

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: P529522

Luminaire Tested: **GALN-SA4D-722-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529522
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-SA4D-722-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1200mA 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: 19857 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

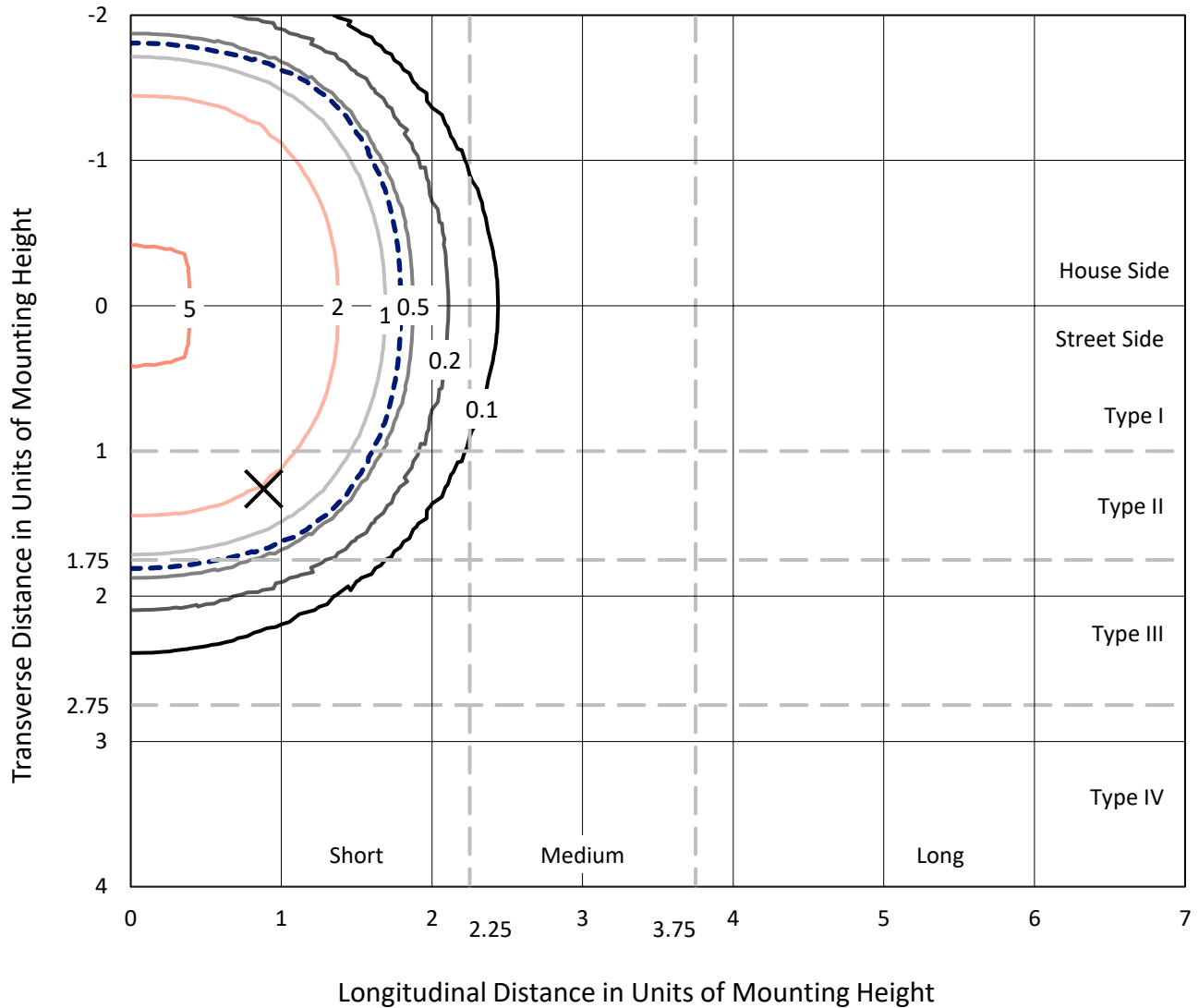
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

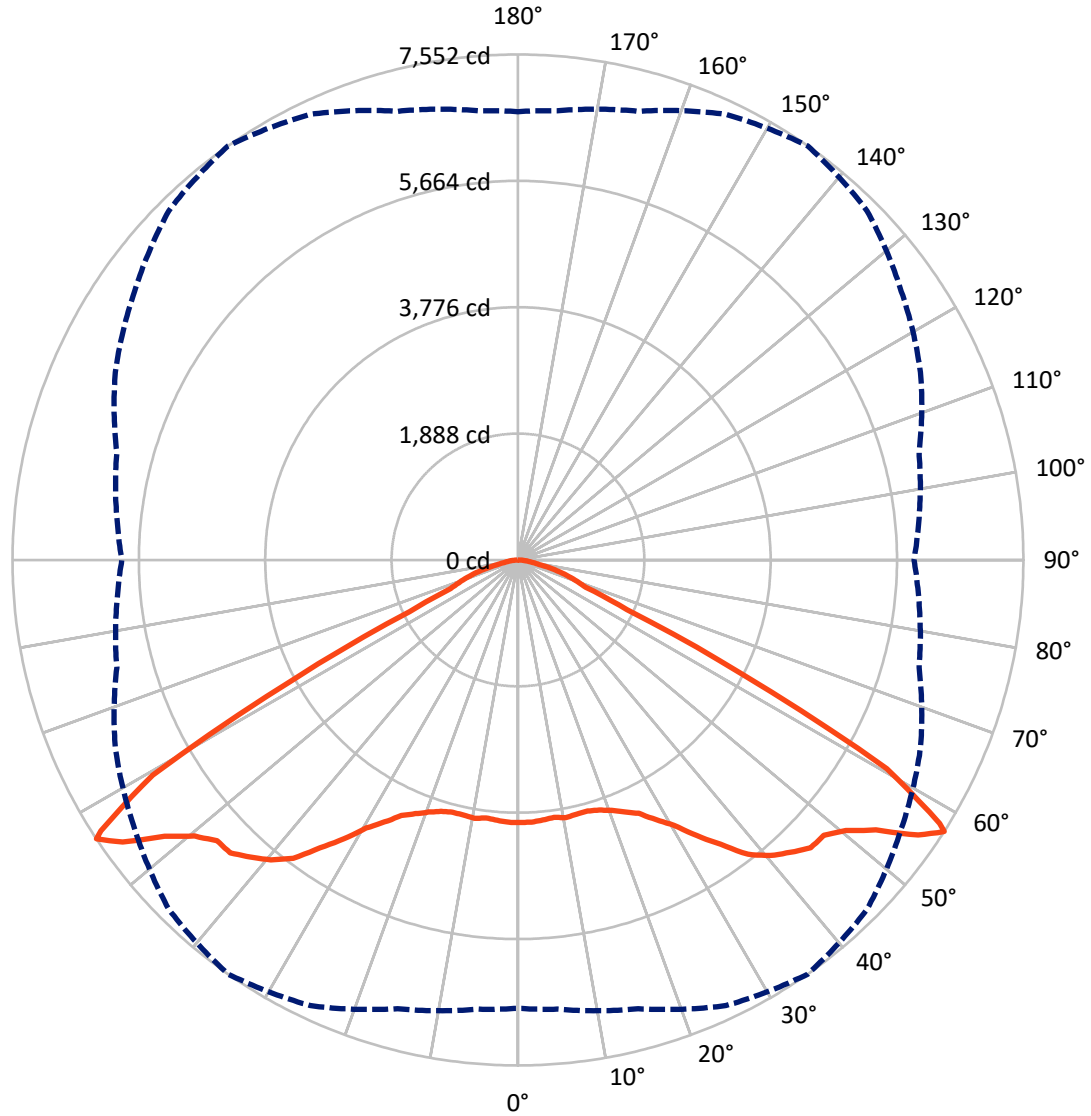
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	9928.5	0.0	9928.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9928.5	0.0	9928.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19857.0	0.0	19857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	1.9
10°-20°	1101.1	5.5
20°-30°	1923.1	9.7
30°-40°	3151.0	15.9
40°-50°	4620.2	23.3
50°-60°	5819.5	29.3
60°-70°	2188.6	11.0
70°-80°	581.9	2.9
80°-90°	99.8	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°	19857.0	100.0
