

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: P529343

Luminaire Tested: **GALN-SA4C-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529343
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-SA4C-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 13212 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

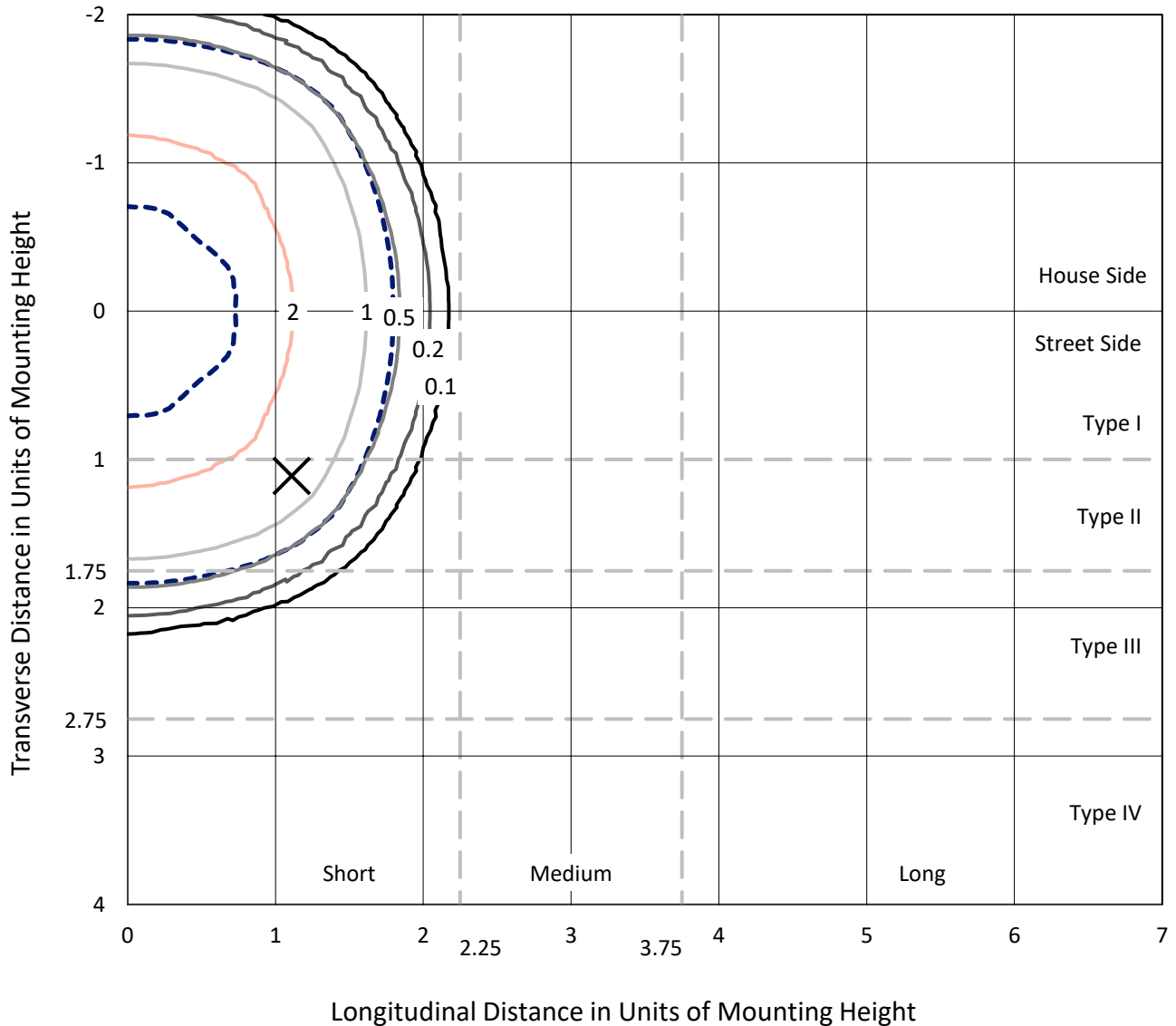
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

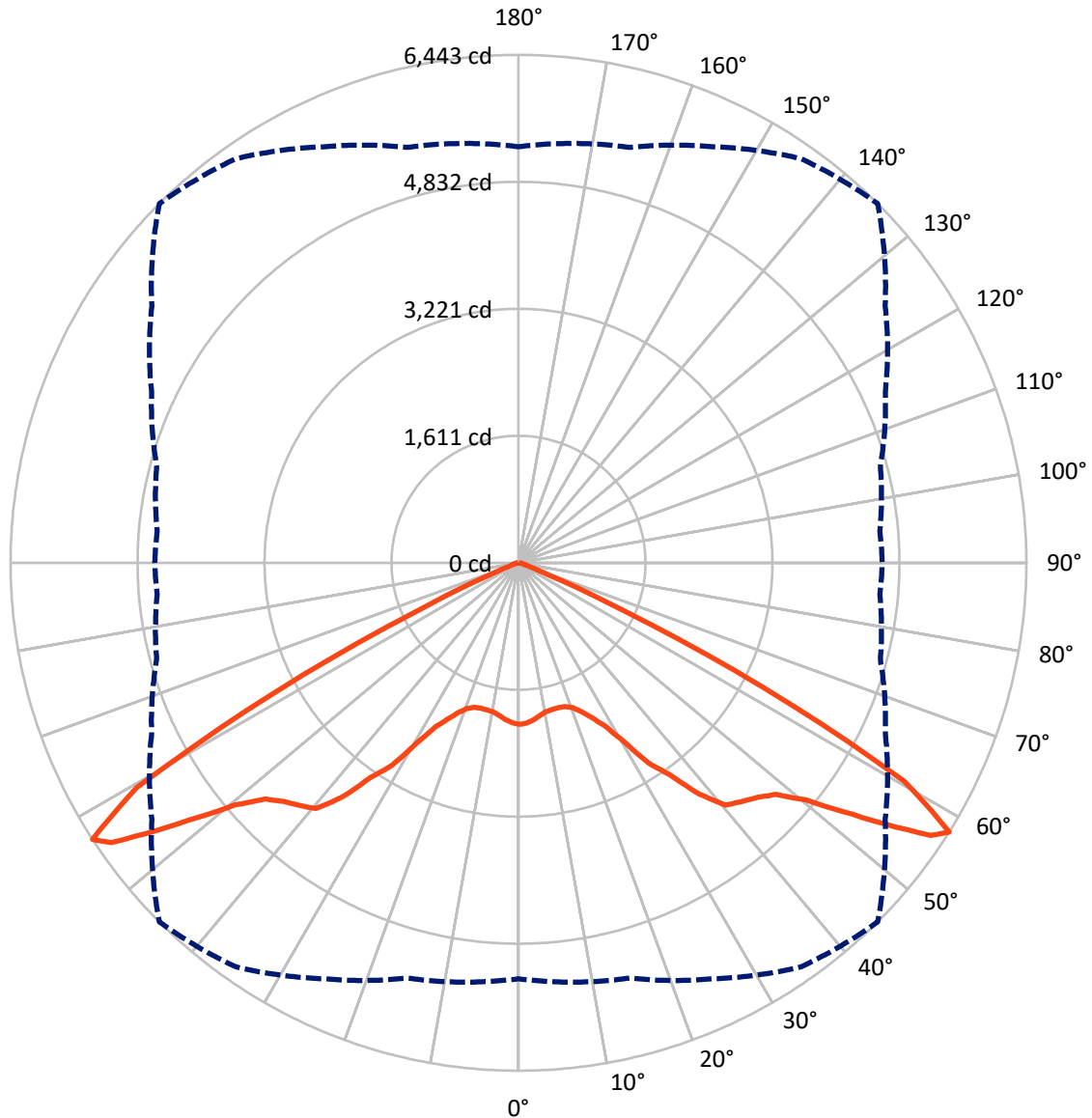
✕ Max cd
 - - - 1/2 Max cd



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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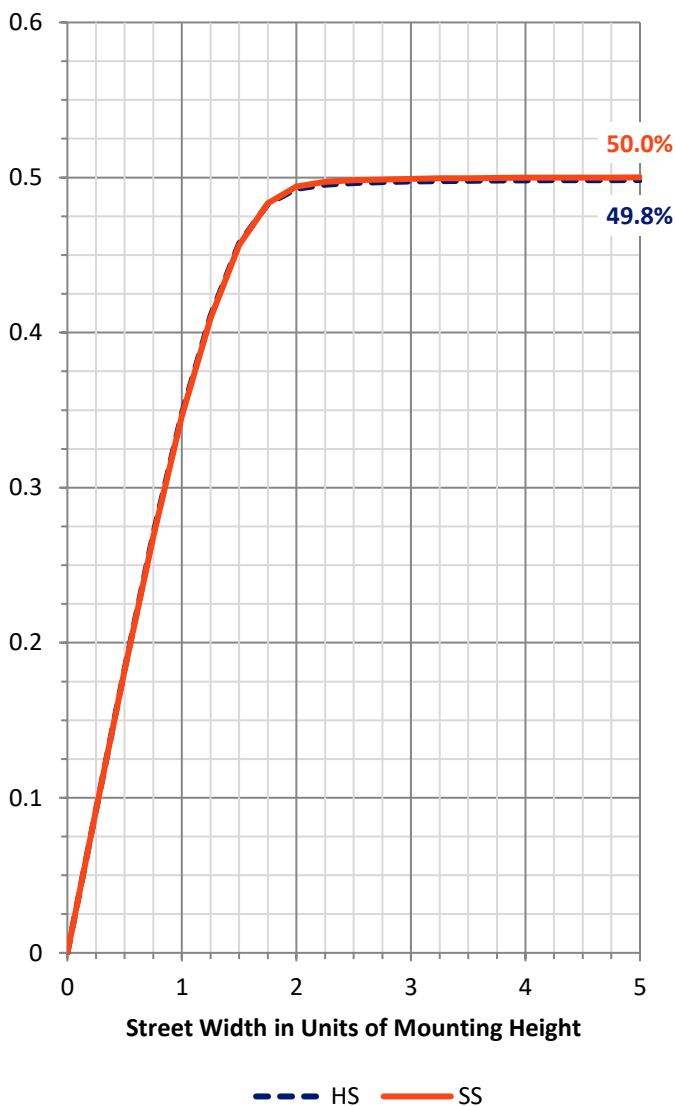
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6606.0	0.0	6606.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6606.0	0.0	6606.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13212.0	0.0	13212.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	1.4
