

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: P529860

Luminaire Tested: **GALN-SA5A-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20215 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

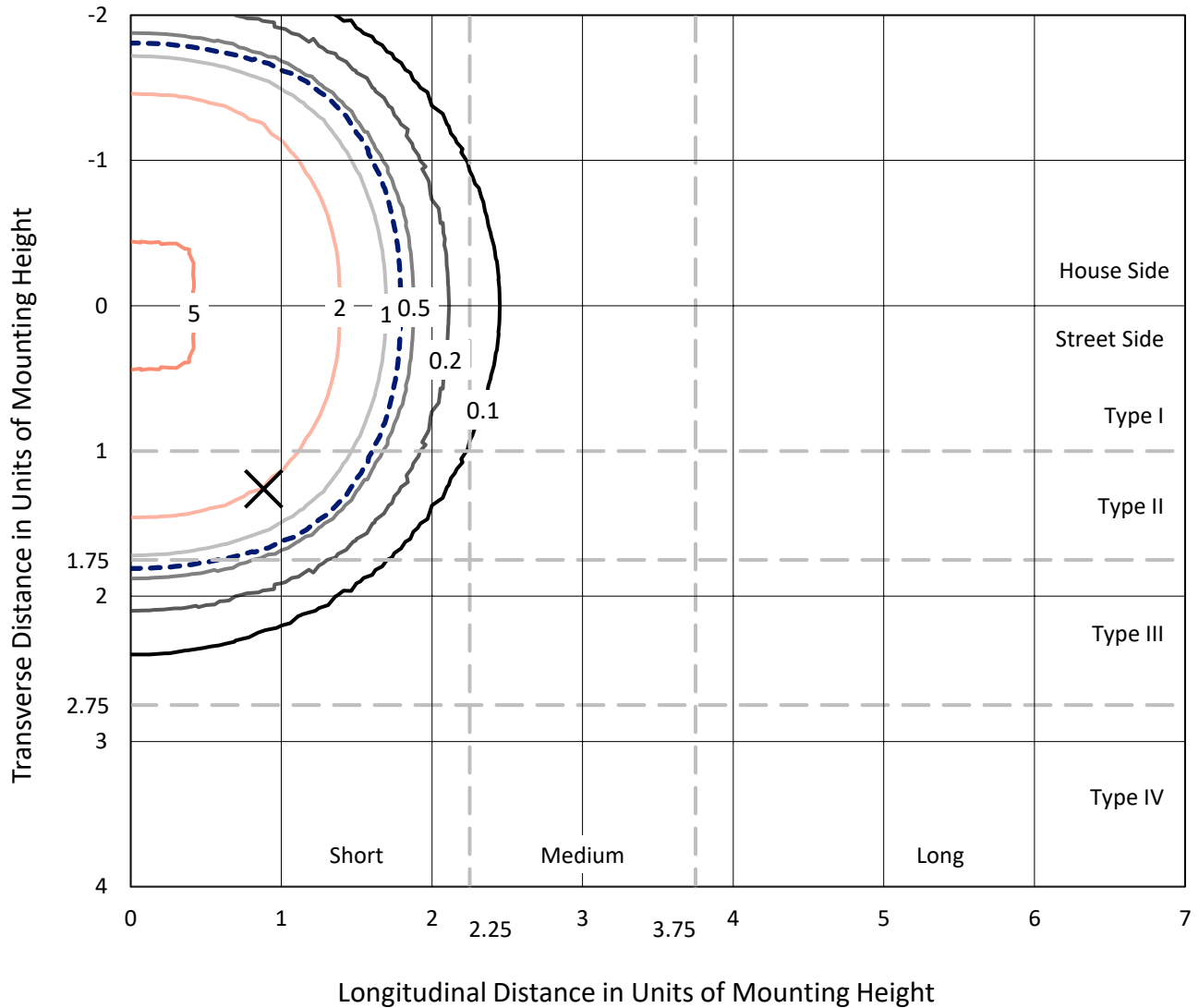
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

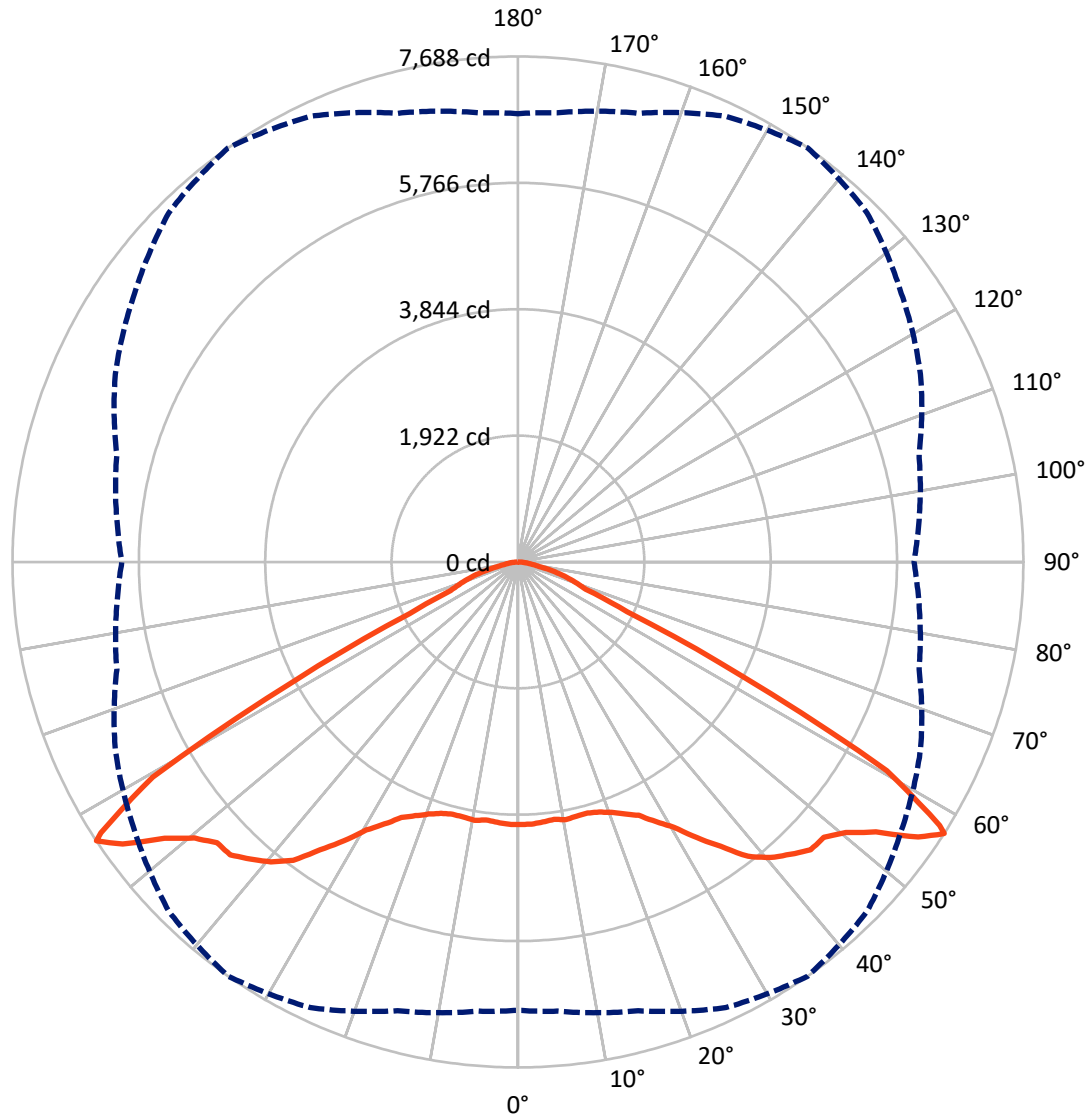
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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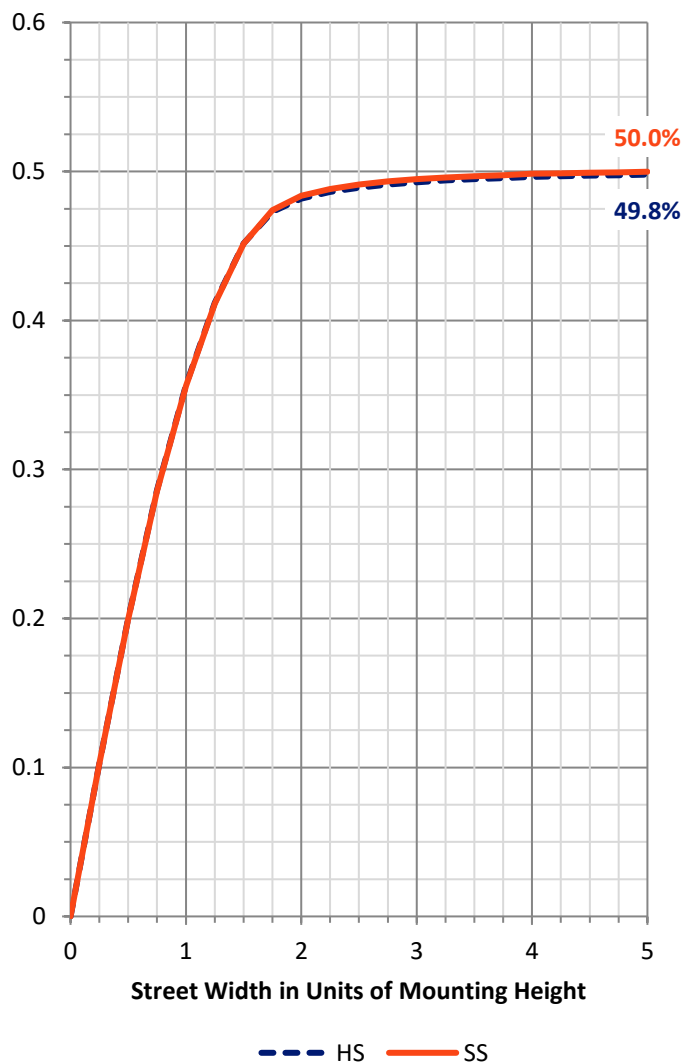
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10107.5	0.0	10107.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10107.5	0.0	10107.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20215.0	0.0	20215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.5	1.9
10°-20°	1121.0	5.5
20°-30°	1957.8	9.7
30°-40°	3207.8	15.9
40°-50°	4703.5	23.3
50°-60°	5924.4	29.3
60°-70°	2228.1	11.0
