

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: P529162

Luminaire Tested: **GALN-SA4B-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529162
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-SA4B-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 19097 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

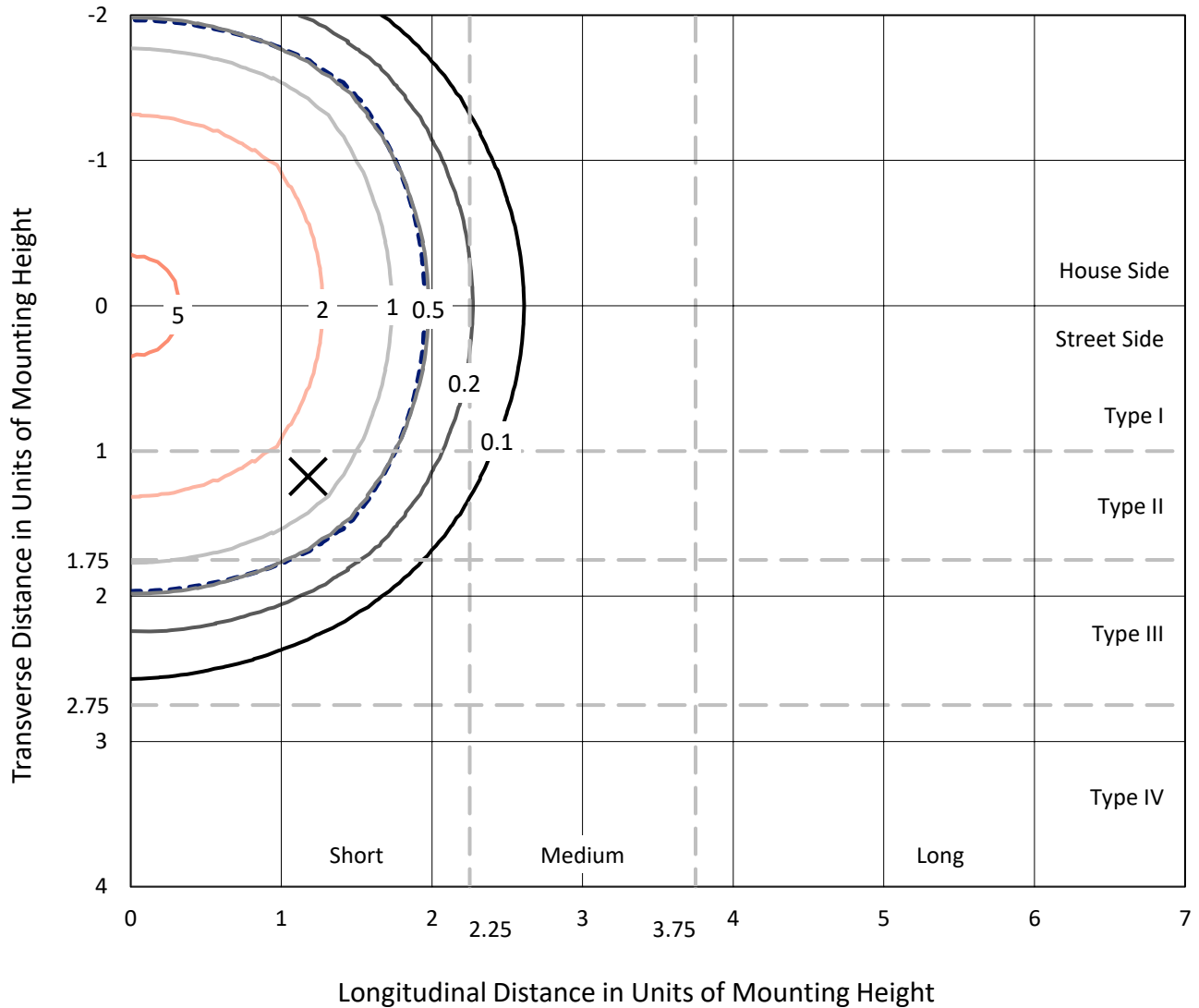
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

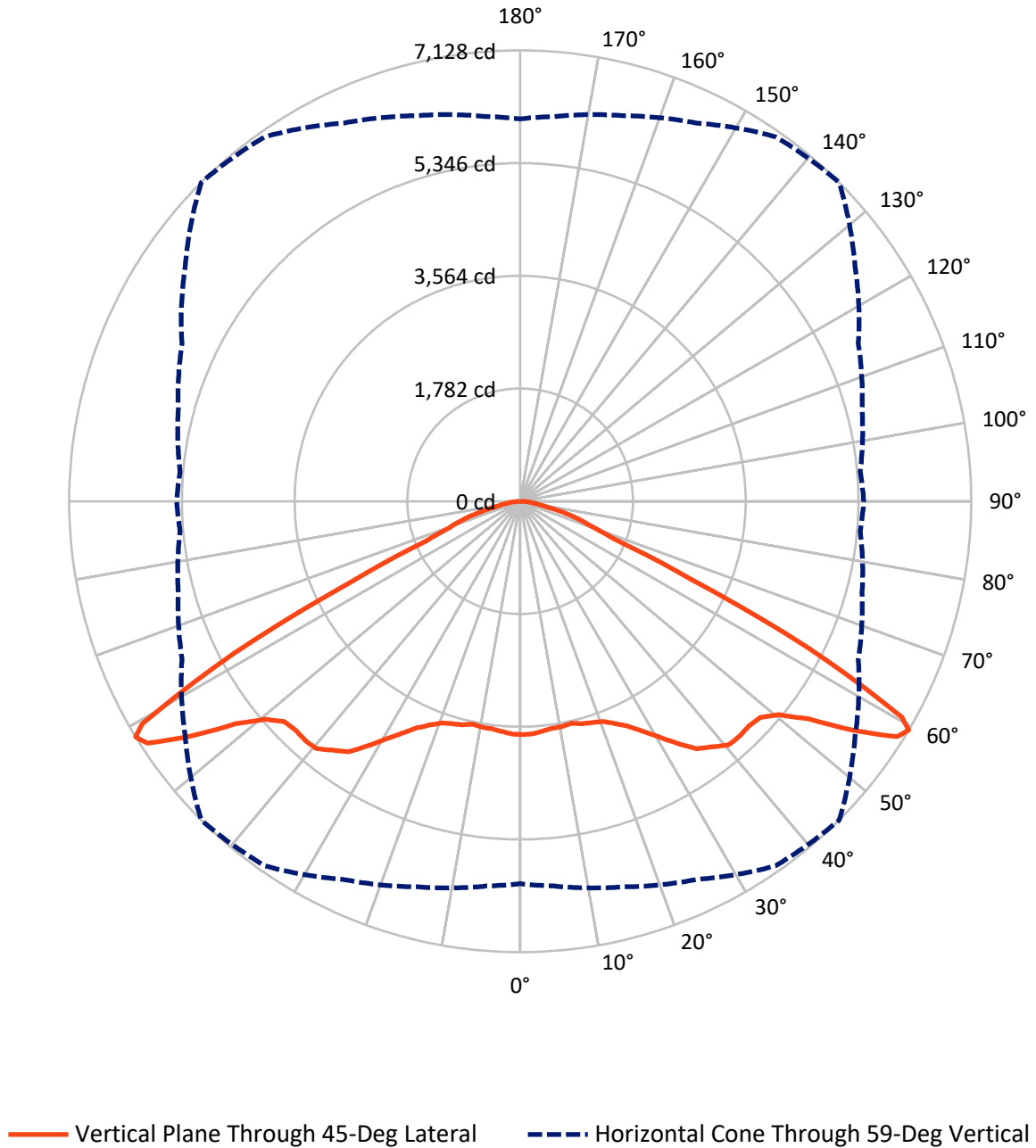
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	9548.5	0.0	9548.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9548.5	0.0	9548.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19097.0	0.0	19097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.7	1.8
10°-20°	1034.1	5.4
20°-30°	1805.6	9.5
30°-40°	2883.8	15.1
40°-50°	3928.3	20.6
50°-60°	5312.1	27.8
60°-70°	2913.2	15.3
70°-80°	745.3	3.9
80°-90°	127.1	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°	19097.0	100.0
0°-180°	19097.0	100.0

Coefficient of Utilization



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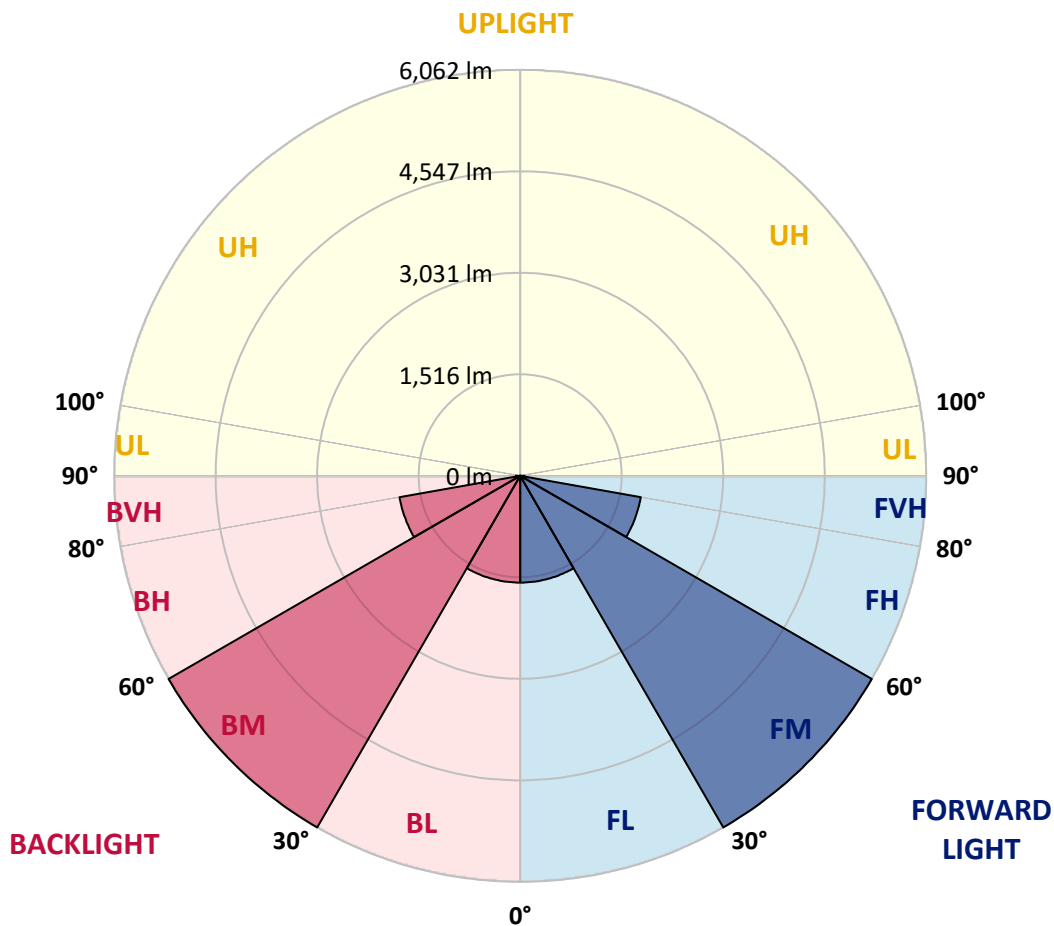
