

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: P529314

Luminaire Tested: **GALN-SA4C-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529314
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-SA4C-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 20530 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

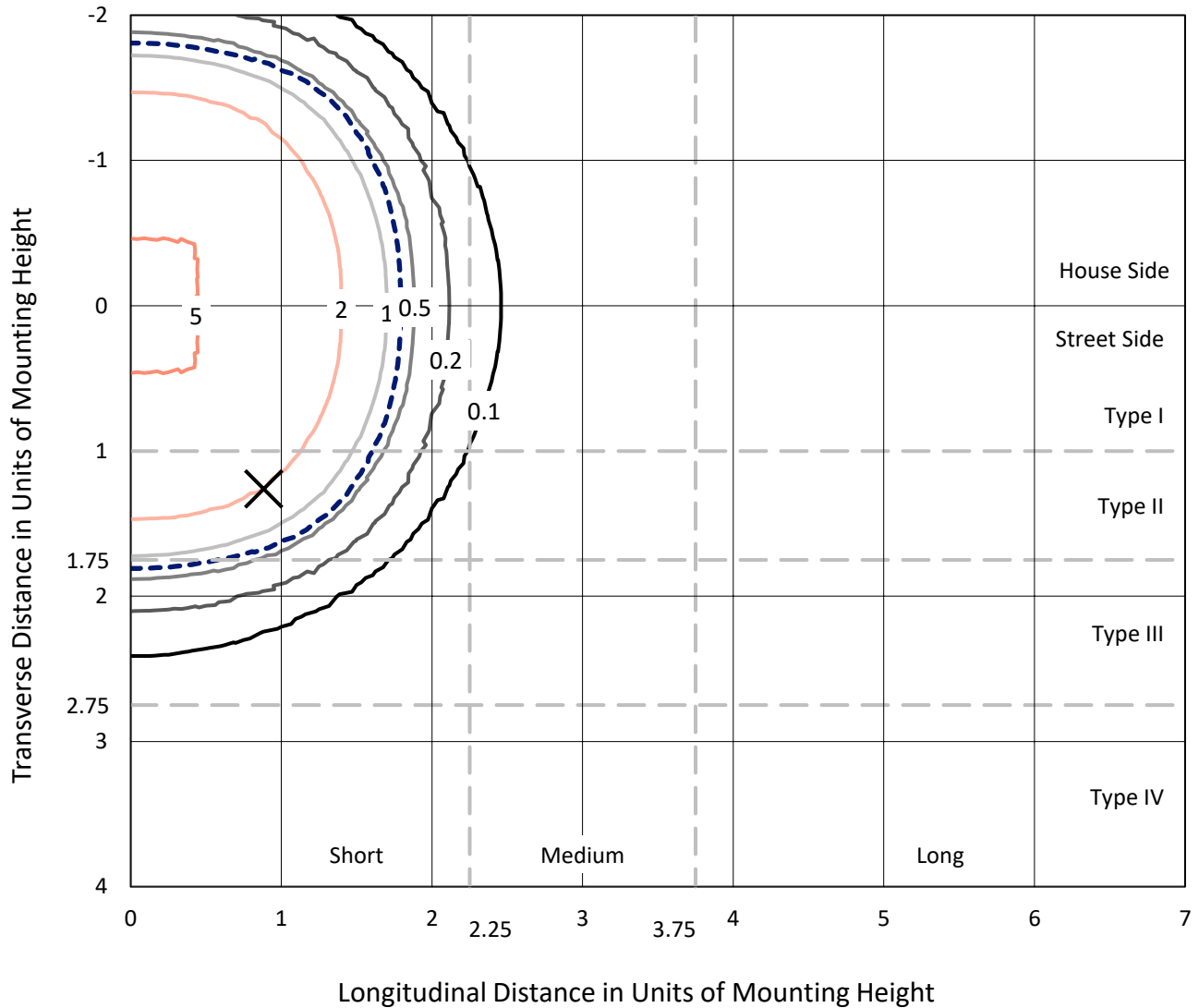
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

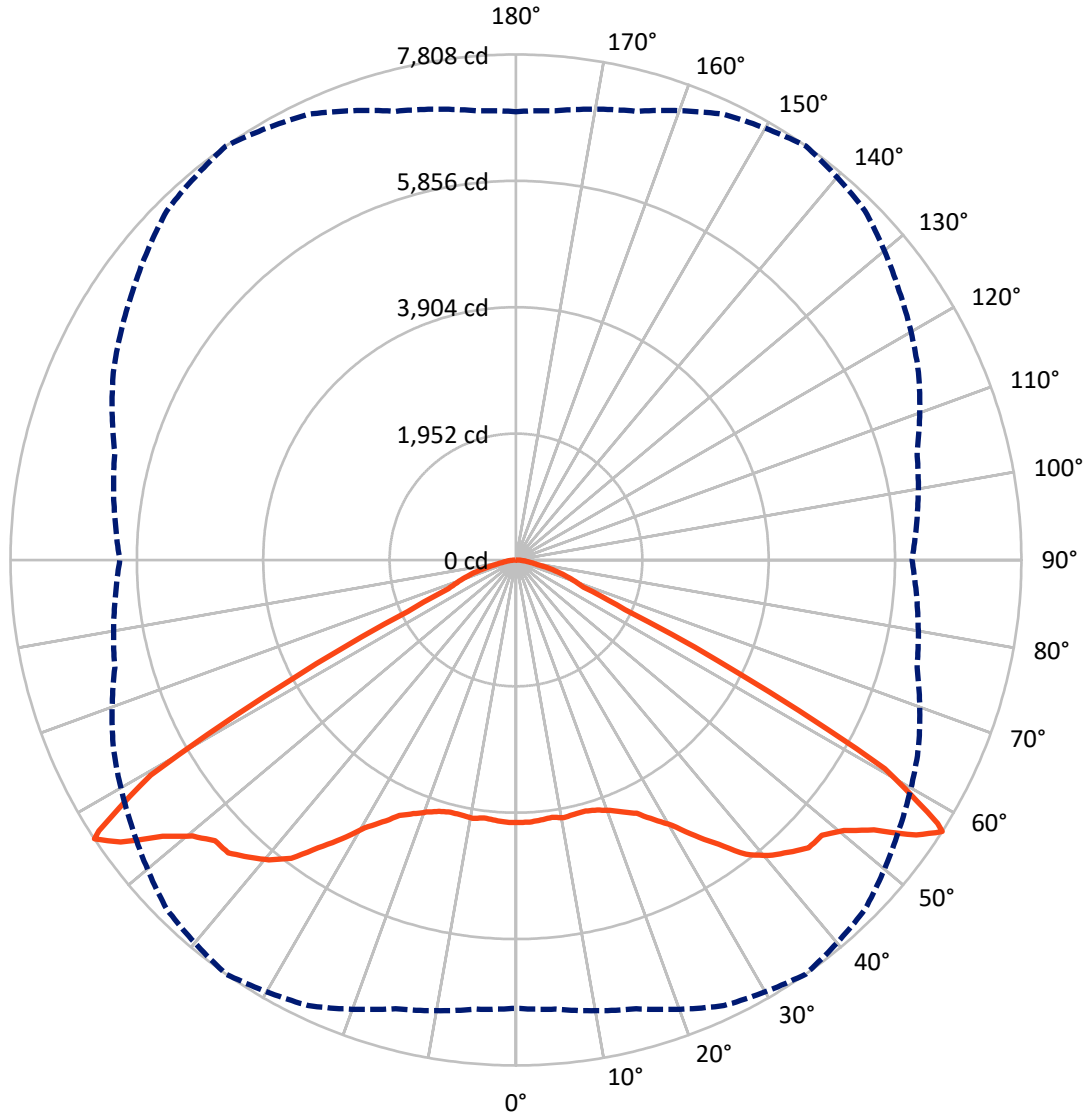
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	10265.0	0.0	10265.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10265.0	0.0	10265.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20530.0	0.0	20530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	1.9
10°-20°	1138.4	5.5
20°-30°	1988.3	9.7
30°-40°	3257.8	15.9
40°-50°	4776.7	23.3
50°-60°	6016.7	29.3
60°-70°	2262.8	11.0
70°-80°	601.7	2.9
80°-90°	103.2	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°	20530.0	100.0
0°-180°	20530.0	100.0

Coefficient of Utilization



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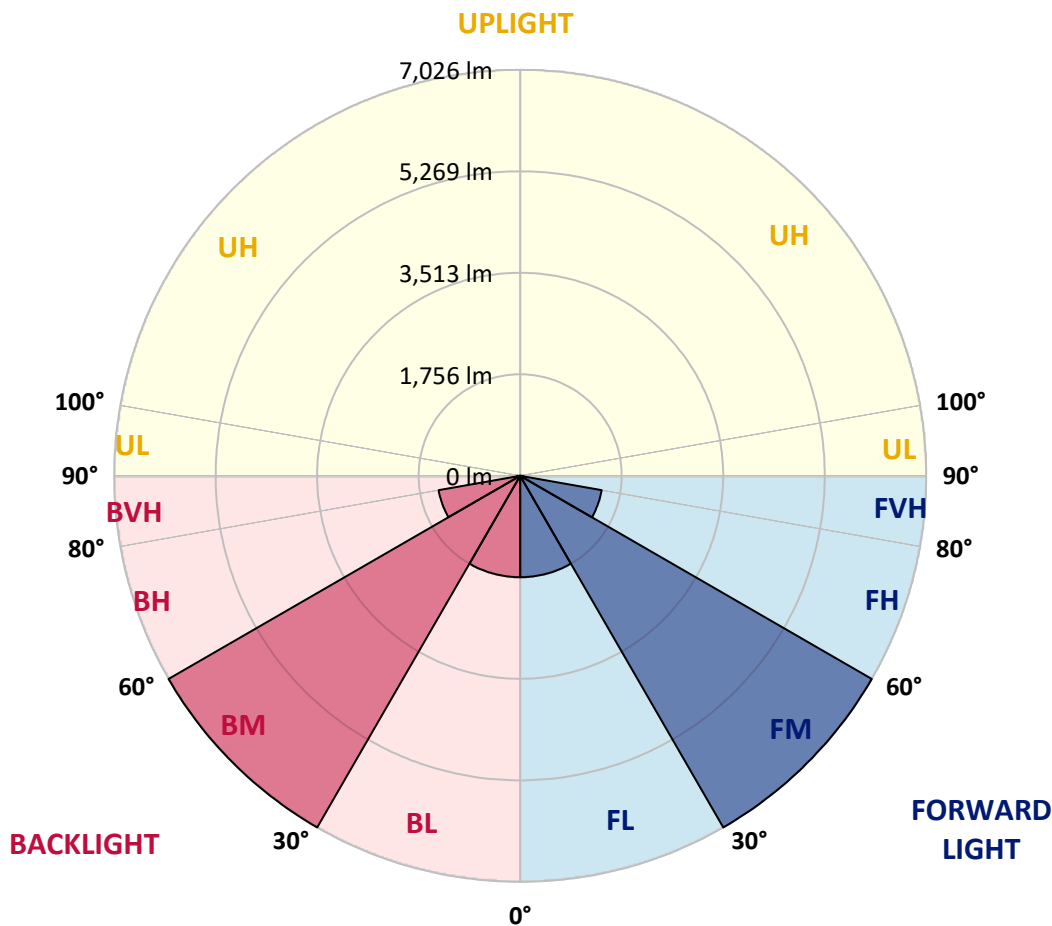
