

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: P651062

Luminaire Tested: **GALN-SA8C-840-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41835.6 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

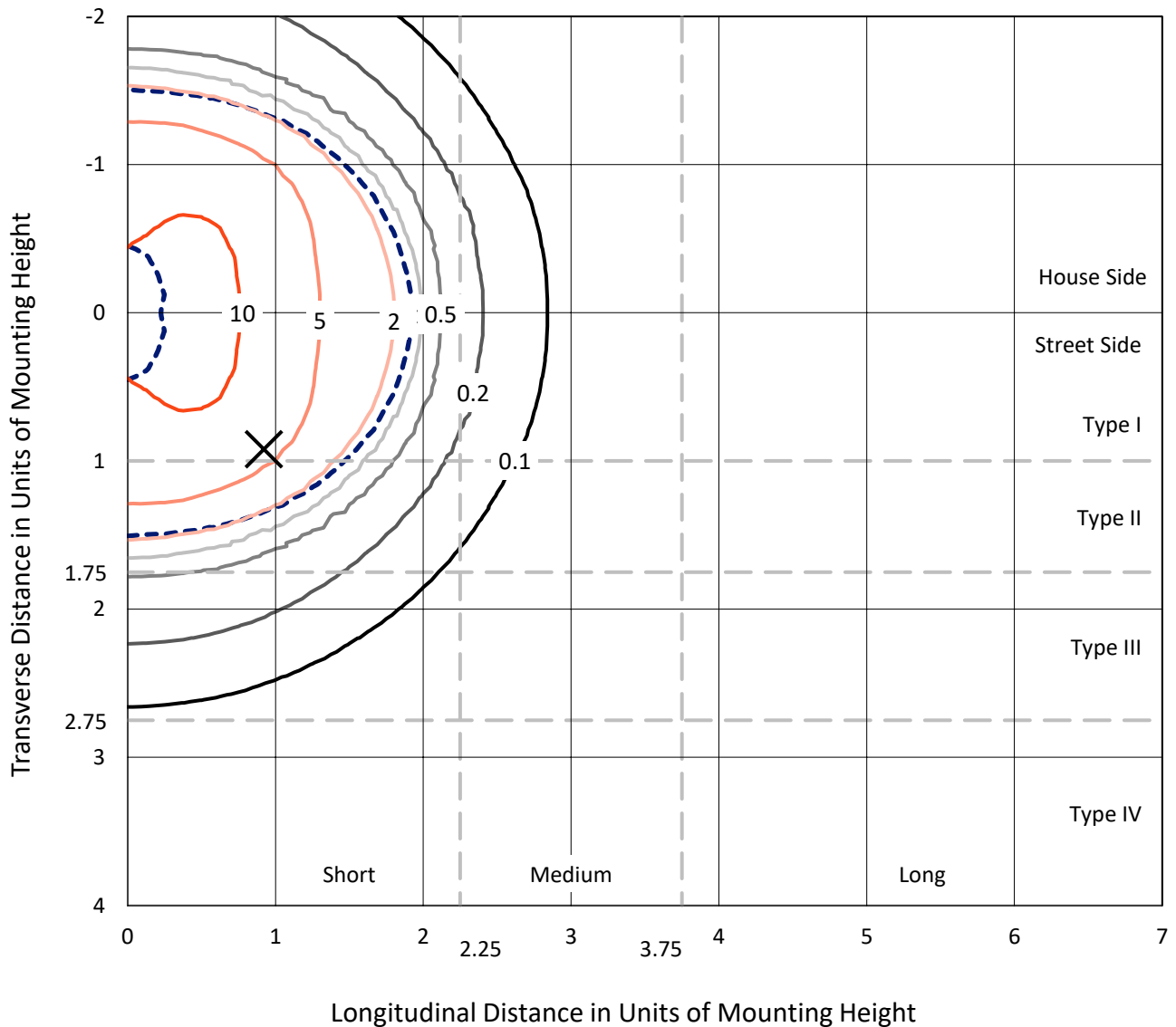
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

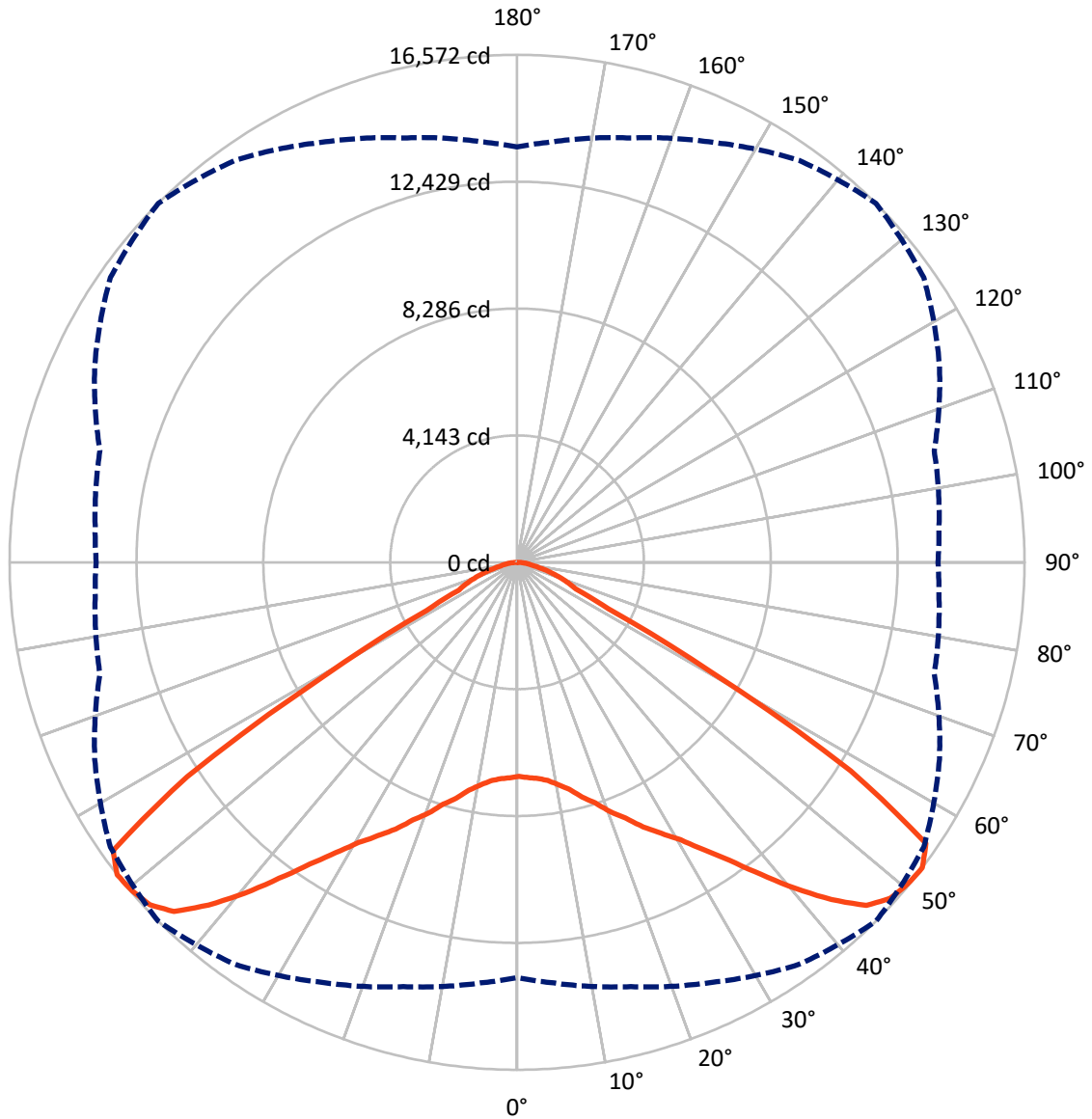
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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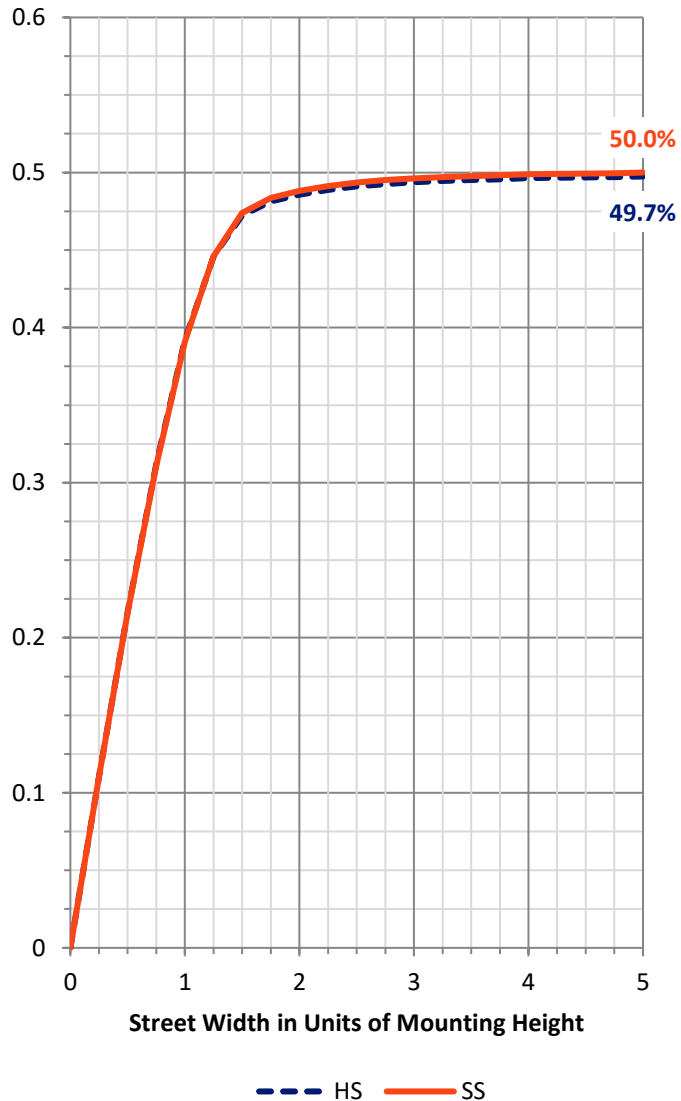
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20917.8	0.0	20917.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20917.8	0.0	20917.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	41835.6	0.0	41835.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.1	1.6
10°-20°	2257.7	5.4
20°-30°	4298.3	10.3
30°-40°	7380.5	17.6
40°-50°	11344.1	27.1
50°-60°	11519.7	27.5
60°-70°	3210.4	7.7
