

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: P530303

Luminaire Tested: **GALN-SA5C-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22531 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

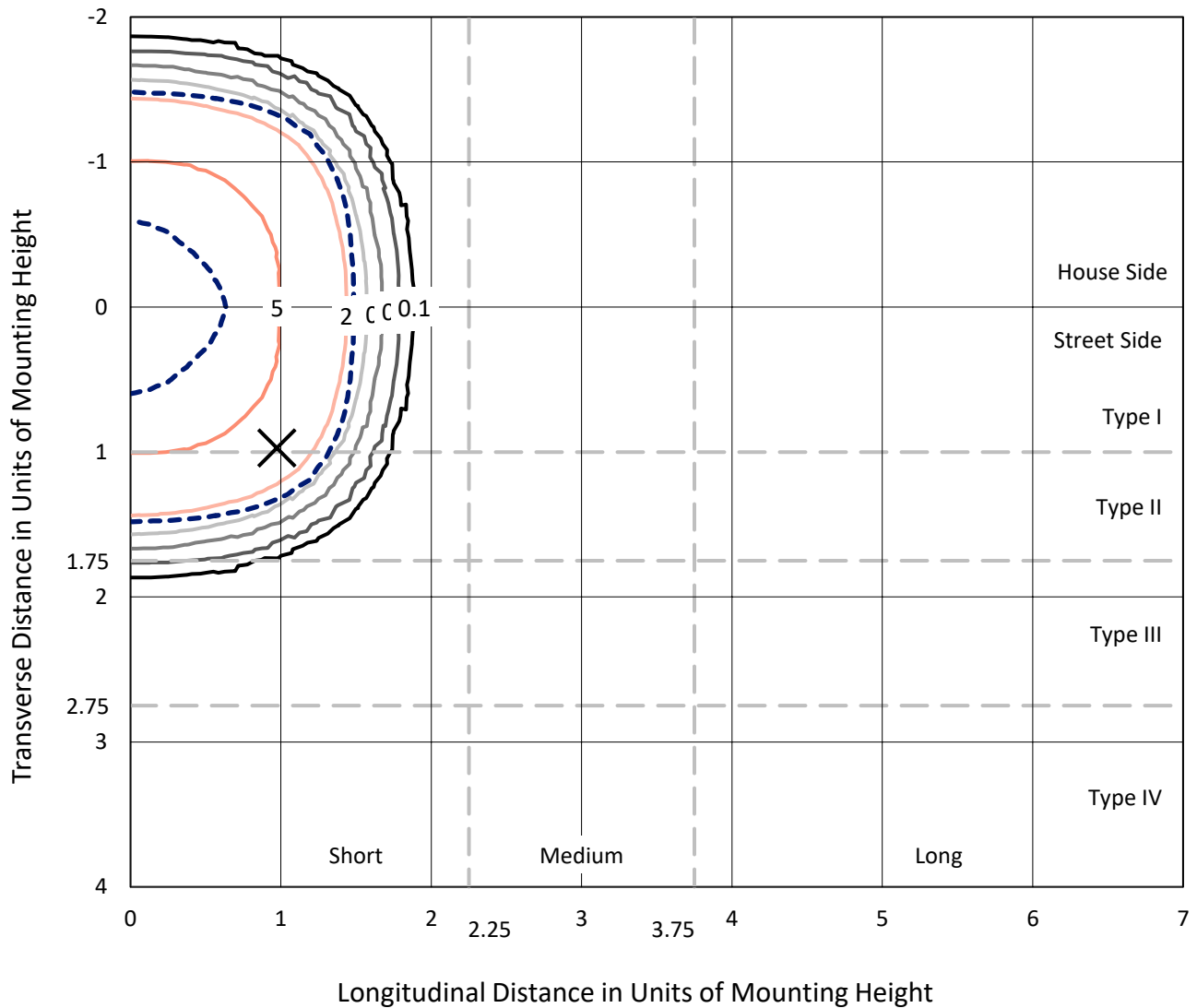
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

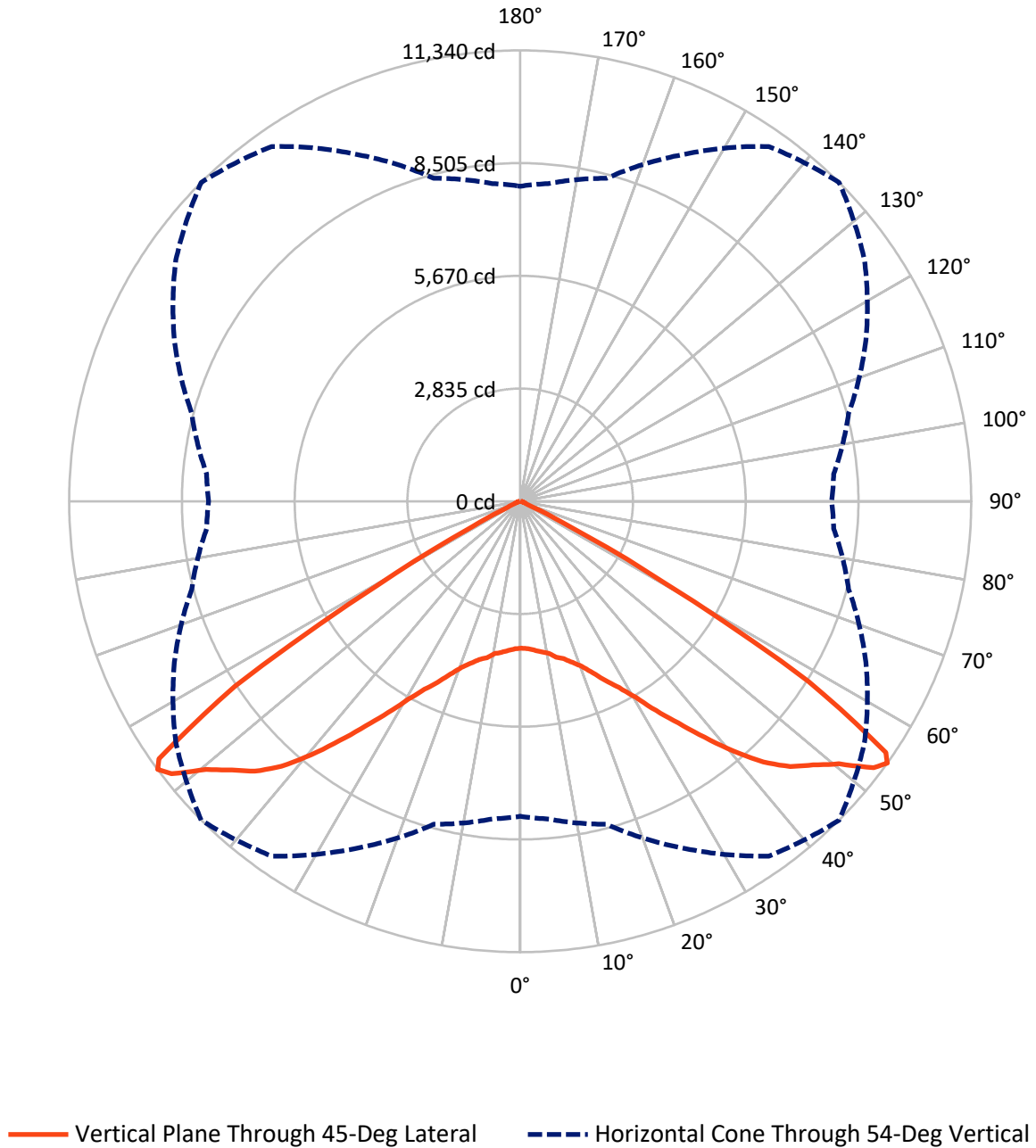
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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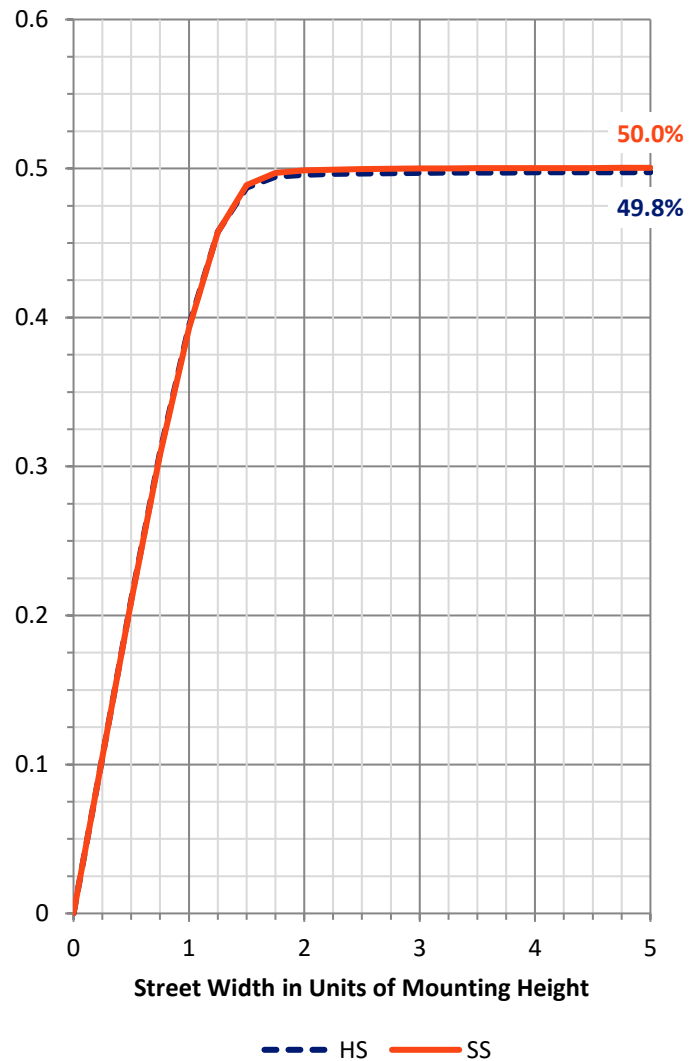
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11265.5	0.0	11265.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11265.5	0.0	11265.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22531.0	0.0	22531.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	1.6
10°-20°	1171.0	5.2
20°-30°	2295.0	10.2
30°-40°	4127.0	18.3
40°-50°	7064.6	31.4