10°-20°	544.3	4.1
20°-30°	1004.8	7.6
30°-40°	1976.0	15.0
40°-50°	3218.4	24.4
50°-60°	4589.8	34.7
60°-70°	1589.1	12.0
70°-80°	85.2	0.6
80°-90°	16.0	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°	13212.0	100.0
0°-180°	13212.0	100.0



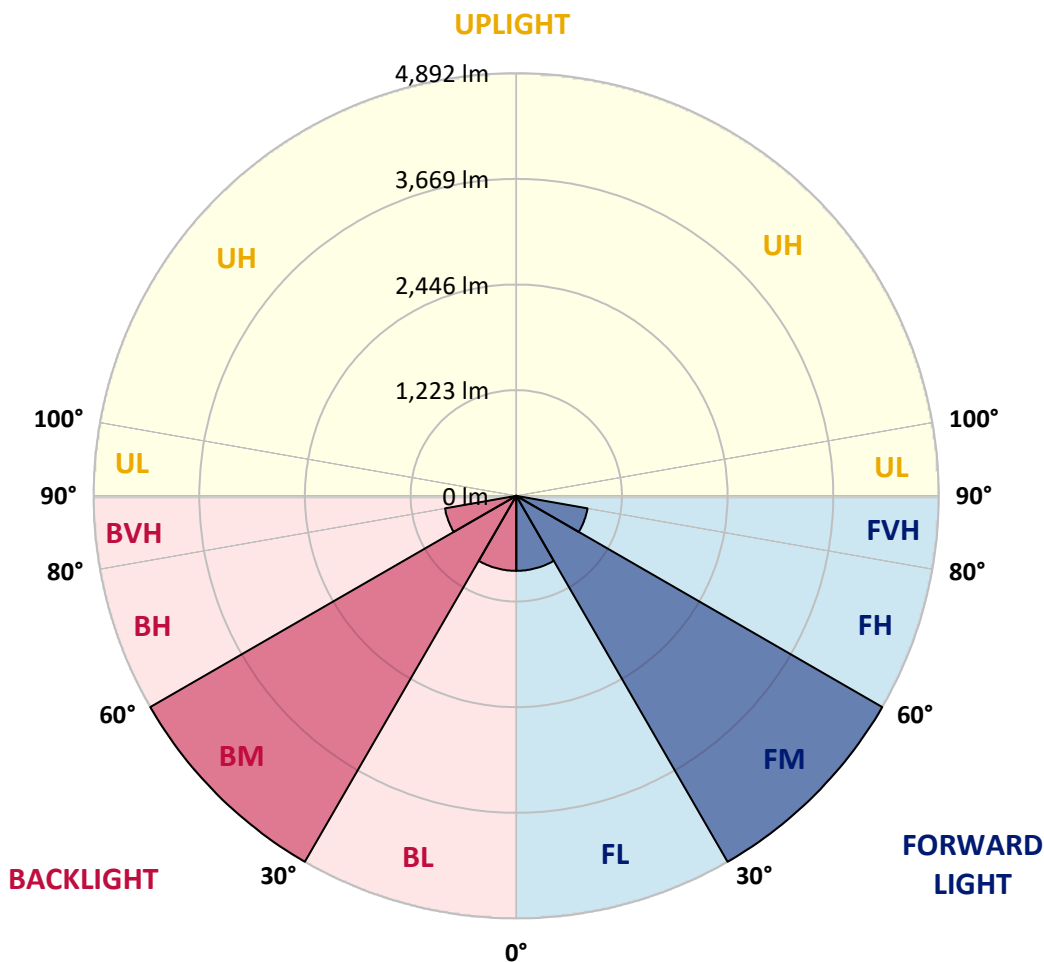
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.7	6.6			
FM (30°-60°)	4892.1	37.0			
FH (60°-80°)	837.2	6.3			G1/1800
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	868.7	6.6	B2/1000		
BM (30°-60°)	4892.1	37.0	B3/5000		
BH (60°-80°)	837.2	6.3	B2/1000		G1/1800
BVH (80°-90°)	8.0	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°	2049.3	2049.3	2049.3	2049.3	2049.3	2049.3	2049.3	2049.3	2049.3	2049.3	2049.3
2.5°	2043.8	2054.8	2041.1	2035.5	2032.8	2032.8	2024.5	2024.5	2021.8	2024.5	2013.5
5°	2010.8	2021.8	2021.8	2019.0	2002.5	1999.7	1991.5	1986.0	1988.7	1977.7	1986.0