70°-80°	592.4	2.9
80°-90°	101.6	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°	20215.0	100.0
0°-180°	20215.0	100.0

Coefficient of Utilization

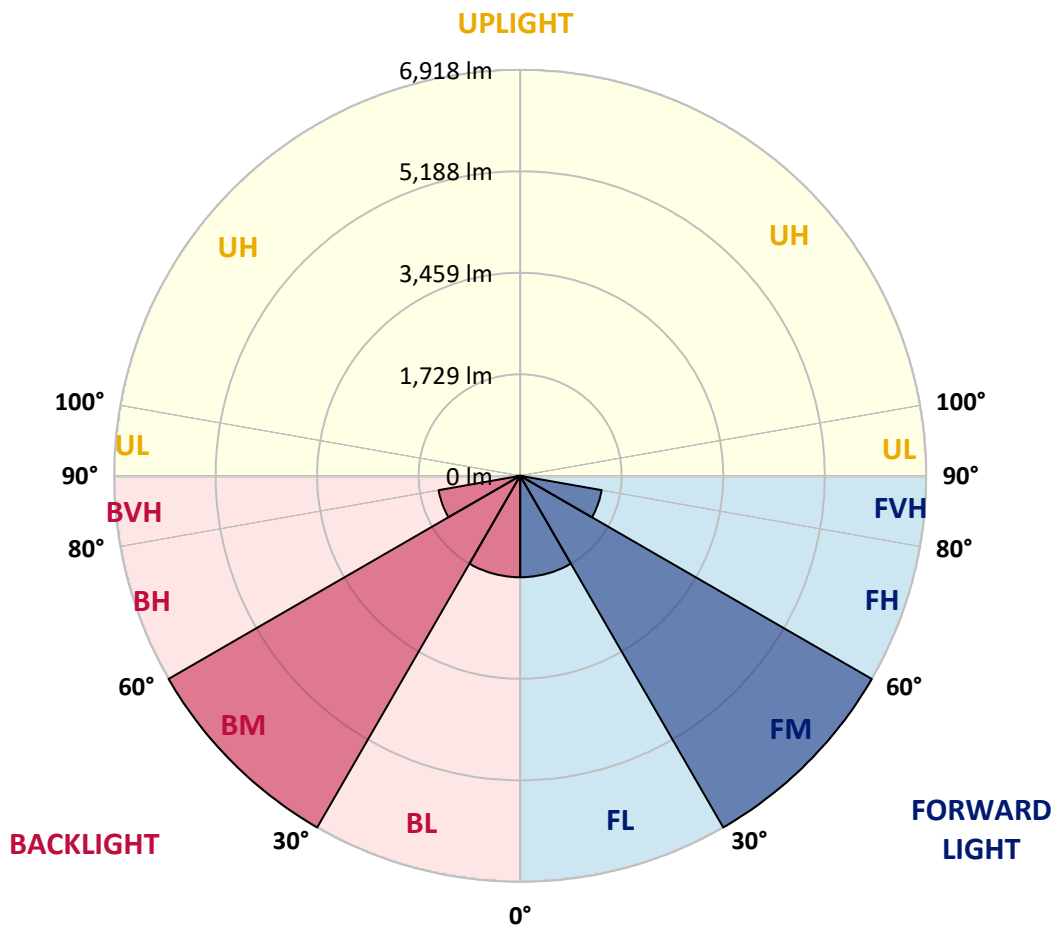


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1728.6	8.6			
FM (30°-60°)	6917.8	34.2			
FH (60°-80°)	1410.3	7.0			G1/1800
FVH (80°-90°)	50.8	0.3			G1/100
BL (0°-30°)	1728.6	8.6	B3/2500		
BM (30°-60°)	6917.8	34.2	B4/8500		
BH (60°-80°)	1410.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	50.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3992.3	3992.3	3992.3	3992.3	3992.3	3992.3	3992.3	3992.3	3992.3	3992.3	3992.3
2.5°	3972.4	4012.2	3994.8	3984.8	3992.3	3979.9	3959.9	3982.4	3977.4	3957.4	3950.0
5°	3962.4	3992.3	3972.4	3992.3	3972.4	4007.3	3997.3	3959.9	4004.8	3962.4	3977.4
7.5°	3955.0	3964.9	3969.9	3959.9	3952.5	3994.8	3972.4	3955.0	3930.1	3922.6	3935.0
