

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: P652313

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11361.1 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

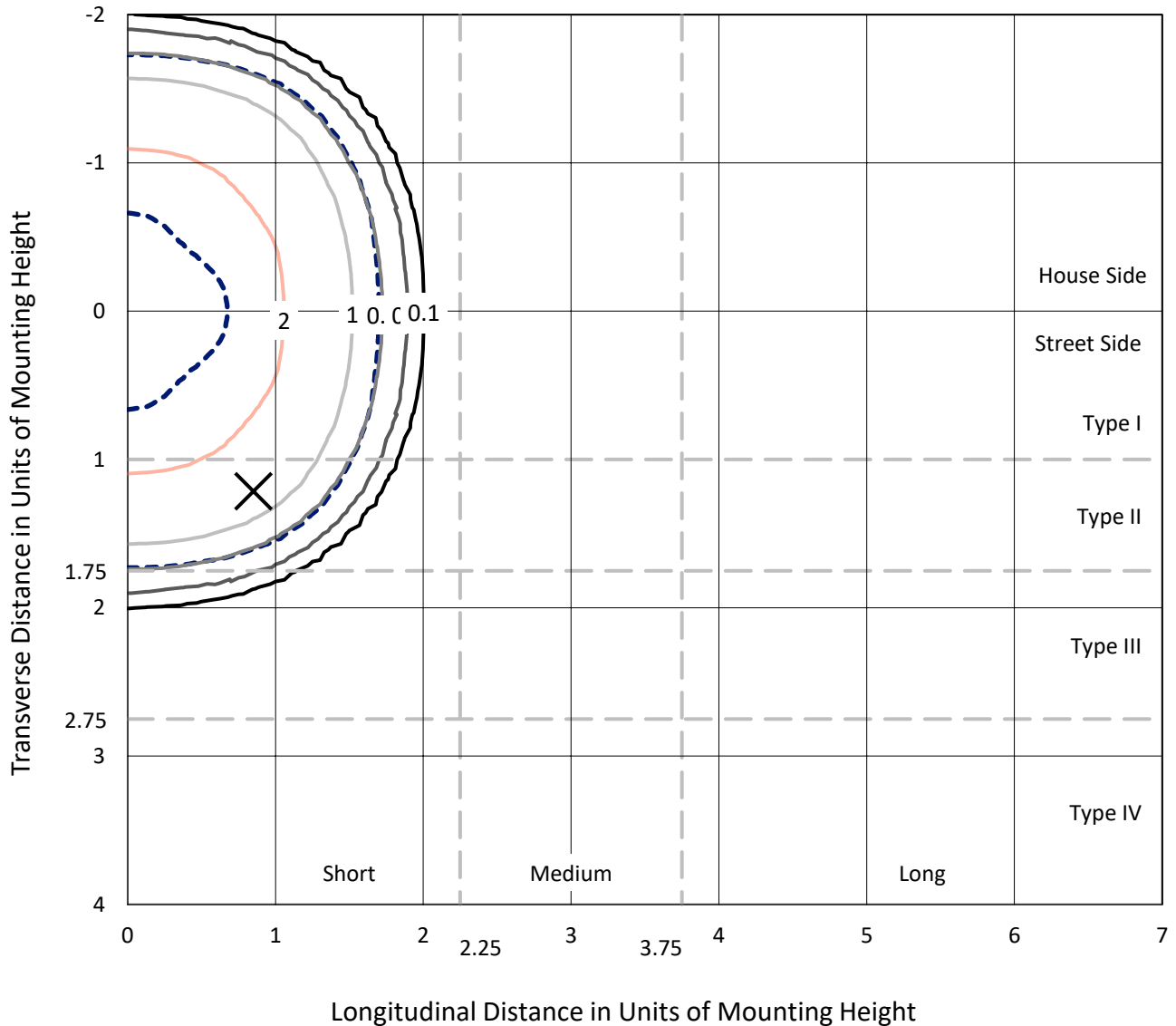
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