0°-180°	19857.0	100.0

Coefficient of Utilization



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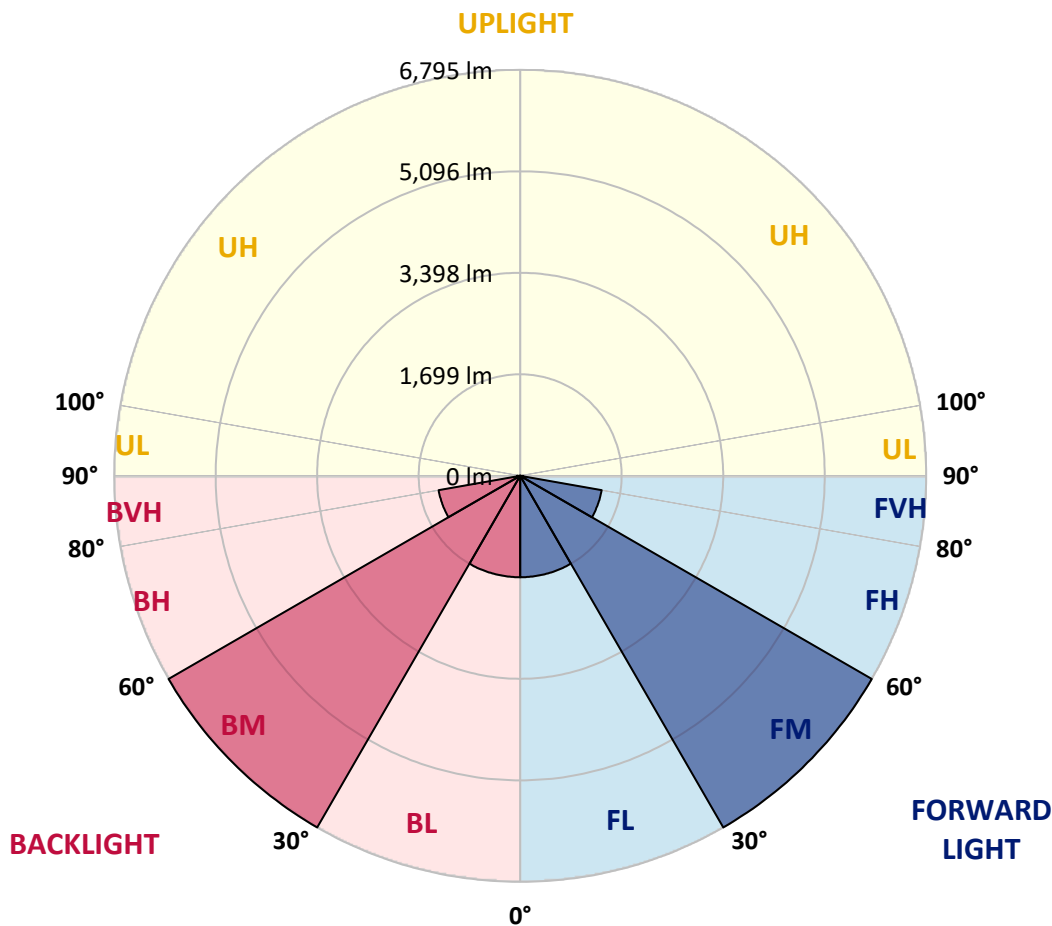
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.0	8.6			
FM (30°-60°)	6795.3	34.2			
FH (60°-80°)	1385.3	7.0			G1/1800
FVH (80°-90°)	49.9	0.3			G1/100
BL (0°-30°)	1698.0	8.6	B3/2500		
BM (30°-60°)	6795.3	34.2	B4/8500		
BH (60°-80°)	1385.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	49.9	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°	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6
2.5°	3902.0	3941.2	3924.1	3914.3	3921.6	3909.4	3889.8	3911.8	3906.9	3887.4	3880.0
5°	3892.3	3921.6	3902.0	3921.6	3902.0	3936.3	3926.5	3889.8	3933.8	3892.3	3906.9
7.5°	3884.9	3894.7	3899.6	3889.8	3882.5	3924.1	3902.0	3884.9	3860.5	3853.1	3865.3
10°	3867.8	3892.3	3855.6	3904.5	3914.3	3884.9	3884.9	3853.1	3833.5	3821.3	3862.9
12.5°	3911.8	3870.2	3865.3	3889.8	3897.1	3909.4	3875.1	3858.0	3821.3	3826.2	3818.9
