

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: P652108

Luminaire Tested: **GALN-SA9A-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35972.9 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 274
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

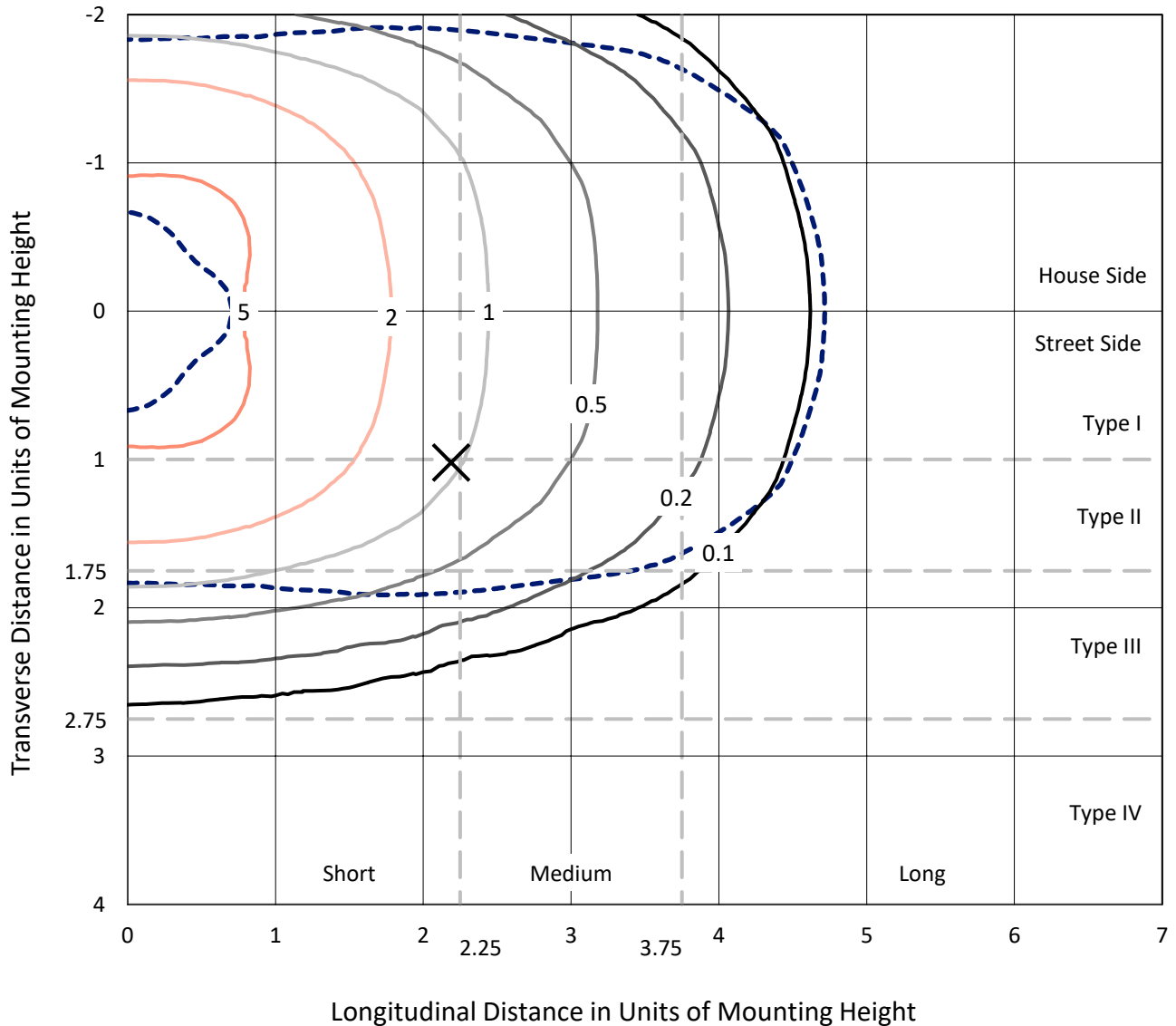




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Iso-Footcandle Lines of Horizontal Illumination

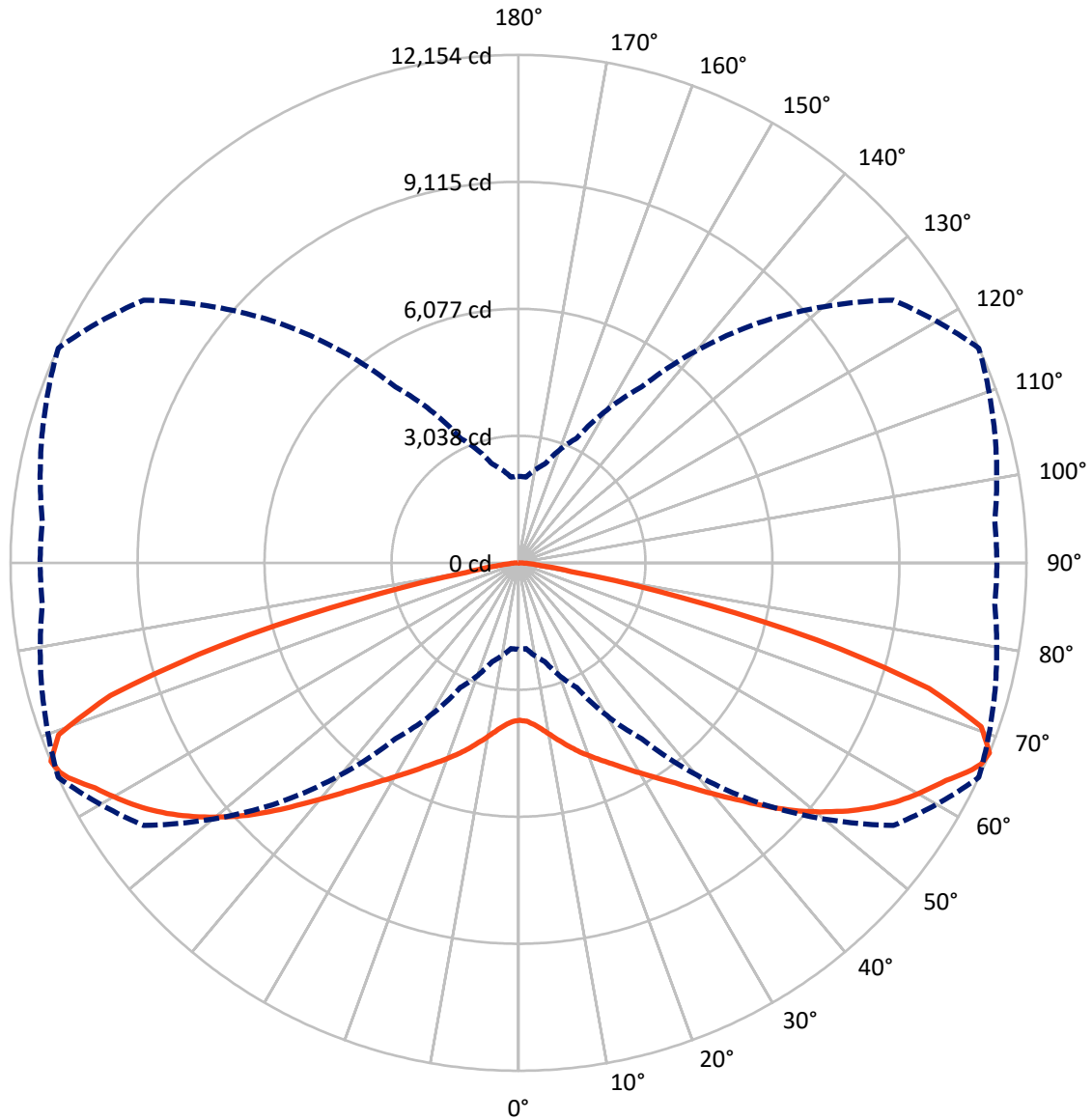
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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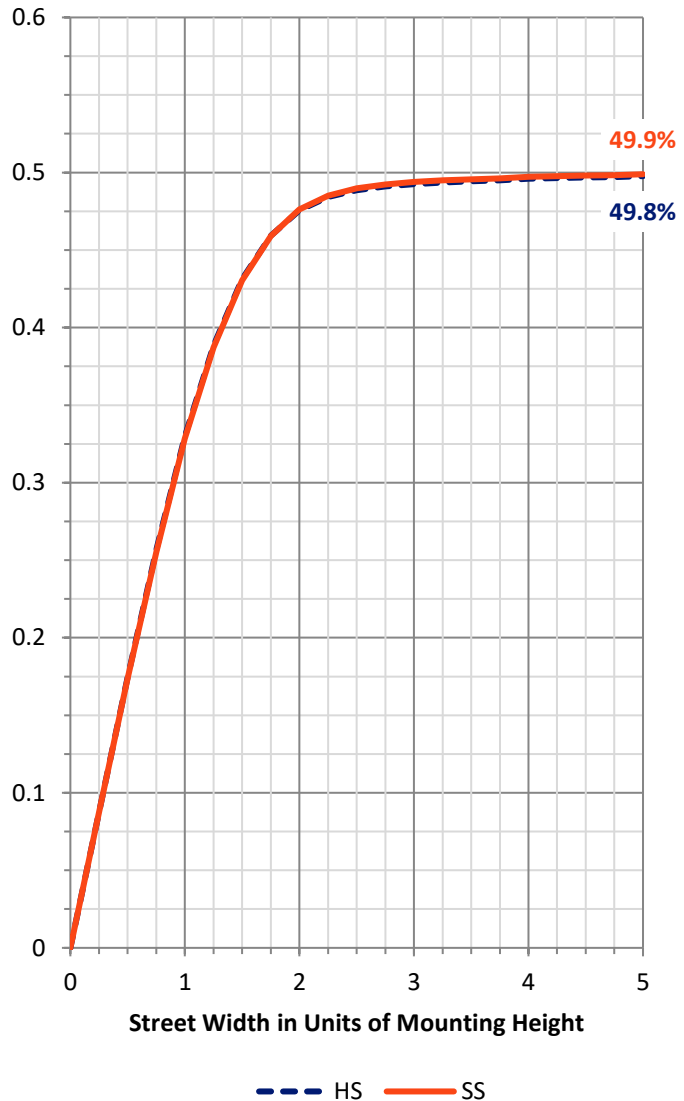
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17986.5	0.0	17986.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17986.5	0.0	17986.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35972.9	0.0	35972.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.6	1.0
10°-20°	1243.7	3.5
20°-30°	2432.9	6.8