7.5°	1977.7	1986.0	1974.9	1972.2	1966.7	1955.7	1952.9	1928.1	1930.9	1930.9	1936.4
10°	1972.2	1969.4	1952.9	1939.1	1922.6	1919.9	1911.6	1906.1	1906.1	1903.3	1911.6
12.5°	1972.2	1958.4	1955.7	1925.4	1897.8	1908.8	1886.8	1873.0	1892.3	1897.8	1908.8
15°	1969.4	1983.2	1936.4	1922.6	1903.3	1906.1	1886.8	1873.0	1884.1	1889.6	1897.8
17.5°	1986.0	1977.7	1963.9	1936.4	1928.1	1917.1	1892.3	1881.3	1881.3	1895.1	1897.8
20°	2030.0	2008.0	1980.5	1966.7	1974.9	1961.2	1930.9	1889.6	1900.6	1911.6	1919.9
22.5°	2071.4	2054.8	2035.5	2027.3	2074.1	2052.1	1999.7	1952.9	1936.4	1955.7	1969.4
25°	2151.2	2151.2	2115.4	2126.4	2178.8	2181.5	2120.9	2038.3	2027.3	2035.5	2041.1
27.5°	2313.7	2322.0	2291.7	2302.7	2324.8	2344.0	2291.7	2222.9	2198.1	2195.3	2203.6
30°	2490.0	2506.6	2503.8	2550.6	2614.0	2625.0	2547.9	2434.9	2360.6	2346.8	2357.8
