

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: P652601

Luminaire Tested: **GALN-SA9B-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28036.4 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

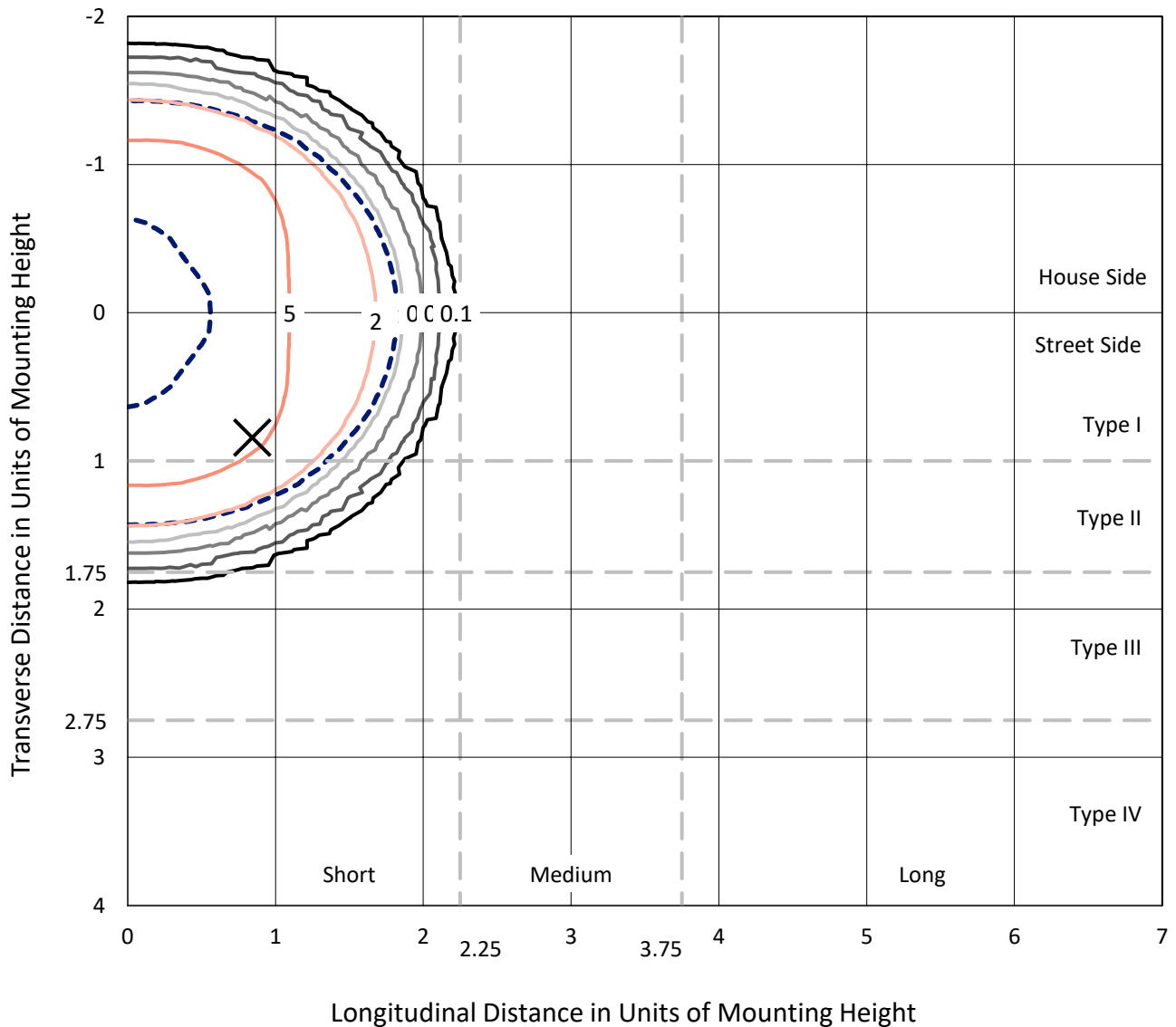
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

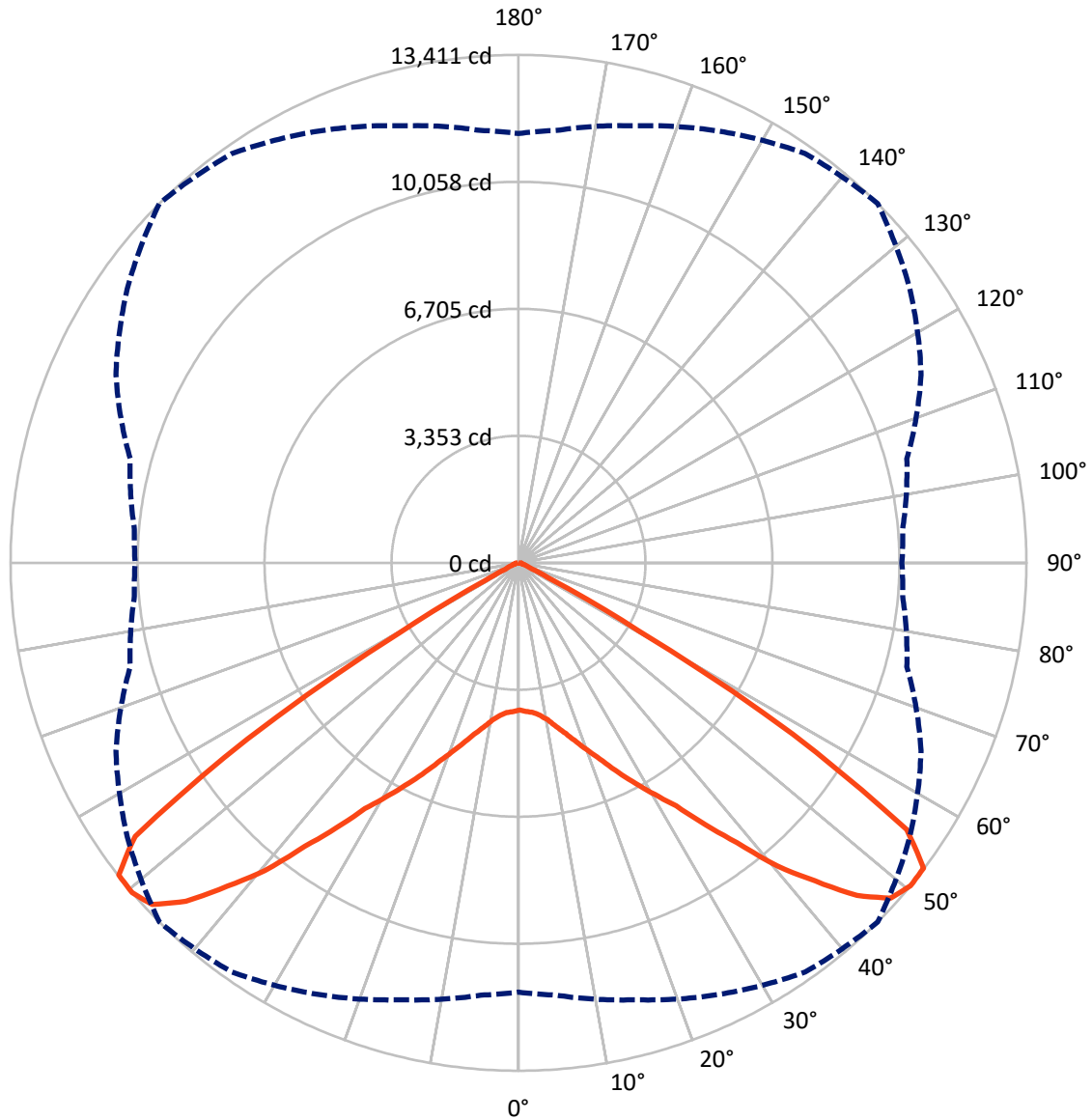
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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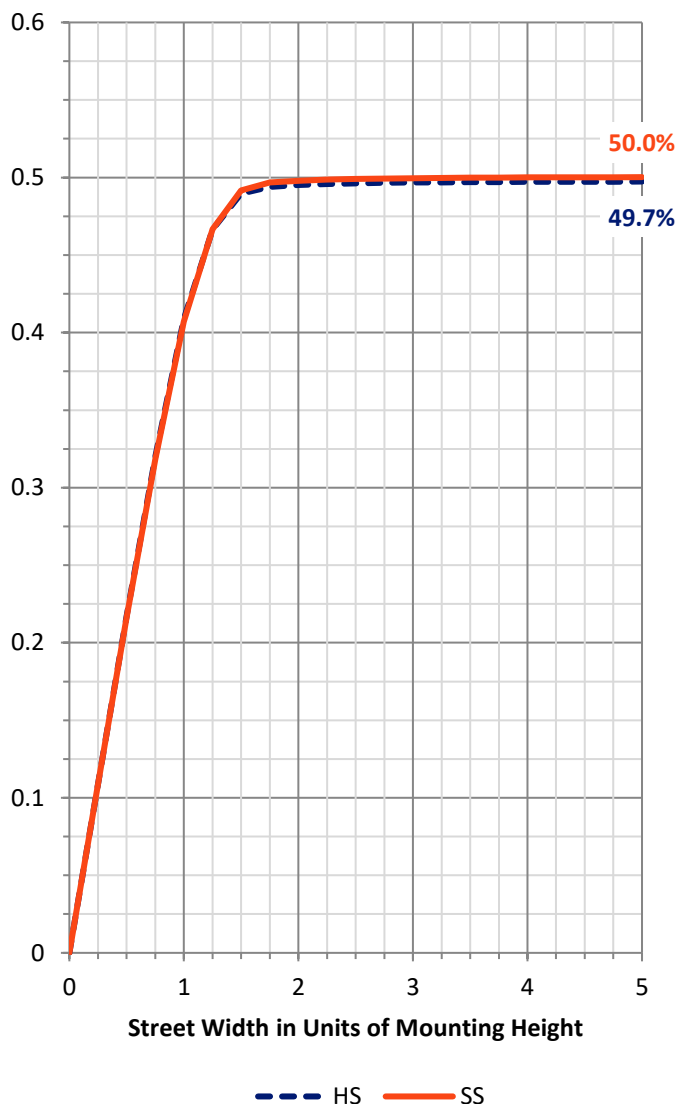
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14018.2	0.0	14018.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14018.2	0.0	14018.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28036.4	0.0	28036.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	1.4
10°-20°	1332.8	4.8
20°-30°	2722.0	9.7
30°-40°	5190.9	18.5
40°-50°	8747.4	31.2