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.5	8.6			
FM (30°-60°)	7025.6	34.2			
FH (60°-80°)	1432.2	7.0			G1/1800
FVH (80°-90°)	51.6	0.3			G1/100
BL (0°-30°)	1755.5	8.6	B3/2500		
BM (30°-60°)	7025.6	34.2	B4/8500		
BH (60°-80°)	1432.2	7.0	B3/2500		G1/1800
BVH (80°-90°)	51.6	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°	4054.5	4054.5	4054.5	4054.5	4054.5	4054.5	4054.5	4054.5	4054.5	4054.5	4054.5
2.5°	4034.3	4074.8	4057.1	4046.9	4054.5	4041.9	4021.6	4044.4	4039.3	4019.1	4011.5
5°	4024.2	4054.5	4034.3	4054.5	4034.3	4069.7	4059.6	4021.6	4067.2	4024.2	4039.3
7.5°	4016.6	4026.7	4031.8	4021.6	4014.1	4057.1	4034.3	4016.6	3991.3	3983.7	3996.3
10°	3998.9	4024.2	3986.2	4036.8	4046.9	4016.6	4016.6	3983.7	3963.5	3950.8	3993.8
12.5°	4044.4	4001.4	3996.3	4021.6	4029.2	4041.9	4006.5	3988.8	3950.8	3955.9	3948.3
15°	3991.3	4009.0	4011.5	4016.6	4024.2	4054.5	4021.6	3983.7	3968.5	3915.4	3920.5
17.5°	4011.5	3993.8	4011.5	4069.7	4059.6	4082.3	4046.9	3988.8	3953.4	3923.0	3963.5
20°	4046.9	4039.3	4046.9	4117.8	4130.4	4150.6	4120.3	4067.2	3998.9	3963.5	3983.7