50°-60°	6835.6	30.3
60°-70°	585.2	2.6
70°-80°	69.4	0.3
80°-90°	21.8	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°	22531.0	100.0
0°-180°	22531.0	100.0



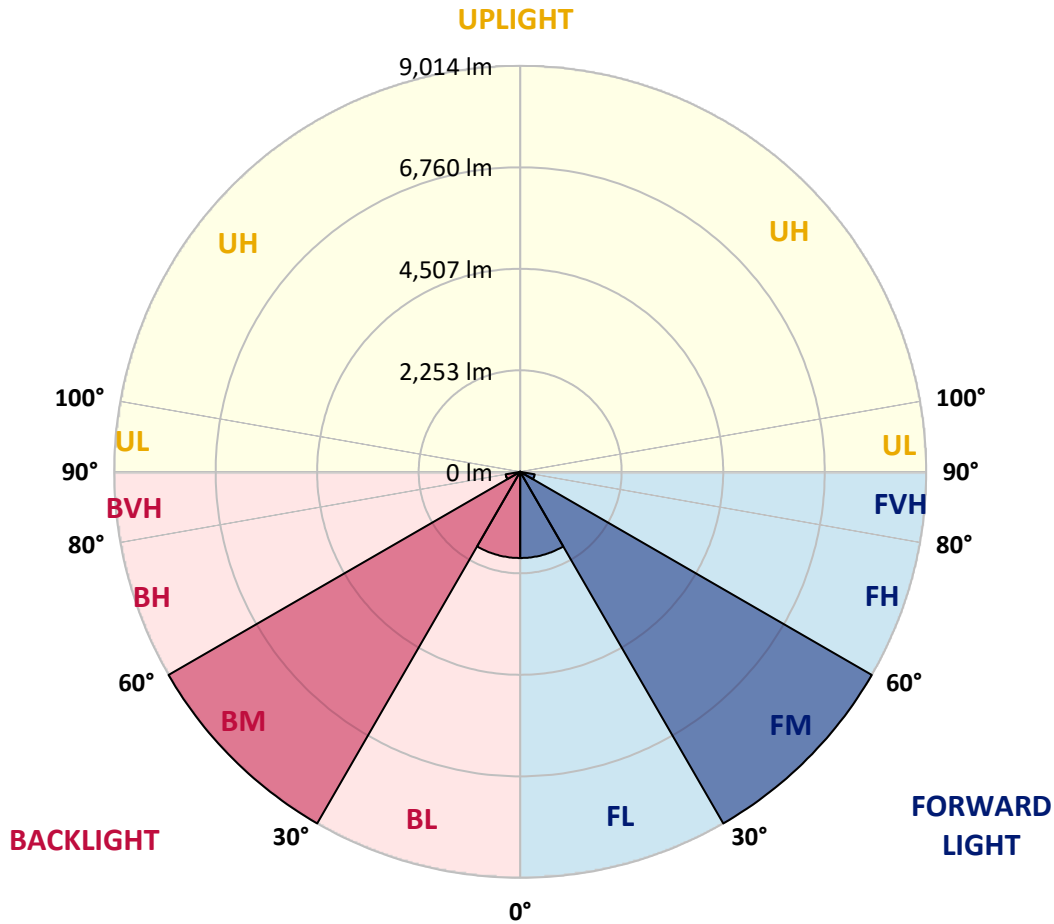
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1913.8	8.5			
FM (30°-60°)	9013.6	40.0			
FH (60°-80°)	327.3	1.5			G0/660
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	1913.8	8.5	B3/2500		
BM (30°-60°)	9013.6	40.0	B5		
BH (60°-80°)	327.3	1.5	B1/500		G0/660
BVH (80°-90°)	10.9	0.0			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°	3694.4	3694.4	3694.4	3694.4	3694.4	3694.4	3694.4	3694.4	3694.4	3694.4	3694.4
2.5°	3712.2	3733.6	3719.4	3730.1	3730.1	3712.2	3722.9	3680.1	3708.7	3687.2	3690.8
5°	3769.3	3765.8	3765.8	3769.3	3755.1	3762.2	3747.9	3733.6	3722.9	3708.7	3751.5
7.5°	3840.7	3840.7	3815.7	3822.9	3815.7	3826.5	3797.9	3769.3	3758.6	3747.9	3740.8