15°	3860.5	3877.6	3880.0	3884.9	3892.3	3921.6	3889.8	3853.1	3838.4	3787.1	3792.0
17.5°	3880.0	3862.9	3880.0	3936.3	3926.5	3948.5	3914.3	3858.0	3823.8	3794.4	3833.5
20°	3914.3	3906.9	3914.3	3982.8	3995.0	4014.6	3985.2	3933.8	3867.8	3833.5	3853.1
22.5°	3951.0	3946.1	3951.0	4017.0	4088.0	4112.4	4083.1	3963.2	3929.0	3865.3	3843.3
25°	4017.0	4021.9	4073.3	4146.7	4193.2	4239.6	4185.8	4100.2	3990.1	3951.0	3904.5
27.5°	4163.8	4176.0	4205.4	4313.0	4393.8	4435.4	4359.5	4242.1	4173.6	4092.9	4080.6
30°	4344.8	4344.8	4396.2	4489.2	4599.3	4662.9	4569.9	4430.5	4347.3	4303.3	4276.3
32.5°	4584.6	4557.7	4577.3	4741.2	4912.4	4966.2	4841.5	4670.2	4538.1	4479.4	4459.8
35°	4790.1	4807.2	4851.3	5027.4	5218.2	5343.0	5147.3	4924.6	4790.1	4736.3	4726.5
37.5°	5056.8	5086.1	5108.1	5350.3	5580.3	5626.8	5438.4	5259.8	5095.9	5051.9	5027.4
40°	5433.5	5413.9	5421.3	5599.9	5807.8	5837.2	5651.2	5524.0	5389.5	5362.6	5362.6
42.5°	5744.2	5722.2	5746.6	5812.7	5971.7	5949.7	5846.9	5754.0	5697.7	5668.4	5697.7
