

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: P530070

Luminaire Tested: **GALN-SA5B-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23910 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

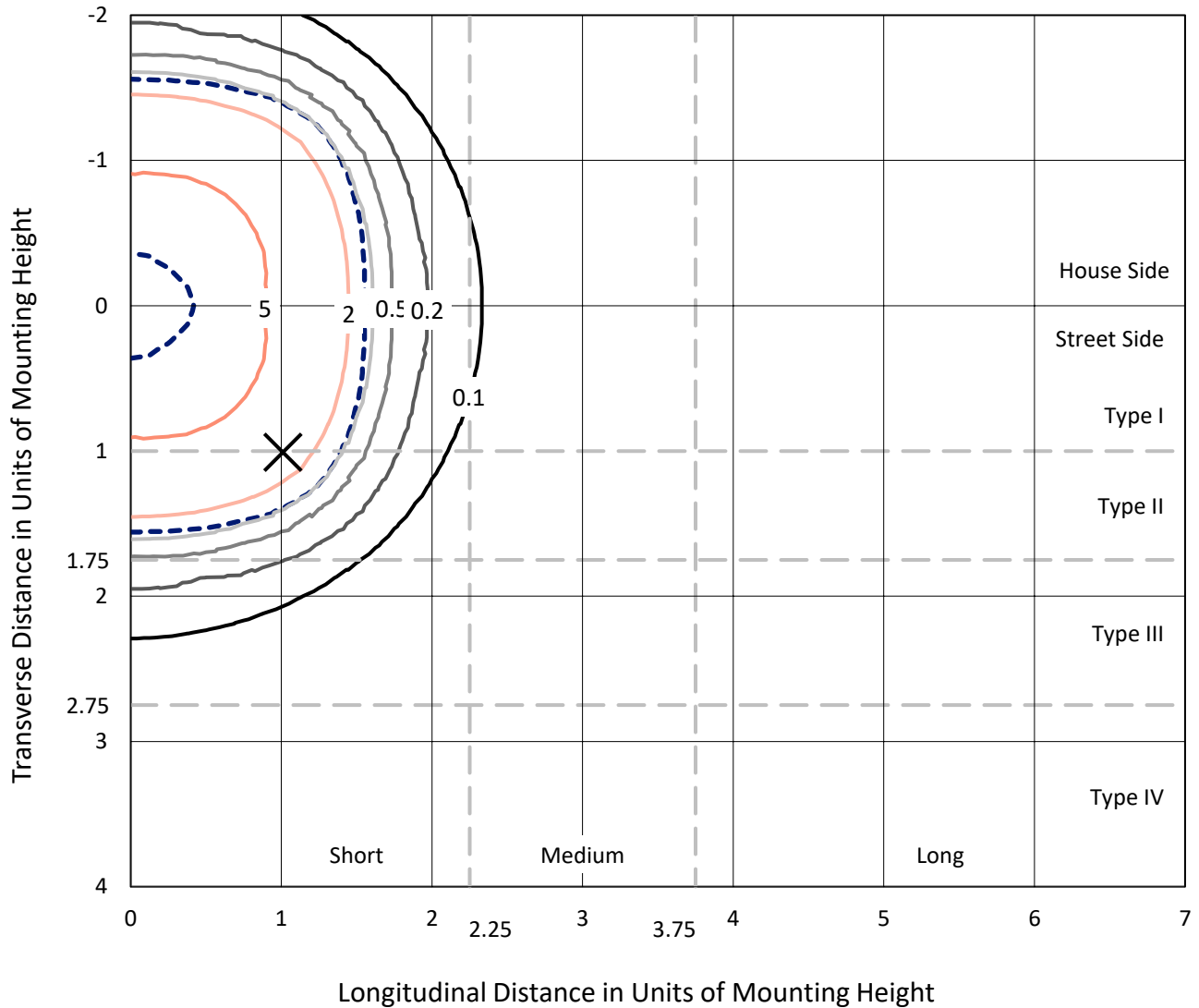
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