50°-60°	8342.2	29.8
60°-70°	1164.5	4.2
70°-80°	111.4	0.4
80°-90°	38.5	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°	28036.4	100.0
0°-180°	28036.4	100.0

Coefficient of Utilization



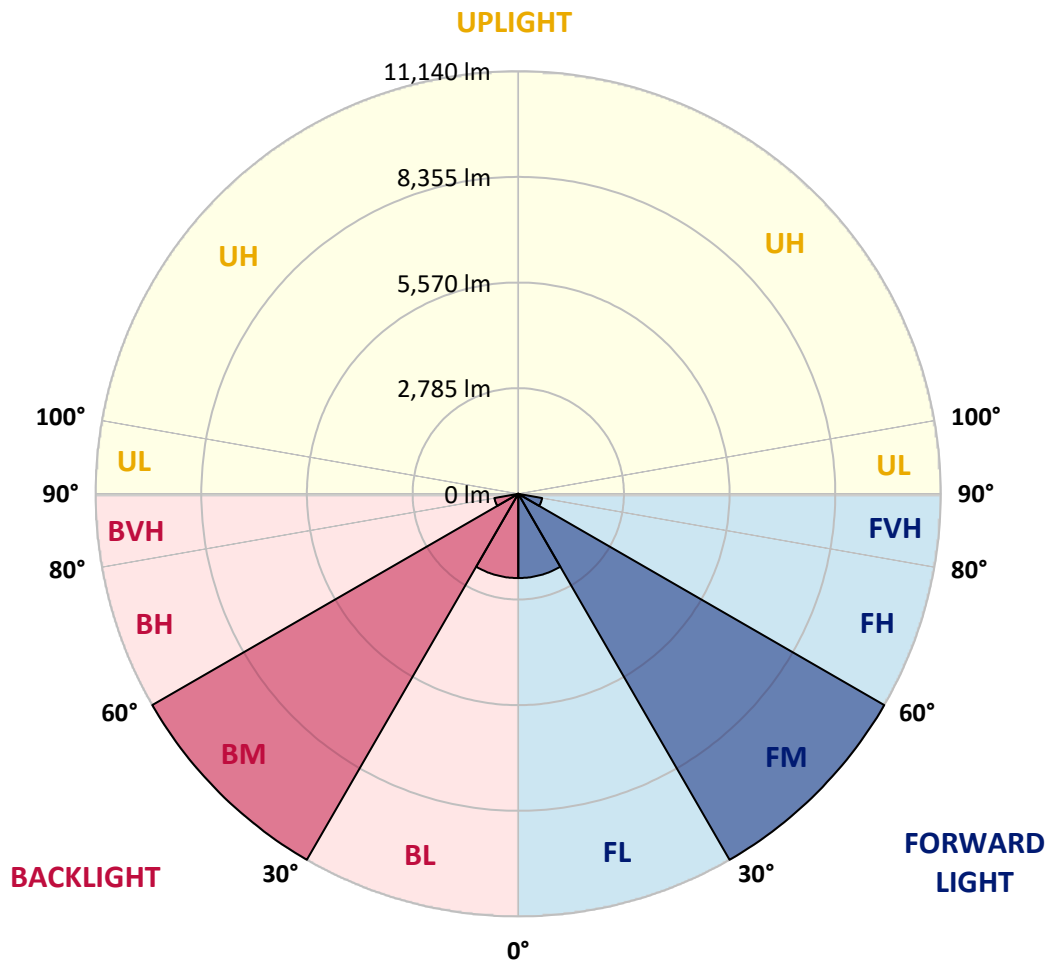
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.7	7.9			
FM (30°-60°)	11140.3	39.7			
FH (60°-80°)	637.9	2.3			G0/660
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	2220.7	7.9	B3/2500		
BM (30°-60°)	11140.3	39.7	B5		
BH (60°-80°)	637.9	2.3	B2/1000		G0/660
BVH (80°-90°)	19.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3886.9	3886.9	3886.9	3886.9	3886.9	3886.9	3886.9	3886.9	3886.9	3886.9	3886.9
2.5°	3872.8	3872.8	3868.1	3905.8	3886.9	3929.4	3924.7	3938.8	3953.0	3948.2	3986.0
5°	3839.8	3835.0	3835.0	3877.5	3920.0	3967.2	4009.6	4037.9	4085.1	4085.1	4132.3
7.5°	3872.8	3849.2	3882.2	3901.1	3981.3	4061.4	4132.3	4188.9	4297.3	4335.1	4320.9