22.5°	4084.9	4079.8	4084.9	4153.2	4226.5	4251.8	4221.5	4097.5	4062.1	3996.3	3973.6
25°	4153.2	4158.2	4211.3	4287.2	4335.3	4383.3	4327.7	4239.2	4125.3	4084.9	4036.8
27.5°	4304.9	4317.6	4347.9	4459.2	4542.7	4585.7	4507.3	4385.9	4315.0	4231.6	4218.9
30°	4492.1	4492.1	4545.2	4641.3	4755.1	4820.9	4724.8	4580.6	4494.6	4449.1	4421.3
32.5°	4740.0	4712.2	4732.4	4901.9	5078.9	5134.5	5005.6	4828.5	4691.9	4631.2	4611.0
35°	4952.4	4970.1	5015.7	5197.8	5395.1	5524.1	5321.7	5091.6	4952.4	4896.8	4886.7
37.5°	5228.1	5258.5	5281.3	5531.7	5769.4	5817.5	5622.7	5438.1	5268.6	5223.1	5197.8
40°	5617.7	5597.4	5605.0	5789.6	6004.6	6035.0	5842.8	5711.2	5572.1	5544.3	5544.3
42.5°	5938.9	5916.1	5941.4	6009.7	6174.1	6151.3	6045.1	5949.0	5890.8	5860.5	5890.8
45°	6133.6	6128.6	6174.1	6224.7	6341.0	6265.2	6181.7	6196.9	6141.2	6090.6	6088.1
47.5°	6346.1	6313.2	6368.9	6444.7	6356.2	6320.8	6315.7	6348.6	6330.9	6242.4	6214.6
50°	6449.8	6437.2	6525.7	6614.2	6566.2	6485.2	6502.9	6556.0	6328.4	6209.5	6141.2
52.5°	6728.0	6730.6	6900.0	6948.1	6927.8	6809.0	6846.9	6702.7	6434.6	6267.7	6275.3
55°	7165.6	7147.9	7337.6	7479.2	7502.0	7350.2	7168.1	6965.8	6629.4	6459.9	6409.3
