

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: P530410

Luminaire Tested: **GALN-SA5C-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21957 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

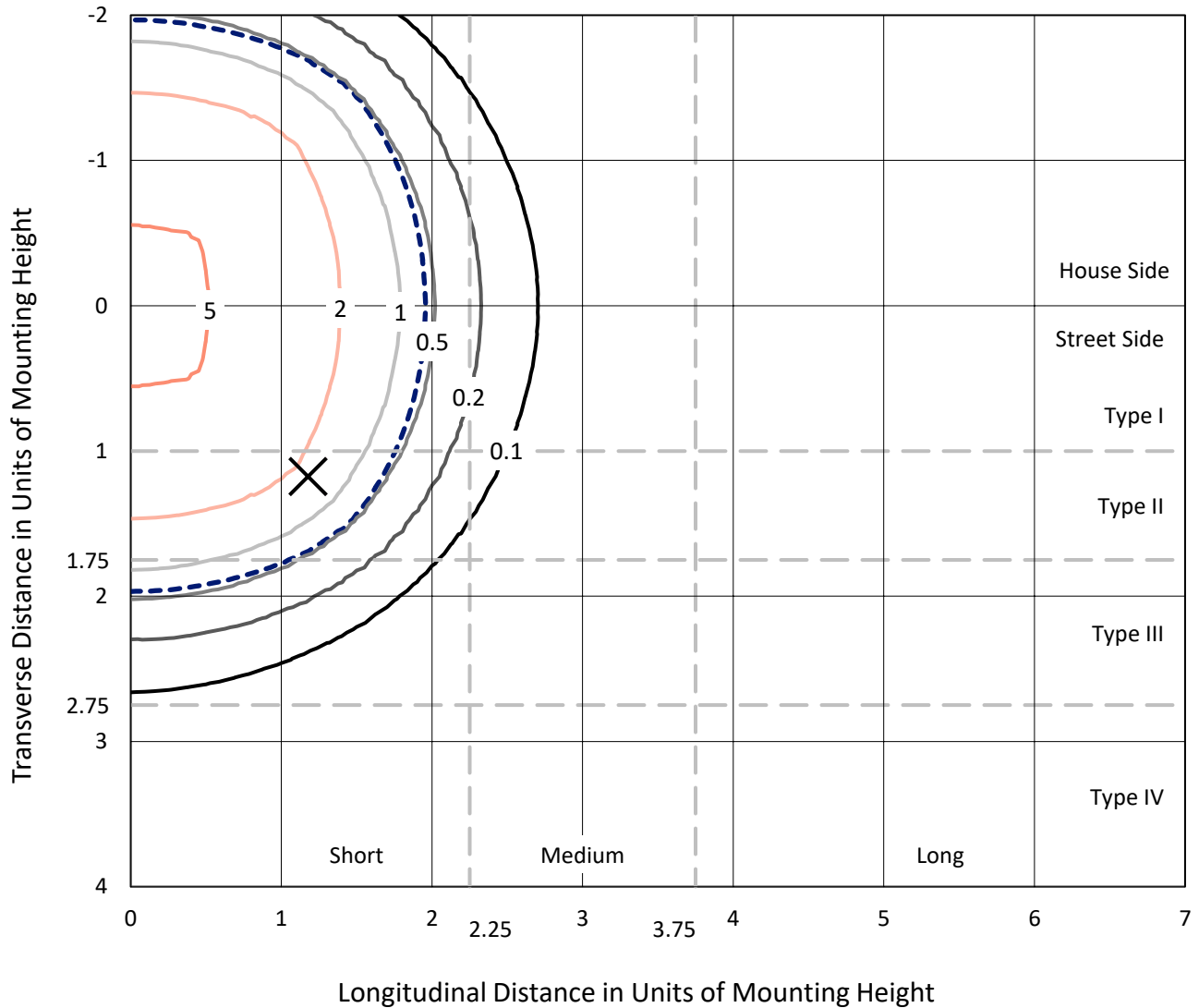
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

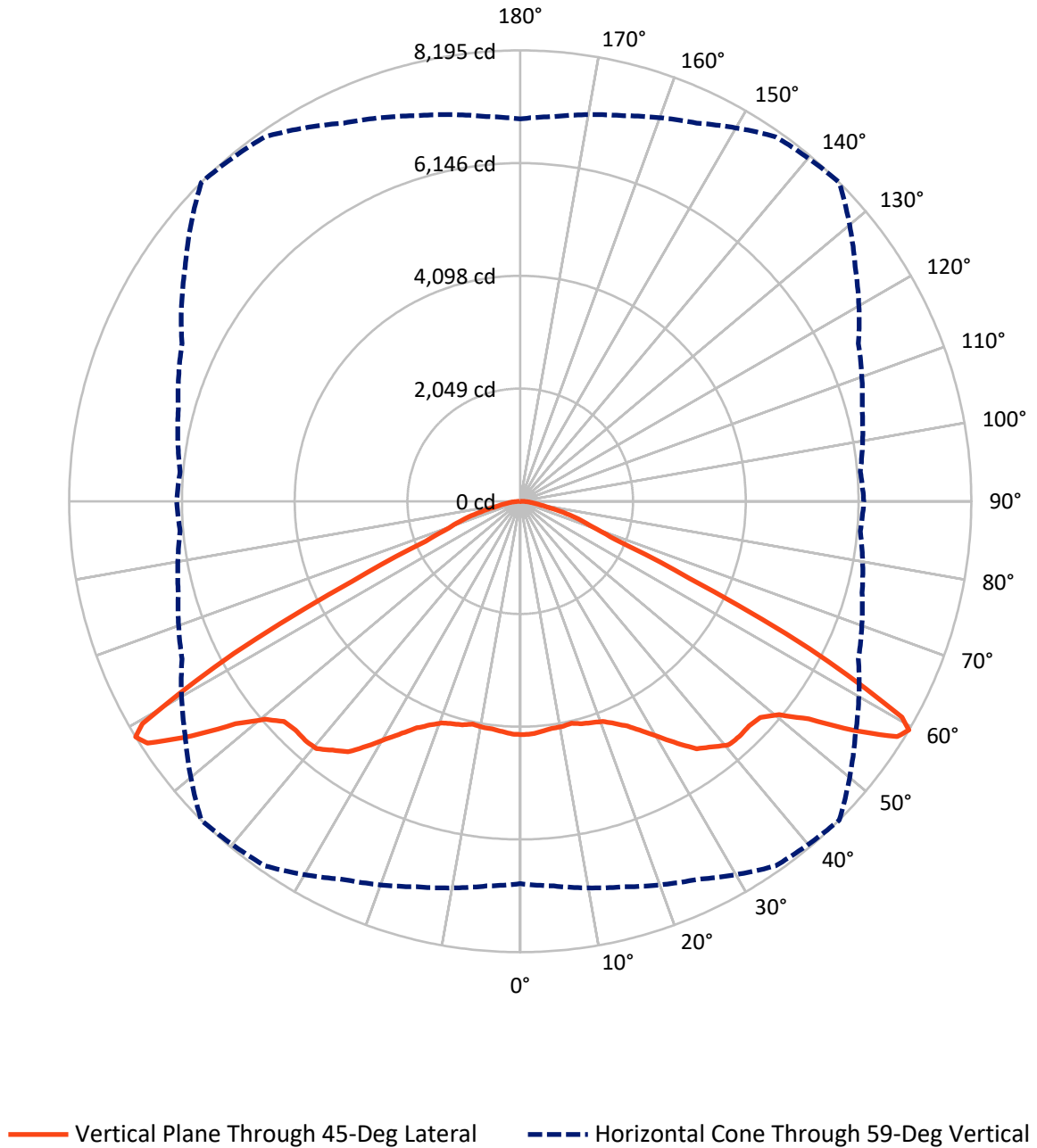
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	10978.5	0.0	10978.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10978.5	0.0	10978.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21957.0	0.0	21957.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	1.8
10°-20°	1188.9	5.4
20°-30°	2076.0	9.5
30°-40°	3315.6	15.1
40°-50°	4516.6	20.6
50°-60°	6107.6	27.8
60°-70°	3349.4	15.3
70°-80°	856.9	3.9
80°-90°	146.1	0.7
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°	21957.0	100.0
0°-180°	21957.0	100.0

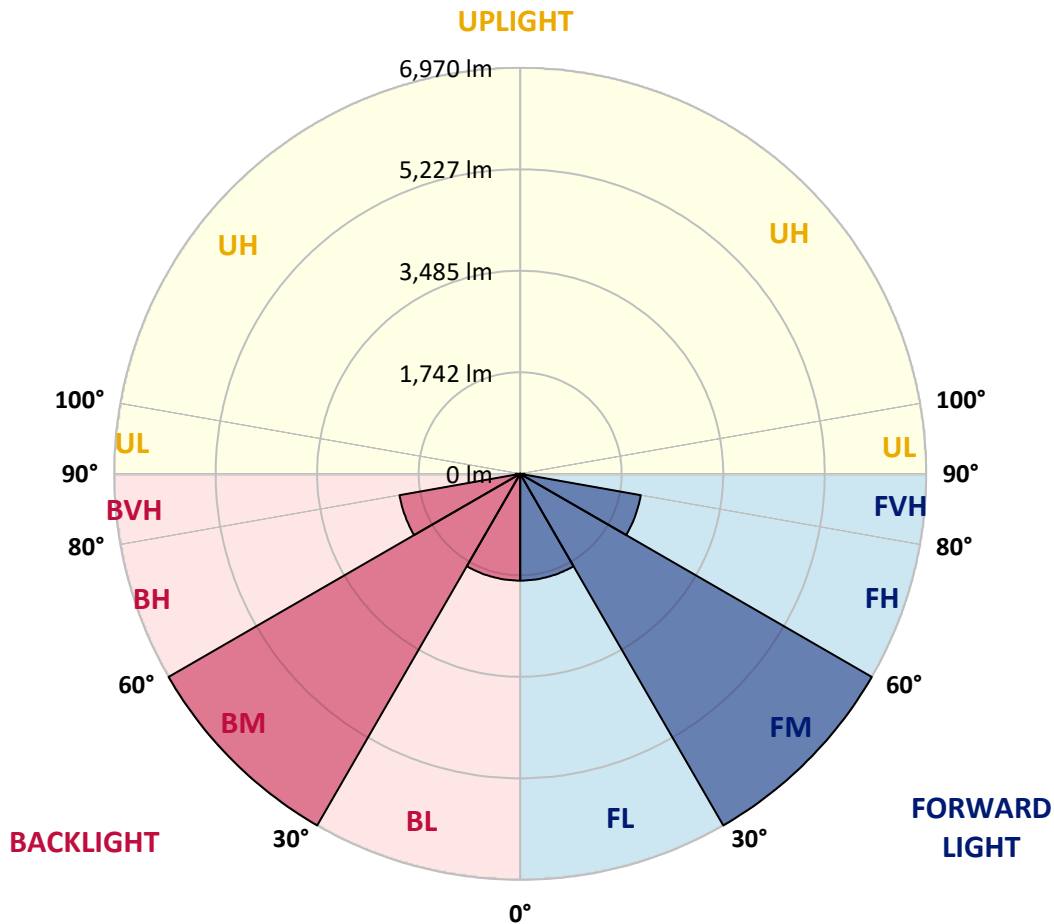


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.4	8.3			
FM (30°-60°)	6969.9	31.7			
FH (60°-80°)	2103.2	9.6			G2/5000
FVH (80°-90°)	73.1	0.3			G1/100