10°	3882.2	3910.6	3934.1	3990.7	4089.8	4212.4	4273.7	4415.2	4537.9	4622.8	4641.6
12.5°	3943.5	3986.0	4052.0	4188.9	4278.5	4438.9	4523.7	4660.6	4830.4	4924.7	4990.7
15°	4061.4	4075.7	4160.5	4335.1	4528.4	4674.7	4806.8	4905.9	5071.0	5179.5	5184.2
17.5°	4212.4	4273.7	4391.7	4556.8	4759.6	4976.6	5080.4	5188.9	5250.2	5396.4	5429.4
20°	4514.3	4523.7	4636.9	4854.0	5108.7	5306.8	5382.3	5438.9	5415.3	5566.2	5594.6
22.5°	4797.3	4806.8	4948.3	5240.8	5514.4	5684.2	5717.2	5684.2	5613.4	5721.9	5731.3
25°	5085.1	5170.0	5273.8	5566.2	5905.9	6132.3	6137.0	6047.4	5901.1	5920.1	5967.2
27.5°	5533.2	5594.6	5703.1	5971.9	6344.6	6599.3	6556.9	6448.4	6259.6	6273.9	6259.6
30°	6056.8	6113.5	6203.0	6547.4	6821.0	7099.3	7160.6	7056.9	6773.8	6712.5	6783.3
32.5°	6688.9	6769.1	6934.2	7250.3	7481.5	7651.2	7693.7	7656.0	7391.8	7368.2	7415.3