70°-80°	947.0	2.3
80°-90°	190.7	0.5
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°	41835.6	100.0
0°-180°	41835.6	100.0

Coefficient of Utilization



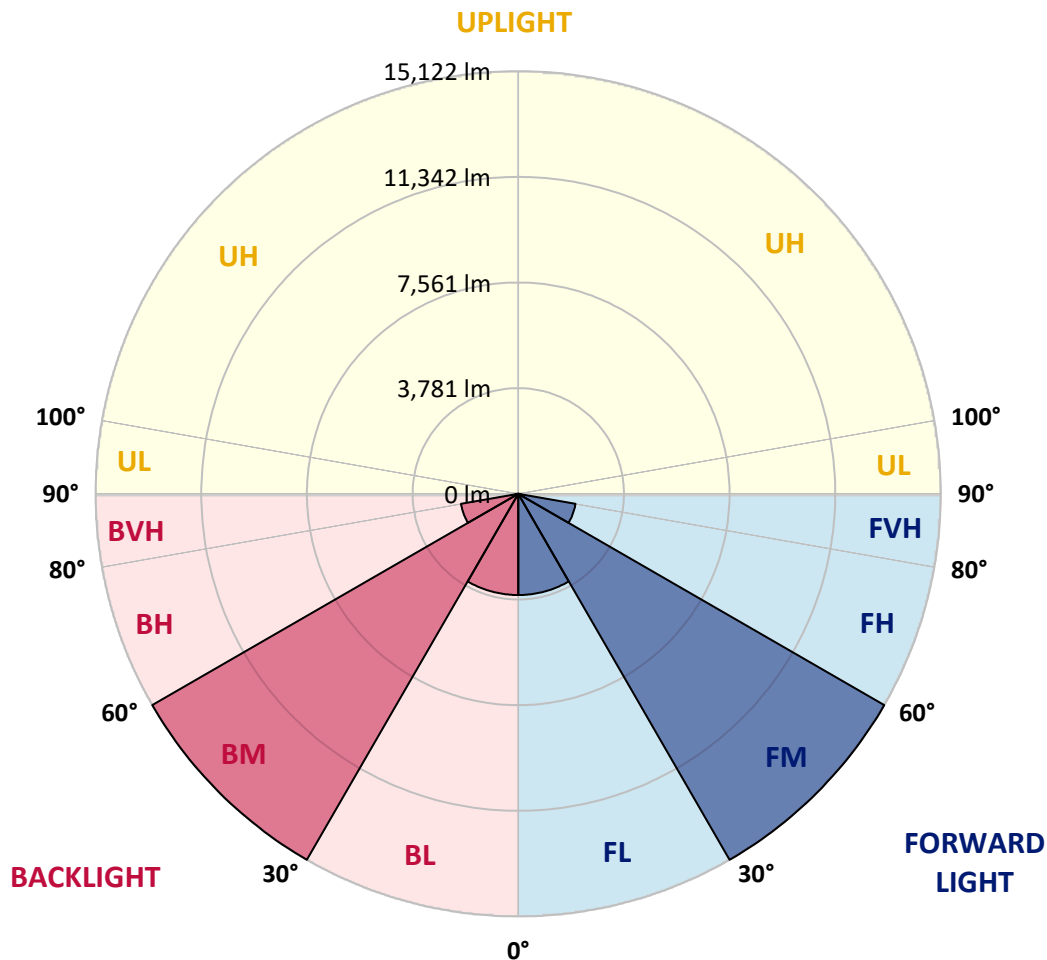
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3621.5	8.7			
FM (30°-60°)	15122.1	36.1			
FH (60°-80°)	2078.7	5.0			G2/5000
FVH (80°-90°)	95.4	0.2			G1/100
BL (0°-30°)	3621.5	8.7	B4/5000		
BM (30°-60°)	15122.1	36.1	B5		
BH (60°-80°)	2078.7	5.0	B3/2500		G2/5000
BVH (80°-90°)	95.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6993.3	6993.3	6993.3	6993.3	6993.3	6993.3	6993.3	6993.3	6993.3	6993.3	6993.3
2.5°	7009.0	6936.2	6962.2	6977.8	7045.3	7040.1	7024.5	7045.3	7066.1	7071.2	7060.9
5°	7003.8	6951.8	6972.6	6988.2	7055.7	7092.0	7081.6	7169.9	7232.2	7216.6	7294.5
7.5°	6962.2	6993.3	6967.4	7045.3	7102.4	7190.6	7284.1	7367.2	7445.0	7533.3	7548.9
10°	7055.7	7055.7	7102.4	7164.7	7315.3	7382.7	7517.7	7637.1	7787.7	7891.5	7850.0