BL (0°-30°)	1832.4	8.3	B3/2500		
BM (30°-60°)	6969.9	31.7	B4/8500		
BH (60°-80°)	2103.2	9.6	B3/2500		G2/5000
BVH (80°-90°)	73.1	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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4241.0	4241.0	4241.0	4241.0	4241.0	4241.0	4241.0	4241.0	4241.0	4241.0	4241.0
2.5°	4215.7	4246.7	4224.2	4243.9	4241.0	4232.6	4218.5	4210.1	4198.8	4215.7	4187.6
5°	4198.8	4224.2	4249.5	4215.7	4215.7	4198.8	4190.4	4173.5	4173.5	4170.7	4167.9
7.5°	4227.0	4201.6	4190.4	4196.0	4201.6	4165.1	4190.4	4156.6	4128.5	4148.2	4170.7
10°	4201.6	4212.9	4170.7	4190.4	4159.4	4165.1	4148.2	4170.7	4139.7	4139.7	4139.7
12.5°	4227.0	4196.0	4210.1	4196.0	4187.6	4139.7	4162.2	4136.9	4134.1	4162.2	4136.9
15°	4277.6	4227.0	4215.7	4187.6	4196.0	4196.0	4173.5	4176.3	4145.4	4162.2	4167.9
17.5°	4260.7	4232.6	4224.2	4190.4	4218.5	4227.0	4184.8	4156.6	4176.3	4173.5	4170.7
20°	4274.8	4286.1	4277.6	4283.3	4294.5	4272.0	4232.6	4193.2	4167.9	4204.5	4201.6
22.5°	4364.9	4353.6	4348.0	4342.4	4362.1	4384.6	4331.1	4269.2	4269.2	4294.5	4305.8
