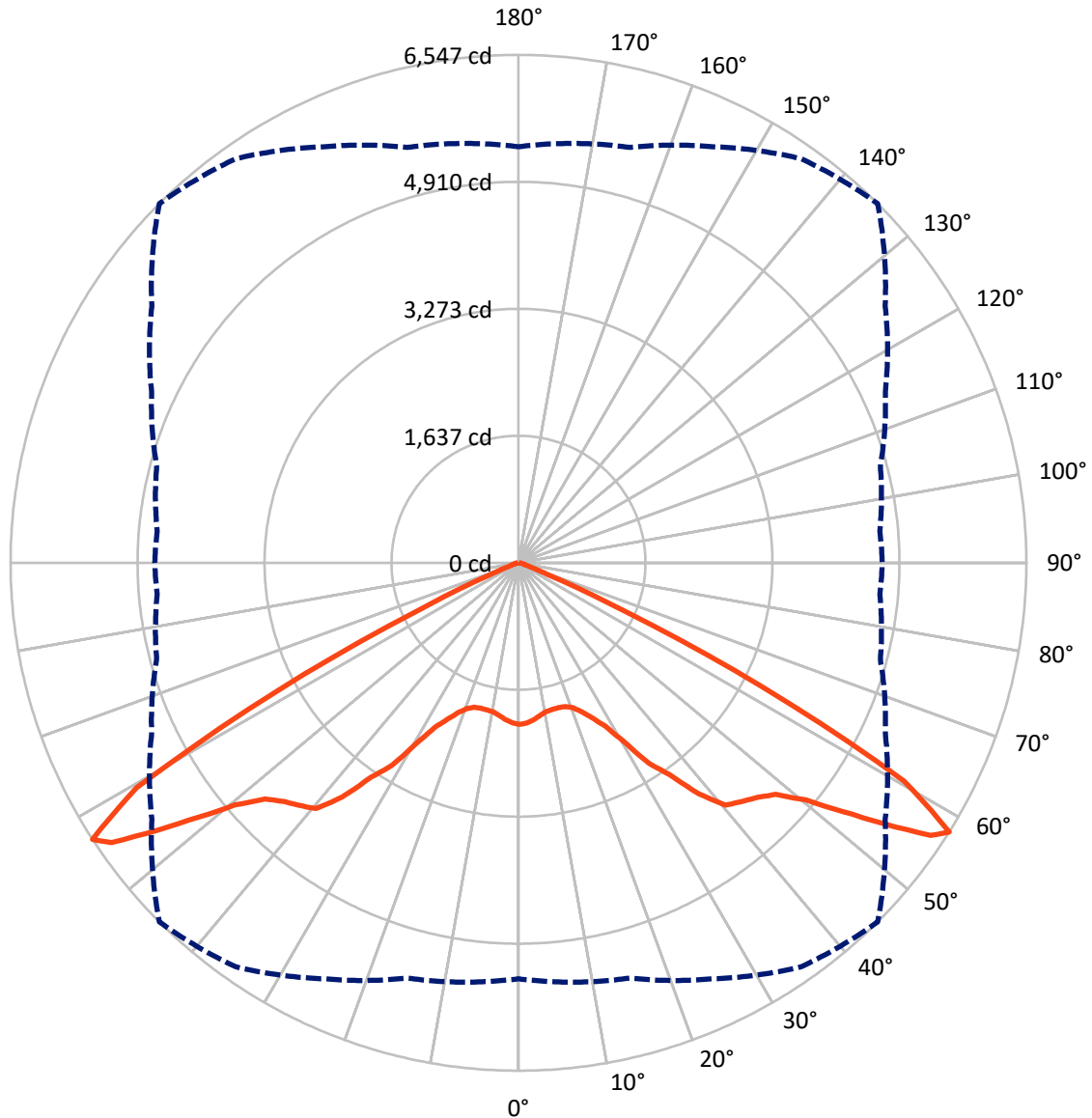
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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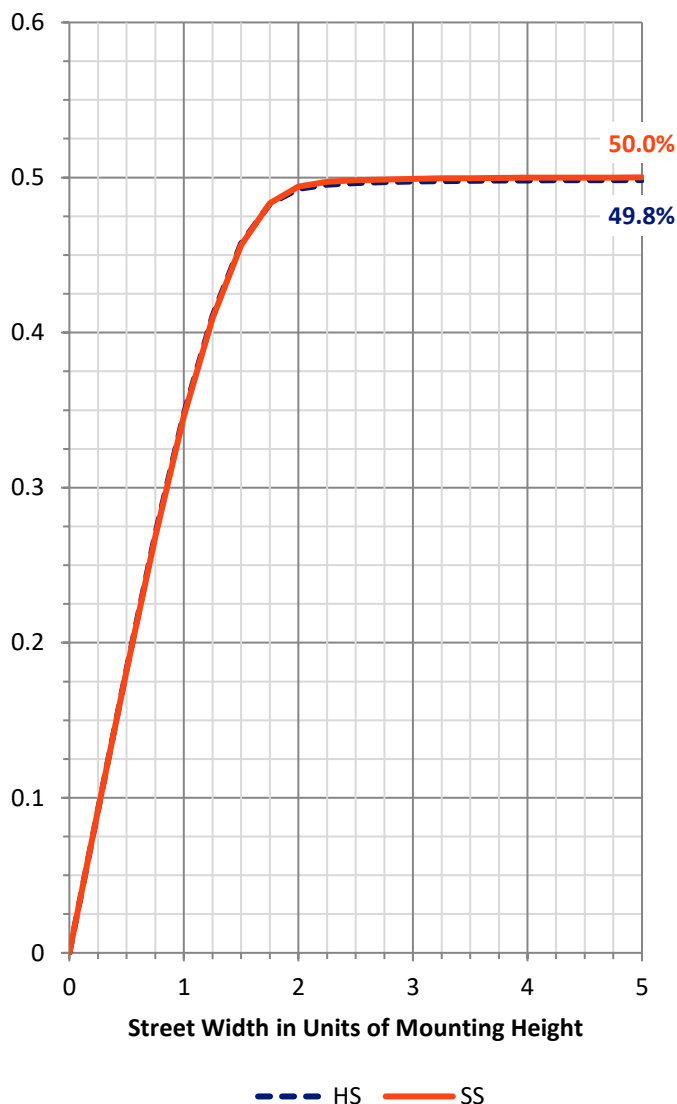
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6712.4	0.0	6712.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6712.4	0.0	6712.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	13424.9	0.0	13424.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	1.4
10°-20°	553.1	4.1
20°-30°	1021.0	7.6
30°-40°	2007.8	15.0
40°-50°	3270.2	24.4
50°-60°	4663.8	34.7
60°-70°	1614.7	12.0
70°-80°	86.6	0.6
80°-90°	16.3	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°	13424.9	100.0
0°-180°	13424.9	100.0

Coefficient of Utilization

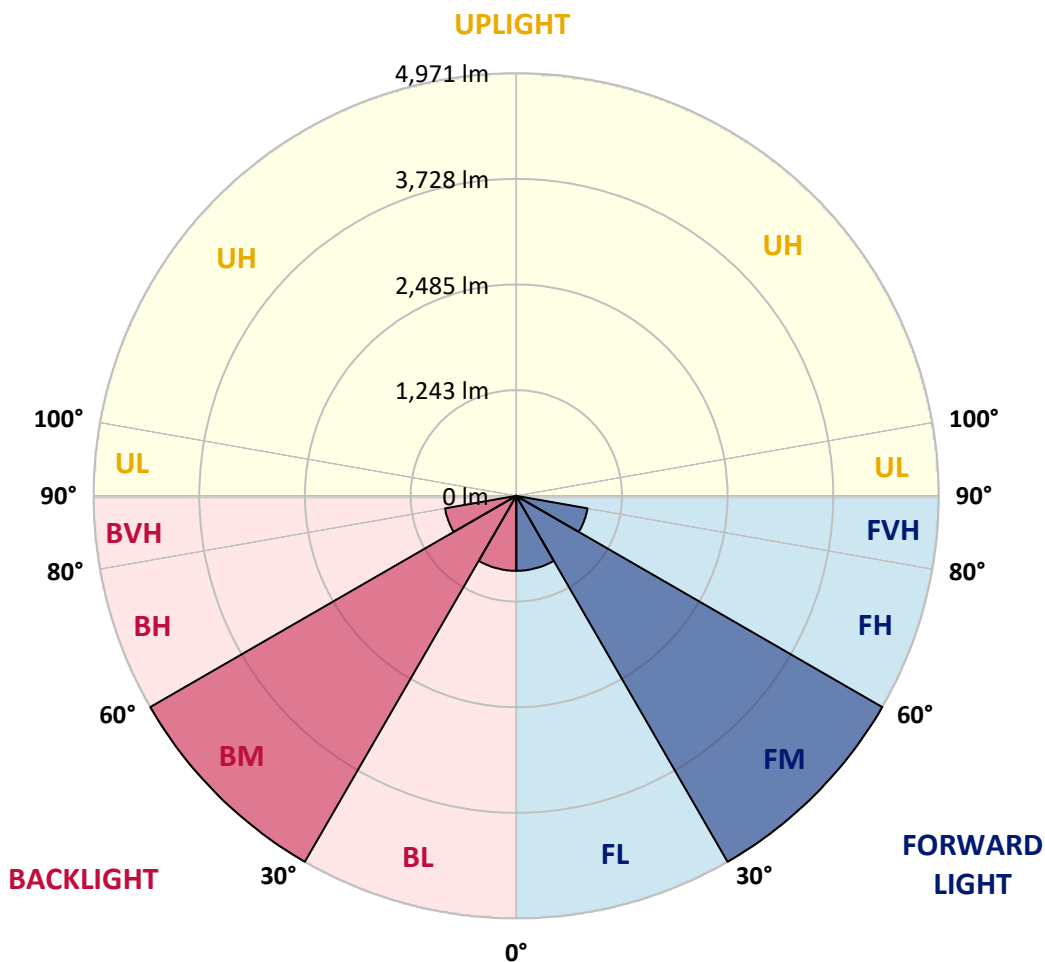


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.7	6.6			
FM (30°-60°)	4970.9	37.0			
FH (60°-80°)	850.7	6.3			G1/1800
FVH (80°-90°)	8.1	0.1			G0/10
BL (0°-30°)	882.7	6.6	B2/1000		