10°	3908.5	3901.4	3890.7	3922.8	3897.8	3883.6	3869.3	3851.4	3812.2	3797.9	3783.6
12.5°	4008.5	4004.9	3990.6	4022.8	4008.5	4022.8	3969.2	3922.8	3915.7	3869.3	3894.3
15°	4126.3	4158.4	4133.4	4133.4	4126.3	4108.4	4087.0	4065.6	4001.4	3983.5	3987.1
17.5°	4279.8	4269.1	4272.6	4272.6	4308.3	4261.9	4219.1	4165.5	4133.4	4122.7	4087.0
20°	4426.1	4440.4	4436.8	4461.8	4483.2	4433.3	4386.9	4379.7	4290.5	4304.8	4254.8
22.5°	4683.1	4672.4	4690.3	4708.1	4693.8	4686.7	4643.9	4590.3	4511.8	4476.1	4469.0
25°	4954.4	4936.6	4904.4	4947.3	4968.7	5000.8	4918.7	4890.1	4768.8	4715.2	4718.8
27.5°	5186.4	5211.4	5247.1	5264.9	5318.5	5307.8	5250.7	5157.9	5065.1	5004.4	4965.1
30°	5504.1	5518.4	5579.1	5604.0	5696.8	5721.8	5632.6	5525.5	5361.3	5282.8	5236.4
32.5°	5796.8	5896.7	5893.2	6018.1	6168.0	6271.5	6110.9	5946.7	5782.5	5689.7	5607.6