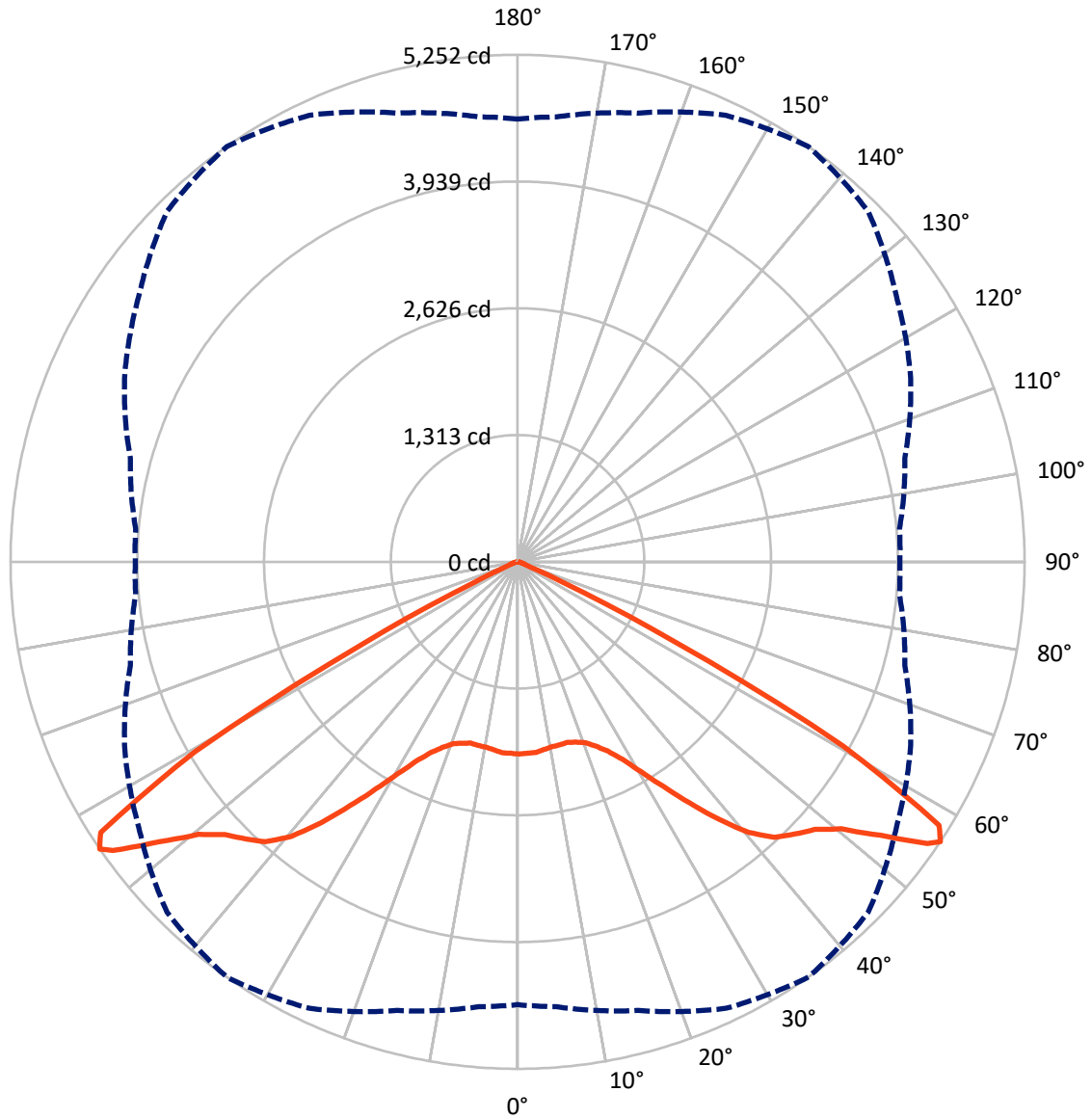
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5680.5	0.0	5680.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5680.5	0.0	5680.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11361.1	0.0	11361.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.6
10°-20°	546.2	4.8
20°-30°	989.1	8.7
30°-40°	1834.2	16.1
40°-50°	3010.8	26.5
50°-60°	3878.7	34.1
60°-70°	854.8	7.5
70°-80°	49.6	0.4
80°-90°	10.4	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°	11361.1	100.0
0°-180°	11361.1	100.0