12.5°	7154.3	7169.9	7169.9	7330.8	7455.5	7606.0	7730.6	7891.5	8104.4	8229.0	8291.3
15°	7253.0	7263.3	7315.3	7533.3	7720.2	7959.1	8073.3	8218.6	8338.0	8571.6	8576.9
17.5°	7341.2	7398.4	7554.1	7798.1	8031.7	8260.1	8441.9	8592.4	8696.3	8789.7	8768.9
20°	7673.5	7715.0	7876.0	8120.0	8467.9	8691.1	8753.4	8779.4	8846.8	9033.8	8976.7
22.5°	7995.4	8010.9	8161.5	8535.3	8779.4	9075.3	9142.8	9127.2	9153.2	9199.9	9283.0
25°	8327.7	8353.7	8561.3	8878.0	9220.6	9573.7	9630.8	9511.4	9475.0	9526.9	9532.1
27.5°	8753.4	8758.6	9023.3	9298.5	9687.9	10020.2	10108.5	10015.0	9843.7	9885.2	9952.7
30°	9293.3	9257.0	9521.8	9916.3	10326.5	10513.4	10664.0	10617.2	10430.3	10394.0	10336.9
32.5°	9916.3	9926.7	10165.6	10596.5	10866.5	11178.0	11338.9	11261.0	11141.7	11079.3	11115.7
35°	10793.7	10840.5	11001.5	11359.6	11795.8	11951.5	12205.9	12039.8	11728.2	11806.1	11873.7