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.7	8.3			
FM (30°-60°)	6062.1	31.7			
FH (60°-80°)	1829.2	9.6			G2/5000
FVH (80°-90°)	63.6	0.3			G1/100
BL (0°-30°)	1593.7	8.3	B3/2500		
BM (30°-60°)	6062.1	31.7	B4/8500		
BH (60°-80°)	1829.2	9.6	B3/2500		G2/5000
BVH (80°-90°)	63.6	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6
2.5°	3666.6	3693.5	3673.9	3691.1	3688.6	3681.3	3669.0	3661.7	3651.9	3666.6	3642.1
5°	3651.9	3673.9	3696.0	3666.6	3666.6	3651.9	3644.6	3629.9	3629.9	3627.4	3625.0
7.5°	3676.4	3654.4	3644.6	3649.5	3654.4	3622.5	3644.6	3615.2	3590.7	3607.9	3627.4
10°	3654.4	3664.2	3627.4	3644.6	3617.6	3622.5	3607.9	3627.4	3600.5	3600.5	3600.5
12.5°	3676.4	3649.5	3661.7	3649.5	3642.1	3600.5	3620.1	3598.1	3595.6	3620.1	3598.1
15°	3720.4	3676.4	3666.6	3642.1	3649.5	3649.5	3629.9	3632.3	3605.4	3620.1	3625.0
17.5°	3705.8	3681.3	3673.9	3644.6	3669.0	3676.4	3639.7	3615.2	3632.3	3629.9	3627.4
20°	3718.0	3727.8	3720.4	3725.3	3735.1	3715.6	3681.3	3647.0	3625.0	3656.8	3654.4
22.5°	3796.3	3786.5	3781.6	3776.7	3793.9	3813.5	3767.0	3713.1	3713.1	3735.1	3744.9