10°	3937.5	3962.4	3925.1	3974.9	3984.8	3955.0	3955.0	3922.6	3902.7	3890.2	3932.5
12.5°	3982.4	3940.0	3935.0	3959.9	3967.4	3979.9	3945.0	3927.6	3890.2	3895.2	3887.7
15°	3930.1	3947.5	3950.0	3955.0	3962.4	3992.3	3959.9	3922.6	3907.6	3855.3	3860.3
17.5°	3950.0	3932.5	3950.0	4007.3	3997.3	4019.7	3984.8	3927.6	3892.7	3862.8	3902.7
20°	3984.8	3977.4	3984.8	4054.6	4067.0	4087.0	4057.1	4004.8	3937.5	3902.7	3922.6
22.5°	4022.2	4017.2	4022.2	4089.4	4161.7	4186.6	4156.7	4034.7	3999.8	3935.0	3912.6
25°	4089.4	4094.4	4146.7	4221.4	4268.8	4316.1	4261.3	4174.1	4062.0	4022.2	3974.9
27.5°	4238.9	4251.3	4281.2	4390.8	4473.0	4515.3	4438.1	4318.6	4248.8	4166.7	4154.2
30°	4423.2	4423.2	4475.5	4570.1	4682.2	4746.9	4652.3	4510.3	4425.7	4380.8	4353.4
32.5°	4667.2	4639.9	4659.8	4826.6	5001.0	5055.8	4928.8	4754.4	4619.9	4560.2	4540.2
35°	4876.5	4893.9	4938.7	5118.0	5312.3	5439.3	5240.1	5013.4	4876.5	4821.7	4811.7