BM (30°-60°)	4970.9	37.0	B3/5000		
BH (60°-80°)	850.7	6.3	B2/1000		G1/1800
BVH (80°-90°)	8.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2.5°	2076.8	2088.0	2073.9	2068.4	2065.6	2065.6	2057.2	2057.2	2054.3	2057.2	2046.0
5°	2043.1	2054.3	2054.3	2051.5	2034.8	2031.9	2023.5	2018.0	2020.8	2009.6	2018.0
7.5°	2009.6	2018.0	2006.8	2003.9	1998.4	1987.2	1984.3	1959.2	1962.0	1962.0	1967.6
10°	2003.9	2001.2	1984.3	1970.4	1953.6	1950.8	1942.4	1936.8	1936.8	1934.0	1942.4
12.5°	2003.9	1990.0	1987.2	1956.4	1928.4	1939.6	1917.2	1903.2	1922.8	1928.4	1939.6
15°	2001.2	2015.2	1967.6	1953.6	1934.0	1936.8	1917.2	1903.2	1914.4	1920.0	1928.4
17.5°	2018.0	2009.6	1995.6	1967.6	1959.2	1948.0	1922.8	1911.6	1911.6	1925.6	1928.4
20°	2062.7	2040.4	2012.3	1998.4	2006.8	1992.7	1962.0	1920.0	1931.2	1942.4	1950.8
22.5°	2104.8	2088.0	2068.4	2059.9	2107.5	2085.2	2031.9	1984.3	1967.6	1987.2	2001.2
25°	2185.9	2185.9	2149.5	2160.7	2213.8	2216.7	2155.1	2071.1	2059.9	2068.4	2073.9