32.5°	2721.4	2729.7	2724.2	2779.3	2950.0	3029.9	2828.8	2669.1	2569.9	2594.7	2569.9
35°	3156.6	3148.3	3087.8	3098.8	3239.2	3297.1	3104.3	3002.4	2955.5	3005.1	2994.1
37.5°	3531.2	3500.9	3451.3	3523.0	3668.9	3721.3	3520.2	3341.2	3255.8	3338.4	3374.2
40°	3848.0	3770.9	3702.0	3773.6	3969.2	4040.8	3746.1	3600.1	3567.0	3627.6	3704.8
42.5°	4115.2	4065.6	3974.7	3980.2	4109.7	4142.7	3905.8	3820.4	3787.4	3883.8	3922.4
45°	4305.2	4258.4	4173.0	4167.5	4266.7	4244.6	4032.5	3974.7	3994.0	4057.3	4076.6
47.5°	4401.6	4426.4	4376.8	4390.6	4442.9	4390.6	4222.6	4222.6	4178.5	4217.1	4197.8
50°	4679.8	4602.7	4666.1	4666.1	4721.1	4726.7	4558.6	4498.0	4379.6	4313.5	4313.5
52.5°	5004.9	5010.4	5035.2	5126.1	5219.7	5299.6	5059.9	4801.0	4602.7	4517.3	4506.3
55°	5272.0	5327.1	5426.3	5597.1	5867.0	5977.2	5564.0	5101.3	4858.9	4726.7	4699.1
56°	5418.0	5365.7	5536.5	5770.6	6123.2	6266.4	5646.6	5161.9	4894.7	4745.9	4743.2