37.5°	5147.9	5177.8	5200.2	5446.8	5680.9	5728.2	5536.4	5354.6	5187.8	5142.9	5118.0
40°	5531.5	5511.5	5519.0	5700.8	5912.5	5942.4	5753.1	5623.6	5486.6	5459.2	5459.2
42.5°	5847.8	5825.3	5850.2	5917.5	6079.4	6057.0	5952.4	5857.7	5800.4	5770.5	5800.4
45°	6039.5	6034.5	6079.4	6129.2	6243.7	6169.0	6086.8	6101.8	6047.0	5997.2	5994.7
47.5°	6248.7	6216.4	6271.1	6345.9	6258.7	6223.8	6218.8	6251.2	6233.8	6146.6	6119.2
50°	6350.8	6338.4	6425.6	6512.7	6465.4	6385.7	6403.1	6455.4	6231.3	6114.2	6047.0
52.5°	6624.8	6627.3	6794.2	6841.5	6821.6	6704.5	6741.9	6599.9	6335.9	6171.5	6179.0
55°	7055.7	7038.2	7225.0	7364.5	7386.9	7237.5	7058.2	6858.9	6527.7	6360.8	6311.0
57°	6819.1	6858.9	7065.6	7479.1	7688.3	7511.4	7120.4	6756.8	6316.0	6114.2	6024.6
57.5°	6502.8	6567.5	6926.2	7342.1	7561.2	7546.3	7043.2	6567.5	6174.0	5860.2	5867.7
60°	4764.4	4776.8	5100.6	5760.6	6445.5	6460.4	5847.8	5217.7	4779.3	4438.1	4485.4