27.5°	2351.0	2359.4	2328.6	2339.8	2362.2	2381.8	2328.6	2258.7	2233.4	2230.7	2239.1
30°	2530.1	2547.0	2544.1	2591.7	2656.1	2667.3	2588.9	2474.1	2398.6	2384.7	2395.8
32.5°	2765.3	2773.6	2768.1	2824.0	2997.6	3078.7	2874.5	2712.1	2611.3	2636.5	2611.3
35°	3207.5	3199.1	3137.5	3148.7	3291.4	3350.2	3154.3	3050.7	3003.1	3053.5	3042.3
37.5°	3588.1	3557.3	3507.0	3579.7	3728.1	3781.2	3576.9	3395.0	3308.2	3392.2	3428.6
40°	3910.0	3831.6	3761.6	3834.5	4033.1	4105.9	3806.5	3658.1	3624.5	3686.1	3764.5
42.5°	4181.5	4131.1	4038.7	4044.4	4175.9	4209.5	3968.8	3882.0	3848.4	3946.4	3985.6
45°	4374.6	4327.0	4240.2	4234.7	4335.4	4313.0	4097.5	4038.7	4058.3	4122.7	4142.3
47.5°	4472.5	4497.8	4447.4	4461.3	4514.6	4461.3	4290.6	4290.6	4245.9	4285.1	4265.5
50°	4755.3	4676.9	4741.2	4741.2	4797.2	4802.8	4632.1	4570.5	4450.2	4383.0	4383.0
52.5°	5085.5	5091.1	5116.3	5208.6	5303.9	5385.0	5141.5	4878.4	4676.9	4590.1	4578.9
55°	5357.0	5412.9	5513.8	5687.3	5961.5	6073.4	5653.7	5183.4	4937.2	4802.8	4774.9