25°	4438.0	4435.2	4432.4	4457.7	4525.3	4525.3	4457.7	4378.9	4359.2	4376.1	4362.1
27.5°	4545.0	4575.9	4564.7	4609.7	4708.2	4730.7	4640.7	4547.8	4494.3	4474.6	4500.0
30°	4789.8	4753.2	4761.7	4809.5	4896.8	4969.9	4832.0	4733.5	4660.4	4657.5	4668.8
32.5°	4953.0	4981.2	5006.5	5051.5	5189.4	5245.7	5079.7	4919.3	4874.2	4848.9	4857.4
35°	5279.5	5254.2	5248.5	5293.6	5431.5	5524.3	5316.1	5175.4	5116.3	5172.6	5172.6
37.5°	5589.1	5518.7	5465.2	5524.3	5651.0	5662.2	5484.9	5408.9	5378.0	5442.7	5439.9
40°	5735.4	5729.8	5605.9	5639.7	5808.6	5825.5	5659.4	5569.4	5563.7	5648.2	5732.6
42.5°	5887.4	5833.9	5710.1	5732.6	5836.7	5842.3	5684.7	5659.4	5721.3	5802.9	5808.6
45°	5912.7	5867.7	5788.9	5732.6	5808.6	5825.5	5732.6	5749.5	5755.1	5853.6	5853.6
47.5°	5963.4	5957.7	5912.7	5870.5	5884.6	5870.5	5811.4	5836.7	5921.1	5969.0	5946.5
50°	6104.1	6045.0	6090.0	6053.4	6056.2	6095.6	6042.1	6067.5	6050.6	6008.4	5980.2
52.5°	6413.6	6385.5	6424.9	6450.2	6478.4	6568.4	6506.5	6371.4	6244.8	6132.2	6129.4
55°	6866.7	6886.4	6962.4	7091.9	7201.6	7345.1	7046.8	6723.2	6520.6	6343.3	6354.5
57.5°	7294.5	7280.4	7384.5	7680.0	8000.9	8074.0	7488.7	7027.1	6697.9	6585.3	6537.5