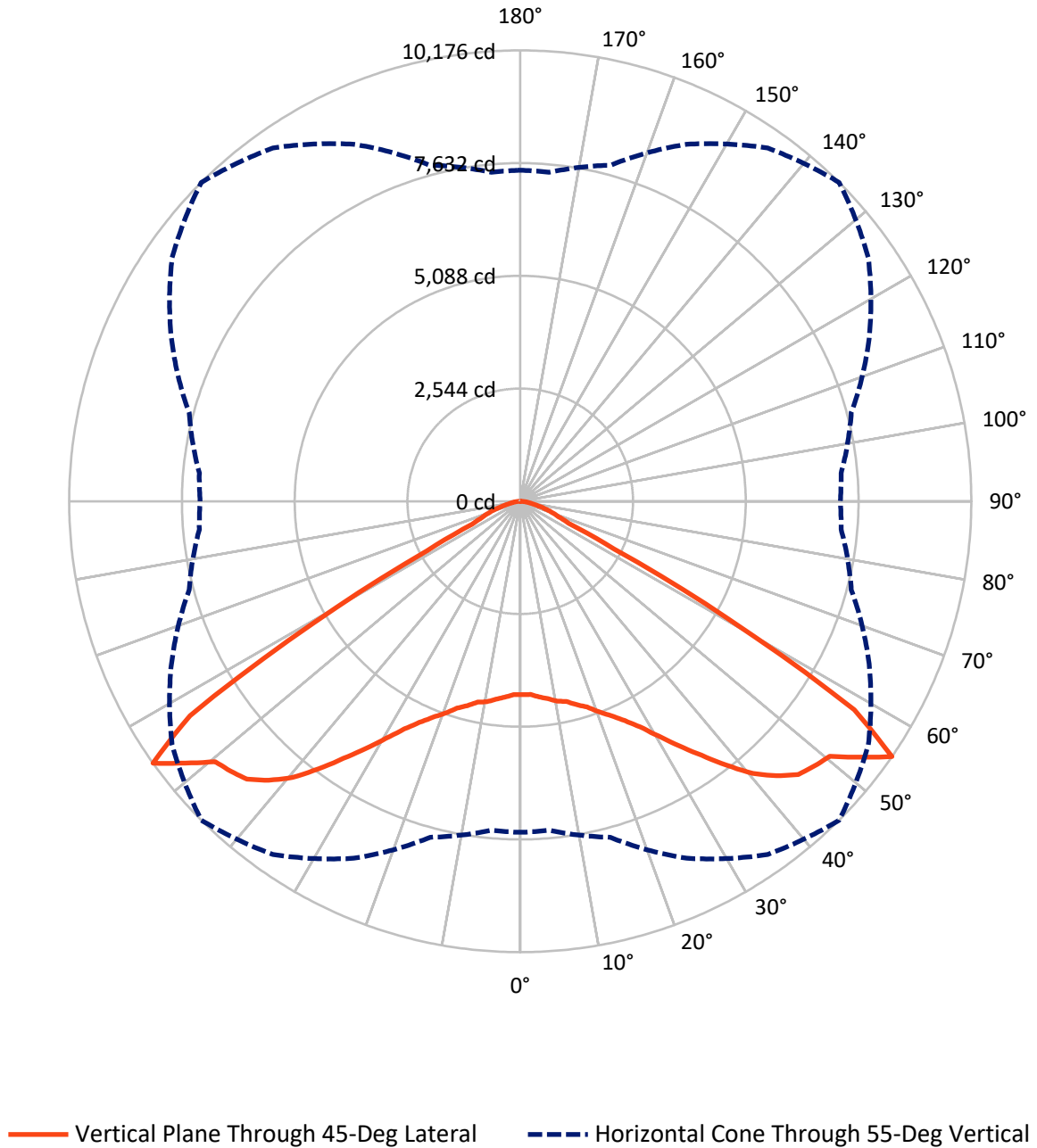
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	11955.0	0.0	11955.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11955.0	0.0	11955.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23910.0	0.0	23910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.5	1.8
10°-20°	1351.3	5.7
20°-30°	2519.7	10.5
30°-40°	4218.9	17.6
40°-50°	6564.9	27.5
50°-60°	6816.4	28.5
60°-70°	1445.5	6.0
70°-80°	476.1	2.0
80°-90°	90.7	0.4
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°	23910.0	100.0
0°-180°	23910.0	100.0