Coefficient of Utilization

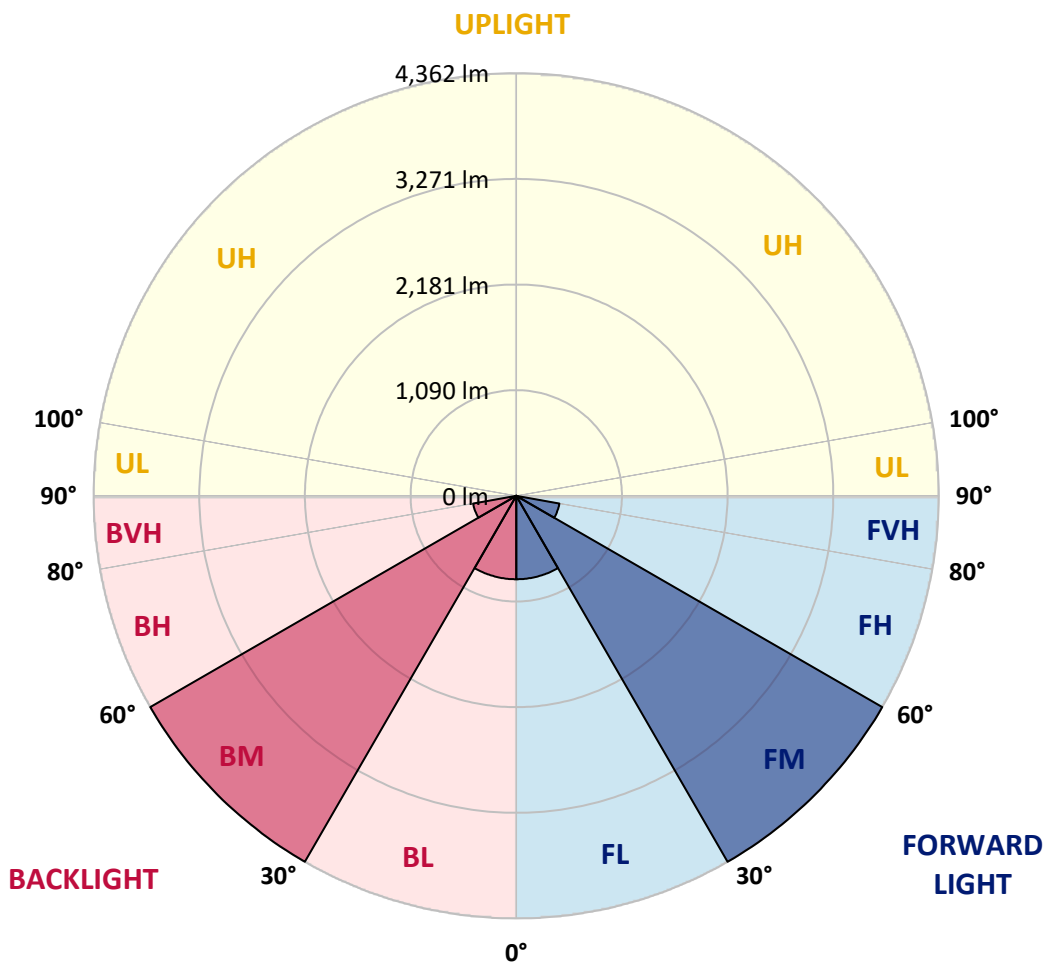


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.2	7.6			
FM (30°-60°)	4361.9	38.4			
FH (60°-80°)	452.2	4.0			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	861.2	7.6	B2/1000		
BM (30°-60°)	4361.9	38.4	B3/5000		
BH (60°-80°)	452.2	4.0	B1/500		G0/660
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1990.7	1990.7	1990.7	1990.7	1990.7	1990.7	1990.7	1990.7	1990.7	1990.7	1990.7
2.5°	1994.9	1994.9	1996.9	1999.0	1984.5	1978.4	1980.4	1976.3	1974.2	1980.4	1980.4
5°	1988.6	1988.6	1982.5	1984.5	1984.5	1966.0	1966.0	1970.1	1970.1	1957.8	1953.6
7.5°	1972.1	1968.0	1959.8	1970.1	1963.9	1963.9	1949.5	1939.3	1935.1	1943.4	1935.1
10°	1937.2	1939.3	1947.5	1951.6	1947.5	1959.8	1935.1	1920.7	1906.3	1900.2	1900.2
12.5°	1920.7	1933.0	1920.7	1931.0	1945.4	1935.1	1920.7	1910.4	1889.8	1881.6	1881.6
15°	1918.7	1926.9	1931.0	1945.4	1939.3	1943.4	1914.5	1902.2	1871.3	1856.9	1850.7
17.5°	1916.6	1926.9	1933.0	1959.8	1963.9	1966.0	1943.4	1906.3	1879.6	1865.1	1850.7
20°	1939.3	1943.4	1955.7	1982.5	1999.0	2027.7	1986.6	1947.5	1889.8	1873.3	1867.2
22.5°	1968.0	1988.6	2001.0	2029.8	2073.1	2097.8	2044.2	1994.9	1935.1	1914.5	1889.8
25°	2060.7	2056.6	2077.2	2136.9	2171.9	2190.4	2147.2	2075.1	1996.9	1972.1	1976.3
27.5°	2176.0	2180.1	2198.6	2264.5	2315.9	2344.8	2293.3	2198.6	2122.4	2081.3	2077.2
30°	2326.3	2322.2	2342.7	2431.2	2523.9	2567.2	2476.6	2365.4	2291.3	2237.7	2250.1
32.5°	2484.8	2486.8	2544.4	2624.8	2775.0	2859.5	2713.3	2577.4	2466.2	2429.2	2410.6
35°	2719.5	2729.7	2775.0	2898.6	3065.3	3174.4	3013.8	2851.2	2723.6	2655.6	2663.9