59°	6951.1	7018.7	7255.1	7584.3	8088.1	8195.0	7429.6	6779.5	6430.5	6202.6	6242.0
60°	6410.8	6436.1	6647.2	7105.9	7787.0	7969.9	7032.8	6396.7	5932.4	5800.1	5859.2
62.5°	4530.9	4511.2	4663.2	5037.5	5648.2	5895.8	5228.8	4781.4	4488.7	4342.4	4376.1
65°	2409.0	2499.0	2560.9	2794.5	3118.2	3379.9	3104.1	2909.9	2746.7	2625.7	2622.9
67.5°	1626.6	1615.4	1629.4	1682.9	1792.7	1865.8	1860.2	1761.7	1747.6	1725.1	1750.5
70°	1370.5	1364.9	1339.6	1339.6	1362.1	1379.0	1398.7	1409.9	1432.4	1460.6	1457.8
72.5°	1111.6	1097.5	1080.7	1072.2	1100.4	1108.8	1134.1	1145.4	1165.1	1162.3	1187.6
75°	734.5	734.5	754.2	776.7	785.2	802.1	804.9	838.6	838.6	844.3	821.8
77.5°	410.9	399.6	413.7	436.2	455.9	486.9	517.8	543.1	557.2	551.6	551.6
80°	239.2	239.2	253.3	278.6	303.9	332.1	354.6	374.3	388.4	382.7	371.5
82.5°	149.2	149.2	163.2	188.6	208.3	225.1	256.1	281.4	298.3	292.7	278.6
85°	76.0	76.0	92.9	109.8	135.1	146.3	143.5	132.3	129.5	115.4	115.4
87.5°	19.7	19.7	28.1	31.0	25.3	28.1	28.1	28.1	28.1	28.1	31.0
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)