30°-40°	4138.0	11.5
40°-50°	6549.2	18.2
50°-60°	8684.1	24.1
60°-70°	8191.8	22.8
70°-80°	4049.6	11.3
80°-90°	312.1	0.9
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°	35972.9	100.0
0°-180°	35972.9	100.0

Coefficient of Utilization

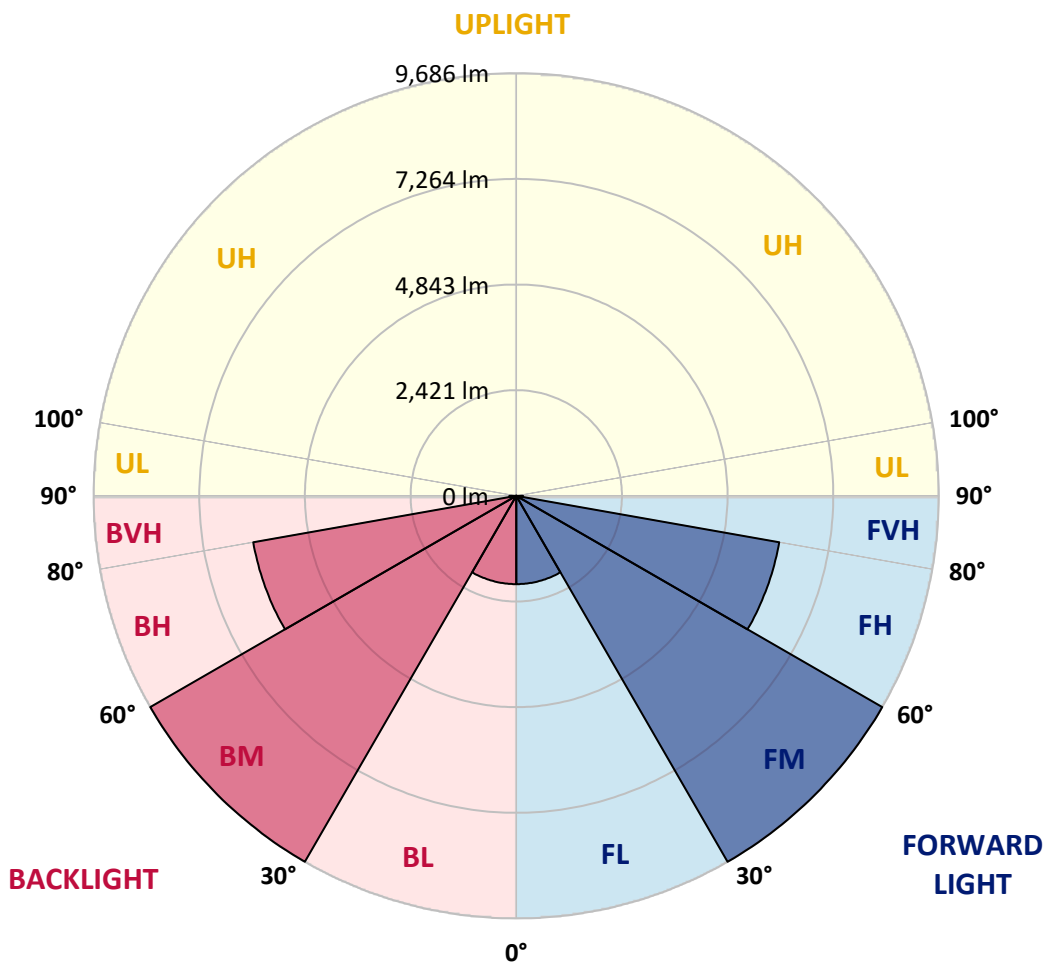


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2024.1	5.6			
FM	(30°-60°)	9685.6	26.9			
FH	(60°-80°)	6120.7	17.0			G3/7500
FVH	(80°-90°)	156.0	0.4			G2/225
BL	(0°-30°)	2024.1	5.6	B3/2500		
BM	(30°-60°)	9685.6	26.9	B5		
BH	(60°-80°)	6120.7	17.0	B5		G5
BVH	(80°-90°)	156.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3767.8	3767.8	3767.8	3767.8	3767.8	3767.8	3767.8	3767.8	3767.8	3767.8	3767.8
2.5°	3748.6	3752.5	3756.2	3762.0	3769.8	3781.3	3789.0	3794.8	3810.2	3812.2	3810.2
5°	3735.0	3738.9	3748.6	3765.9	3791.0	3825.6	3852.6	3885.4	3910.5	3927.8	3923.9
7.5°	3733.1	3740.9	3756.2	3792.9	3841.1	3900.8	3962.5	4018.4	4066.6	4105.1	4099.4