62.5°	2512.9	2570.2	2699.7	3230.2	3823.0	3967.4	3596.3	3272.6	2894.0	2635.0	2659.9
65°	1329.9	1322.5	1384.7	1534.2	1825.6	1900.3	1850.5	1593.9	1461.9	1419.6	1422.1
67.5°	1080.9	1093.3	1085.9	1093.3	1113.3	1145.6	1138.2	1148.1	1155.6	1168.1	1165.6
70°	916.5	916.5	921.5	924.0	924.0	938.9	956.4	988.7	991.2	1003.7	1008.7
72.5°	722.3	717.3	724.7	742.2	744.7	757.1	782.0	801.9	809.4	809.4	794.5
75°	490.6	495.6	505.6	520.5	535.5	557.9	577.8	590.3	595.2	587.8	580.3
77.5°	276.4	281.4	288.9	311.3	328.7	348.7	371.1	383.5	396.0	398.5	383.5
80°	164.4	164.4	176.8	194.3	214.2	234.1	254.0	269.0	274.0	274.0	266.5
82.5°	99.6	102.1	112.1	129.5	146.9	159.4	176.8	189.3	199.2	196.8	191.8
85°	52.3	52.3	62.3	77.2	89.7	102.1	102.1	94.6	89.7	77.2	72.2
87.5°	17.4	14.9	19.9	19.9	17.4	19.9	19.9	22.4	22.4	22.4	22.4
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)