35°	6271.5	6253.7	6357.2	6489.3	6732.0	6849.8	6674.9	6485.7	6235.8	6085.9	6021.7
37.5°	6714.1	6721.3	6860.5	7071.1	7349.5	7531.5	7378.1	7067.5	6810.5	6617.8	6528.5
40°	7356.6	7370.9	7513.7	7752.8	8067.0	8263.3	8084.8	7770.7	7428.0	7278.1	7278.1
42.5°	8109.8	8170.5	8263.3	8470.3	8752.3	8970.0	8809.4	8563.1	8216.9	8024.1	8052.7
45°	8884.4	8912.9	8973.6	9280.6	9412.6	9519.7	9369.8	9255.6	9023.6	8788.0	8748.7
47.5°	9609.0	9619.7	9798.1	9894.5	9998.0	9908.8	10005.2	9855.3	9594.7	9366.2	9319.8
50°	9930.2	9912.4	10165.8	10458.5	10537.0	10380.0	10297.9	10197.9	9801.7	9526.9	9405.5
52.5°	8995.0	9098.5	9569.7	10383.5	10997.5	11129.5	10651.2	10190.8	9451.9	8916.5	8834.4
54°	7924.2	8020.6	8409.6	9616.1	10894.0	11340.1	10569.1	9591.1	8548.8	7913.5	7831.4
55°	6864.1	6757.0	7463.7	8695.2	10408.5	11154.5	10244.3	8816.5	7624.3	7042.5	6928.3