Coefficient of Utilization

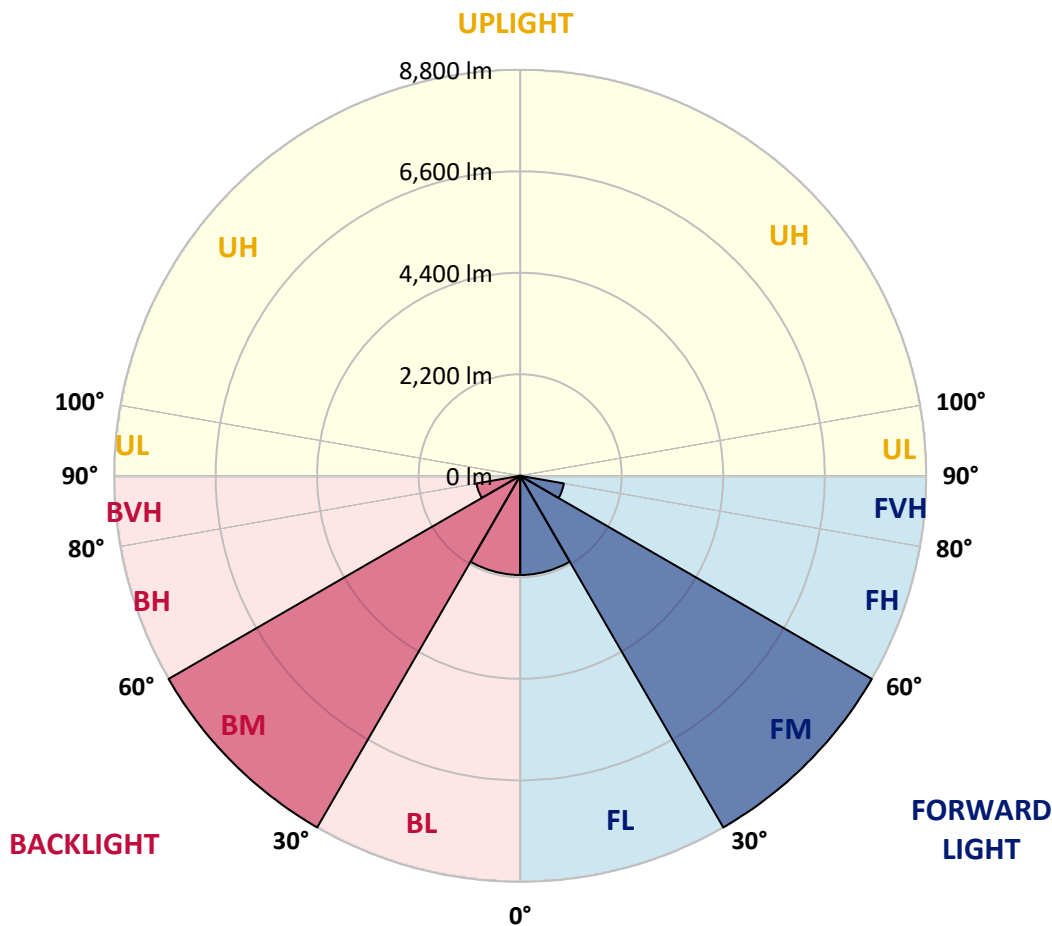


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.8	9.0			
FM (30°-60°)	8800.1	36.8			
FH (60°-80°)	960.8	4.0			G1/1800
FVH (80°-90°)	45.3	0.2			G1/100
BL (0°-30°)	2148.8	9.0	B3/2500		
BM (30°-60°)	8800.1	36.8	B5		
BH (60°-80°)	960.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	45.3	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6
2.5°	4417.6	4397.4	4362.7	4388.7	4408.9	4365.6	4382.9	4391.6	4385.8	4362.7	4371.4
5°	4481.2	4469.6	4440.7	4461.0	4435.0	4435.0	4417.6	4394.5	4429.2	4423.4	4437.8
7.5°	4481.2	4466.7	4524.5	4487.0	4498.5	4498.5	4469.6	4446.5	4463.8	4437.8	4423.4
10°	4570.7	4591.0	4565.0	4573.6	4567.9	4588.1	4544.7	4530.3	4515.8	4507.2	4489.8
12.5°	4677.6	4663.2	4671.9	4666.1	4686.3	4634.3	4608.3	4576.5	4602.5	4565.0	4591.0
15°	4764.3	4755.7	4764.3	4787.4	4767.2	4764.3	4718.1	4686.3	4645.9	4654.5	4614.1
17.5°	4882.8	4874.1	4877.0	4897.2	4894.3	4879.9	4845.2	4784.5	4770.1	4747.0	4721.0
20°	5059.0	5044.6	5038.8	5047.5	5061.9	5073.5	5004.1	4981.0	4931.9	4894.3	4851.0
22.5°	5209.3	5203.5	5226.6	5189.0	5220.8	5255.5	5189.0	5177.5	5056.1	5035.9	4989.7
25°	5417.3	5408.6	5394.2	5449.1	5486.6	5483.7	5420.2	5356.6	5264.2	5241.0	5241.0
27.5°	5636.9	5587.7	5662.9	5677.3	5743.8	5764.0	5709.1	5616.6	5530.0	5480.8	5492.4
30°	5911.3	5865.1	5882.4	5986.5	6073.1	6148.3	6009.6	5873.8	5752.4	5665.8	5651.3
32.5°	6185.8	6139.6	6191.6	6292.7	6466.1	6578.8	6443.0	6206.0	6064.5	5937.3	5963.3
35°	6408.3	6443.0	6526.7	6679.9	6859.0	7041.0	6824.3	6642.3	6440.1	6298.5	6318.7
37.5°	6766.6	6873.5	6939.9	7116.1	7370.4	7558.2	7332.8	7095.9	6879.2	6694.3	6630.8