10°	3764.0	3773.7	3798.7	3852.6	3927.8	4014.5	4101.3	4184.1	4253.5	4303.6	4321.0
12.5°	3816.0	3823.8	3870.0	3950.9	4058.8	4166.8	4265.0	4367.2	4463.6	4548.4	4548.4
15°	3906.6	3920.1	3977.9	4095.5	4228.5	4353.8	4453.9	4561.9	4666.0	4762.3	4791.3
17.5°	4031.9	4051.2	4137.9	4288.2	4457.8	4573.4	4667.9	4756.5	4847.1	4939.6	4953.2
20°	4203.4	4222.7	4338.3	4519.4	4719.9	4858.7	4922.3	4943.5	4987.8	5076.4	5088.0
22.5°	4436.6	4455.9	4585.0	4789.3	5012.9	5163.2	5190.1	5140.1	5128.5	5197.9	5205.6
25°	4700.7	4718.0	4866.4	5086.1	5317.4	5481.2	5473.5	5350.2	5280.8	5323.2	5334.7
27.5°	4997.5	5022.5	5172.8	5400.2	5650.8	5795.3	5772.2	5593.0	5444.5	5436.9	5440.8
30°	5377.1	5404.1	5546.7	5764.6	6011.2	6144.2	6096.0	5855.1	5625.8	5548.7	5548.7
32.5°	5778.0	5845.5	5990.0	6217.4	6410.2	6506.6	6433.3	6144.2	5839.7	5731.8	5725.9
35°	6300.3	6336.9	6479.6	6701.2	6845.7	6920.9	6780.2	6469.9	6119.1	5992.0	5974.6