37.5°	11515.4	11650.4	11951.5	12377.2	12636.9	12922.4	13015.8	12792.6	12564.2	12470.7	12694.0
40°	12621.3	12579.8	12912.0	13337.8	13721.9	14007.5	13888.1	13664.8	13098.9	13104.1	13166.4
42.5°	13571.4	13592.2	13846.6	14355.4	14879.7	15056.3	14677.2	14132.1	13503.9	13436.4	13571.4
45°	14370.9	14454.0	14599.3	15279.5	15793.5	15985.6	15284.7	14640.9	13799.8	13519.5	13742.7
47.5°	14656.4	14791.4	15108.1	15731.2	16240.0	16395.7	15835.0	14910.8	14075.0	13618.1	13737.5
50°	14698.0	14651.3	15170.5	15741.6	16188.1	16525.5	16032.3	15108.1	14007.5	13768.7	13732.4
52.5°	13561.0	13789.5	14344.9	15128.9	16032.3	16572.2	16208.8	15217.2	14101.0	13831.0	13742.7
55°	10975.5	10705.5	11717.9	13036.6	14698.0	16198.4	16146.5	15274.3	14158.1	13934.8	13815.4
57.5°	6126.3	6204.2	6775.3	8208.2	10352.5	12844.5	14355.4	14672.0	14132.1	14002.3	14064.6
60°	2834.8	2860.7	3104.7	3774.4	5103.5	7284.1	9272.5	11292.2	12221.5	12408.5	12408.5