35°	7457.8	7566.3	7717.3	7995.6	8184.3	8490.9	8490.9	8363.5	8123.0	8151.2	8146.5
37.5°	8269.2	8429.6	8665.4	8948.5	9203.1	9368.3	9316.4	9207.9	8967.3	8906.0	8967.3
40°	9288.1	9368.3	9665.4	10033.4	10344.7	10533.4	10311.8	10075.9	9500.4	9590.0	9755.1
42.5°	10217.4	10344.7	10571.1	10976.8	11330.6	11486.3	11222.1	10755.1	10061.7	9990.9	10113.6
45°	11009.9	11146.6	11443.8	12024.0	12396.7	12533.5	11948.6	11193.8	10401.3	10222.1	10274.0
47.5°	11538.2	11608.9	12024.0	12576.0	12915.6	13226.9	12387.3	11495.7	10561.7	10222.1	10203.2
50°	11335.3	11458.0	11943.9	12571.3	13189.2	13410.9	12608.9	11726.9	10613.6	10179.6	10123.0
52.5°	10066.4	10278.7	10821.1	11665.5	12599.5	13392.0	12915.6	11651.4	10594.7	10222.1	10307.0
55°	7005.0	7009.7	7670.1	8915.4	10566.4	12434.4	12467.5	11736.3	10717.4	10486.3	10491.0
57.5°	2816.2	2957.6	3462.4	4712.5	6236.1	8538.1	10151.3	10887.2	10731.6	10674.9	10821.1