37.5°	6811.0	6841.9	7007.6	7219.6	7395.0	7391.1	7200.3	6857.3	6466.0	6323.4	6311.9
40°	7333.4	7366.1	7555.0	7749.6	7925.0	7909.6	7678.3	7294.7	6878.5	6718.5	6749.4
42.5°	7786.2	7822.9	8036.8	8314.3	8472.3	8468.5	8200.6	7768.9	7335.3	7192.7	7219.6
45°	8198.7	8231.5	8480.1	8798.0	9029.3	9058.2	8765.3	8308.6	7863.4	7680.3	7687.9
47.5°	8489.7	8551.4	8811.6	9175.8	9489.9	9592.1	9304.9	8857.8	8345.2	8154.3	8165.9
50°	8711.3	8749.8	9033.2	9447.5	9844.6	10056.6	9825.3	9366.6	8827.0	8624.6	8651.6
52.5°	8738.3	8784.6	9093.0	9570.9	10079.7	10401.6	10287.9	9863.8	9318.4	9110.3	9168.1
55°	8518.6	8545.6	8913.7	9493.8	10172.2	10657.9	10686.8	10326.4	9786.8	9628.7	9667.3
57.5°	7892.3	7961.7	8428.0	9133.4	10045.0	10794.7	10985.6	10746.6	10260.9	10104.8	10166.4
60°	6865.0	6934.4	7402.7	8297.0	9565.1	10731.2	11232.2	11118.5	10690.6	10565.4	10598.1
62.5°	5379.0	5373.3	5953.4	7050.0	8611.1	10418.9	11415.3	11477.0	11114.7	10956.6	11006.8