25°	3860.0	3857.5	3855.1	3877.1	3935.8	3935.8	3877.1	3808.6	3791.4	3806.1	3793.9
27.5°	3953.0	3979.9	3970.1	4009.3	4094.9	4114.5	4036.2	3955.4	3908.9	3891.8	3913.8
30°	4165.9	4134.1	4141.4	4183.1	4258.9	4322.6	4202.6	4117.0	4053.3	4050.9	4060.7
32.5°	4307.9	4332.4	4354.4	4393.6	4513.5	4562.4	4418.0	4278.5	4239.4	4217.3	4224.7
35°	4591.8	4569.8	4564.9	4604.1	4724.0	4804.8	4623.6	4501.3	4449.9	4498.8	4498.8
37.5°	4861.1	4799.9	4753.4	4804.8	4914.9	4924.7	4770.5	4704.4	4677.5	4733.8	4731.3
40°	4988.3	4983.4	4875.7	4905.1	5052.0	5066.7	4922.2	4843.9	4839.0	4912.5	4985.9
42.5°	5120.5	5074.0	4966.3	4985.9	5076.5	5081.3	4944.3	4922.2	4976.1	5047.1	5052.0
45°	5142.5	5103.4	5034.8	4985.9	5052.0	5066.7	4985.9	5000.6	5005.5	5091.1	5091.1
47.5°	5186.6	5181.7	5142.5	5105.8	5118.1	5105.8	5054.4	5076.5	5149.9	5191.5	5171.9
50°	5309.0	5257.6	5296.7	5264.9	5267.4	5301.6	5255.1	5277.2	5262.5	5225.8	5201.3
52.5°	5578.2	5553.7	5588.0	5610.0	5634.5	5712.8	5659.0	5541.5	5431.4	5333.5	5331.0
55°	5972.3	5989.4	6055.5	6168.1	6263.6	6388.4	6128.9	5847.5	5671.2	5517.0	5526.8