60°	712.3	717.0	872.7	1330.2	2193.5	3660.5	5316.2	7193.7	8283.3	8656.0	8707.9
62.5°	363.2	367.9	405.7	471.7	599.0	981.2	1745.3	2769.0	3938.8	4533.2	4688.8
65°	297.2	297.2	320.8	353.8	358.5	377.4	452.9	646.2	938.7	1066.1	1080.3
67.5°	226.4	226.4	245.3	264.2	273.6	268.9	259.4	268.9	325.5	311.3	301.9
70°	141.5	146.2	155.7	174.5	184.0	188.7	193.4	202.8	231.1	240.6	231.1
72.5°	84.9	84.9	89.7	103.8	117.9	127.3	141.5	151.0	165.1	188.7	184.0
75°	37.8	37.8	47.2	61.3	75.4	89.7	103.8	117.9	127.3	141.5	146.2
77.5°	9.4	14.1	23.5	42.5	56.6	75.4	94.4	108.5	117.9	117.9	113.2
80°	4.7	4.7	18.8	33.1	61.3	80.2	103.8	113.2	127.3	117.9	103.8
82.5°	4.7	4.7	18.8	33.1	56.6	80.2	108.5	122.6	132.1	117.9	99.1
85°	0.0	4.7	14.1	28.3	47.2	56.6	47.2	33.1	18.8	18.8	14.1
87.5°	0.0	0.0	4.7	4.7	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)