37.5°	3009.8	2999.4	3075.6	3209.4	3384.4	3464.7	3328.8	3143.6	3013.8	2968.6	2997.4
40°	3318.5	3328.8	3368.0	3489.4	3684.9	3738.5	3536.7	3435.9	3322.6	3300.0	3335.0
42.5°	3627.3	3621.2	3649.9	3759.1	3901.1	3864.1	3744.6	3684.9	3604.7	3559.4	3606.7
45°	3853.8	3843.5	3897.0	3971.1	4022.6	3952.6	3899.0	3878.4	3837.3	3787.9	3831.1
47.5°	4074.1	4065.8	4117.3	4137.9	4142.0	4049.3	4059.7	4096.7	3993.7	3890.8	3940.3
50°	4261.3	4247.0	4310.8	4356.0	4345.8	4197.6	4234.6	4197.6	4037.0	3915.5	3897.0
52.5°	4574.3	4580.5	4648.4	4730.8	4706.1	4582.5	4529.0	4360.2	4154.4	4045.2	3981.4
55°	4771.9	4741.1	4858.4	5119.8	5148.7	5021.0	4784.3	4535.2	4226.4	4092.6	4076.1
56°	4586.6	4625.8	4811.0	5103.4	5251.6	5134.2	4790.4	4491.9	4152.3	3971.1	3958.8
57.5°	4115.2	4094.7	4345.8	4745.2	5148.7	5099.2	4621.6	4183.1	3787.9	3584.1	3559.4
60°	2560.9	2620.6	2840.9	3335.0	3874.3	3899.0	3425.6	3048.9	2587.7	2406.5	2449.7
62.5°	1002.6	951.1	1089.0	1457.5	1828.1	1910.4	1731.3	1439.0	1181.7	1002.6	990.2
65°	232.6	226.5	255.2	352.0	492.0	570.3	541.4	389.0	286.2	271.7	251.1
67.5°	131.8	131.8	125.6	125.6	137.9	146.2	140.0	137.9	144.1	150.3	148.2
70°	92.7	90.6	86.5	88.6	84.4	84.4	90.6	100.8	109.1	109.1	111.2
72.5°	55.6	55.6	55.6	61.7	61.7	61.7	68.0	76.2	78.2	76.2	74.1
75°	24.7	24.7	28.8	35.0	39.1	41.2	47.3	51.5	55.6	51.5	47.3
77.5°	6.1	6.1	10.3	14.4	18.5	22.6	30.9	37.1	39.1	37.1	30.9
80°	2.0	2.0	4.1	10.3	18.5	22.6	30.9	33.0	35.0	30.9	24.7
82.5°	2.0	2.0	4.1	10.3	14.4	18.5	24.7	28.8	30.9	26.7	24.7
85°	0.0	2.0	4.1	8.2	12.4	16.5	16.5	12.4	10.3	6.1	8.2
87.5°	0.0	0.0	2.0	2.0	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)