62.5°	2113.1	2102.7	2165.0	2284.4	2564.7	3348.7	4470.2	6074.4	7351.6	8244.6	8478.2
65°	1910.6	1905.4	1936.6	1978.1	1998.8	2107.9	2357.1	2850.3	3265.7	3504.4	3462.9
67.5°	1671.7	1666.6	1677.0	1702.9	1739.3	1796.4	1858.7	1962.5	2107.9	2097.5	2071.6
70°	1349.9	1349.9	1365.4	1386.2	1427.8	1495.2	1568.0	1640.6	1765.2	1791.2	1785.9
72.5°	996.8	981.3	1012.4	1053.9	1095.5	1178.6	1256.5	1323.9	1412.2	1438.1	1427.8
75°	633.4	643.8	664.6	711.3	784.0	841.1	924.2	981.3	1038.4	1059.2	1064.3
77.5°	353.1	363.4	399.7	456.9	529.6	591.9	664.6	711.3	747.6	752.8	758.0
80°	212.9	218.1	254.4	306.3	368.6	436.1	493.2	539.9	571.1	555.6	550.4
82.5°	129.8	135.0	166.1	212.9	264.7	316.7	379.0	420.5	451.7	430.9	410.2
85°	67.5	72.7	98.6	129.8	171.3	197.3	197.3	176.5	171.3	161.0	155.8
87.5°	20.8	20.8	26.0	31.1	26.0	31.1	36.3	41.5	41.5	46.8	41.5
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)