57.5°	5277.5	5335.4	5453.8	5822.9	6255.4	6442.7	5676.9	5134.3	4751.4	4600.0	4613.7
60°	4167.5	4222.6	4382.3	4795.5	5473.1	5619.1	4803.8	4233.6	3892.1	3674.5	3677.2
62.5°	2357.8	2399.1	2523.1	2906.0	3327.4	3467.9	2994.1	2614.0	2377.1	2255.9	2217.3
65°	867.7	851.1	870.4	1066.0	1324.9	1443.3	1245.0	1052.2	928.3	884.2	867.7
67.5°	325.0	300.2	281.0	300.2	377.4	399.4	366.3	305.7	286.5	294.7	300.2
70°	201.1	190.1	151.5	143.2	140.5	137.7	146.0	154.2	176.3	206.6	212.1
72.5°	140.5	132.2	107.4	101.9	96.4	93.7	107.4	118.4	137.7	159.8	162.5
75°	55.1	57.8	55.1	60.6	63.4	66.1	77.1	85.4	93.7	93.7	90.9
77.5°	11.0	11.0	16.5	22.0	27.5	35.8	52.3	60.6	63.4	60.6	52.3
80°	0.0	0.0	5.5	11.0	22.0	30.3	46.8	52.3	57.8	52.3	41.3
82.5°	0.0	0.0	5.5	13.8	22.0	27.5	44.1	55.1	63.4	57.8	44.1
85°	0.0	0.0	5.5	11.0	16.5	19.3	19.3	13.8	13.8	8.3	5.5
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)