57.5°	3715.8	3733.6	4329.7	5493.4	7313.8	8552.4	7553.0	5964.6	4504.6	3851.4	3794.3
60°	1177.9	1206.5	1467.0	2220.2	3494.5	4172.7	3576.6	2395.1	1656.2	1327.8	1274.3
62.5°	367.7	381.9	417.6	621.1	956.6	1367.1	1070.8	642.5	478.3	439.0	446.2
65°	224.9	224.9	228.4	242.7	285.6	332.0	321.3	282.0	271.3	264.1	260.6
67.5°	146.3	142.8	149.9	160.6	167.8	171.3	182.0	192.8	189.2	182.0	182.0
70°	89.2	85.7	92.8	107.1	110.7	117.8	128.5	142.8	139.2	132.1	135.6
72.5°	50.0	50.0	53.5	64.3	75.0	82.1	92.8	103.5	107.1	103.5	103.5
75°	17.8	21.4	28.6	39.3	46.4	57.1	67.8	78.5	89.2	82.1	78.5
77.5°	7.1	7.1	14.3	25.0	35.7	46.4	64.3	75.0	82.1	75.0	67.8
80°	3.6	3.6	10.7	21.4	32.1	42.8	53.5	64.3	67.8	60.7	53.5
82.5°	3.6	3.6	10.7	21.4	32.1	39.3	57.1	64.3	71.4	64.3	53.5
85°	0.0	3.6	10.7	21.4	28.6	32.1	32.1	21.4	17.8	10.7	10.7
87.5°	0.0	0.0	3.6	0.0	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)