65°	3486.4	3503.8	4064.6	5246.1	7171.5	9624.9	11455.8	11933.8	11531.0	11291.9	11328.6
66°	2804.2	2856.2	3332.3	4421.2	6437.2	9104.5	11334.4	12068.7	11658.2	11369.1	11386.4
67.5°	2069.9	2060.3	2451.5	3291.8	5140.1	8115.8	10954.7	12153.5	11802.7	11438.4	11446.2
70°	1181.4	1179.5	1318.3	1807.8	3022.0	5714.4	9233.7	11746.8	12095.7	11689.0	11667.8
72.5°	863.5	857.7	876.9	998.4	1474.4	2885.1	6369.6	10266.7	11945.3	11648.5	11588.8
75°	724.7	720.8	717.0	732.3	826.8	1306.7	3380.5	7385.3	10365.0	10933.5	10871.9
77.5°	591.6	591.6	593.6	589.7	593.6	688.0	1401.1	3958.7	6311.9	7046.2	7217.7
80°	462.6	460.6	493.4	479.9	449.1	441.4	620.6	1273.9	2094.9	2083.4	1719.2
82.5°	341.1	318.0	375.8	366.2	331.5	281.4	362.3	543.5	699.6	454.8	337.2
85°	215.9	214.0	265.9	242.8	202.3	133.0	173.4	233.2	289.1	175.3	142.6
87.5°	38.5	36.6	84.8	61.6	61.6	38.5	48.2	63.6	94.4	65.5	48.2
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)