57.5°	6344.3	6332.1	6422.7	6679.7	6958.7	7022.3	6513.2	6111.8	5825.4	5727.5	5685.9
59°	6045.7	6104.5	6310.1	6596.4	7034.6	7127.6	6461.8	5896.4	5592.9	5394.6	5428.9
60°	5575.8	5597.8	5781.4	6180.3	6772.7	6931.8	6116.7	5563.5	5159.7	5044.6	5096.0
62.5°	3940.7	3923.6	4055.8	4381.3	4912.5	5127.9	4547.8	4158.6	3904.0	3776.7	3806.1
65°	2095.2	2173.5	2227.4	2430.5	2712.0	2939.6	2699.8	2530.9	2388.9	2283.7	2281.2
67.5°	1414.7	1405.0	1417.2	1463.7	1559.2	1622.8	1617.9	1532.2	1520.0	1500.4	1522.4
70°	1192.0	1187.1	1165.1	1165.1	1184.7	1199.4	1216.5	1226.3	1245.9	1270.3	1267.9
72.5°	966.8	954.6	939.9	932.6	957.0	964.4	986.4	996.2	1013.3	1010.9	1032.9
75°	638.8	638.8	656.0	675.6	682.9	697.6	700.0	729.4	729.4	734.3	714.7
77.5°	357.4	347.6	359.8	379.4	396.5	423.4	450.4	472.4	484.6	479.7	479.7
80°	208.1	208.1	220.3	242.3	264.3	288.8	308.4	325.5	337.8	332.9	323.1
82.5°	129.7	129.7	142.0	164.0	181.1	195.8	222.7	244.8	259.5	254.6	242.3
85°	66.1	66.1	80.8	95.5	117.5	127.3	124.8	115.0	112.6	100.4	100.4
87.5°	17.1	17.1	24.5	26.9	22.0	24.5	24.5	24.5	24.5	24.5	26.9
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)