40°	7234.6	7306.8	7382.0	7590.0	7890.5	8078.3	7864.5	7555.3	7341.5	7150.8	7142.1
42.5°	7748.9	7818.2	7896.2	8150.5	8329.6	8471.2	8274.7	8110.0	7873.1	7722.9	7714.2
45°	8347.0	8297.8	8384.5	8552.1	8702.3	8794.8	8667.7	8586.8	8416.3	8277.6	8263.2
47.5°	8745.7	8702.3	8858.3	9008.6	9031.7	8930.6	8956.6	9031.7	8852.6	8624.3	8696.5
50°	8976.8	8976.8	9080.8	9219.5	9176.2	9046.1	9251.3	9257.1	9077.9	8875.7	8875.7
52.5°	8575.2	8664.8	8959.5	9413.1	9557.5	9595.1	9548.9	9352.4	8884.3	8471.2	8451.0
55°	7471.5	7451.3	7850.0	8890.1	9730.9	10175.8	9586.4	8682.1	7731.5	7266.4	7220.2
57.5°	4859.7	4882.8	5478.0	6538.3	8055.1	8884.3	7890.5	6619.2	5478.0	4836.6	4897.2
60°	2187.1	2265.1	2626.3	3417.9	4721.0	5397.1	4732.5	3591.3	2756.3	2392.3	2424.1
62.5°	1256.8	1271.3	1285.7	1525.5	2010.9	2377.8	2088.9	1612.2	1421.5	1357.9	1357.9
65°	1060.3	1051.7	1054.6	1074.8	1126.8	1201.9	1170.1	1126.8	1132.6	1126.8	1118.1
67.5°	901.4	913.0	904.3	918.8	921.7	933.2	953.4	970.8	973.7	979.4	973.7
70°	739.6	742.5	748.3	759.9	762.8	771.4	800.3	814.8	823.4	823.4	835.0
72.5°	566.3	563.4	569.2	580.7	595.2	598.1	624.1	644.3	655.9	641.4	644.3
75°	372.7	375.6	384.3	392.9	413.2	433.4	442.1	462.3	465.2	470.9	456.5
77.5°	222.5	228.2	236.9	254.3	271.6	288.9	309.1	323.6	329.4	323.6	306.3
80°	144.5	144.5	156.0	170.5	190.7	205.1	216.7	228.2	236.9	228.2	222.5
82.5°	89.6	89.6	104.0	121.3	135.8	144.5	161.8	176.2	184.9	179.1	170.5
85°	46.2	49.1	60.7	75.1	86.7	92.5	89.6	80.9	72.2	69.3	63.6
87.5°	14.4	14.4	17.3	17.3	14.4	14.4	17.3	14.4	17.3	17.3	17.3
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)