57°	6925.3	6965.8	7175.7	7595.6	7808.1	7628.5	7231.4	6862.1	6414.4	6209.5	6118.5
57.5°	6604.1	6669.9	7034.1	7456.5	7679.1	7663.9	7153.0	6669.9	6270.2	5951.5	5959.1
60°	4838.6	4851.3	5180.1	5850.4	6545.9	6561.1	5938.9	5299.0	4853.8	4507.3	4555.3
62.5°	2552.1	2610.3	2741.8	3280.5	3882.5	4029.2	3652.4	3323.5	2939.1	2676.0	2701.3
65°	1350.7	1343.1	1406.3	1558.1	1854.0	1929.9	1879.3	1618.8	1484.7	1441.7	1444.3
67.5°	1097.7	1110.4	1102.8	1110.4	1130.6	1163.5	1155.9	1166.0	1173.6	1186.3	1183.7
70°	930.8	930.8	935.9	938.4	938.4	953.6	971.3	1004.1	1006.7	1019.3	1024.4
72.5°	733.5	728.4	736.0	753.7	756.3	768.9	794.2	814.4	822.0	822.0	806.9
75°	498.3	503.3	513.5	528.6	543.8	566.6	586.8	599.5	604.5	596.9	589.3
77.5°	280.8	285.8	293.4	316.2	333.9	354.1	376.9	389.5	402.2	404.7	389.5
80°	166.9	166.9	179.6	197.3	217.5	237.8	258.0	273.2	278.2	278.2	270.6
82.5°	101.2	103.7	113.8	131.5	149.2	161.9	179.6	192.2	202.3	199.8	194.8
85°	53.1	53.1	63.2	78.4	91.1	103.7	103.7	96.1	91.1	78.4	73.4
87.5°	17.7	15.2	20.2	20.2	17.7	20.2	20.2	22.8	22.8	22.8	22.8
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)