56°	5505.4	5452.1	5625.7	5863.6	6221.8	6367.4	5737.6	5245.1	4973.5	4822.4	4819.6
57.5°	5362.6	5421.3	5541.7	5916.8	6356.2	6546.5	5768.4	5217.1	4828.0	4674.1	4688.1
60°	4234.7	4290.6	4452.9	4872.8	5561.3	5709.6	4881.2	4301.8	3954.8	3733.6	3736.5
62.5°	2395.8	2437.8	2563.7	2952.8	3381.0	3523.7	3042.3	2656.1	2415.4	2292.2	2253.0
65°	881.6	864.9	884.4	1083.1	1346.3	1466.6	1265.1	1069.2	943.2	898.4	881.6
67.5°	330.3	305.1	285.5	305.1	383.4	405.9	372.2	310.7	291.1	299.5	305.1
70°	204.3	193.1	153.9	145.6	142.7	139.9	148.4	156.8	179.1	209.9	215.5
72.5°	142.7	134.3	109.2	103.5	98.0	95.2	109.2	120.3	139.9	162.3	165.2
75°	56.0	58.8	56.0	61.6	64.3	67.2	78.4	86.8	95.2	95.2	92.3
77.5°	11.2	11.2	16.8	22.4	28.0	36.4	53.2	61.6	64.3	61.6	53.2
80°	0.0	0.0	5.6	11.2	22.4	30.8	47.6	53.2	58.8	53.2	42.0
82.5°	0.0	0.0	5.6	14.0	22.4	28.0	44.7	56.0	64.3	58.8	44.7
85°	0.0	0.0	5.6	11.2	16.8	19.6	19.6	14.0	14.0	8.4	5.6
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)