45°	5932.6	5927.7	5971.7	6020.6	6133.2	6059.8	5979.1	5993.7	5939.9	5891.0	5888.5
47.5°	6138.1	6106.3	6160.1	6233.5	6147.9	6113.6	6108.7	6140.5	6123.4	6037.8	6010.9
50°	6238.4	6226.1	6311.8	6397.4	6350.9	6272.6	6289.7	6341.1	6120.9	6006.0	5939.9
52.5°	6507.5	6509.9	6673.8	6720.3	6700.7	6585.8	6622.5	6483.0	6223.7	6062.2	6069.6
55°	6930.7	6913.6	7097.1	7234.1	7256.1	7109.3	6933.2	6737.4	6412.1	6248.2	6199.2
57°	6698.3	6737.4	6940.5	7346.6	7552.1	7378.4	6994.3	6637.1	6204.1	6006.0	5917.9
57.5°	6387.6	6451.2	6803.5	7212.0	7427.3	7412.7	6918.5	6451.2	6064.7	5756.4	5763.8
60°	4680.0	4692.2	5010.3	5658.6	6331.3	6346.0	5744.2	5125.2	4694.7	4359.5	4406.0
62.5°	2468.4	2524.7	2651.9	3173.0	3755.3	3897.1	3532.6	3214.6	2842.7	2588.3	2612.8
65°	1306.4	1299.0	1360.2	1507.0	1793.2	1866.6	1817.7	1565.7	1436.0	1394.5	1396.9
67.5°	1061.7	1074.0	1066.6	1074.0	1093.5	1125.4	1118.0	1127.8	1135.1	1147.4	1144.9
70°	900.3	900.3	905.2	907.6	907.6	922.3	939.4	971.2	973.7	985.9	990.8
72.5°	709.5	704.6	711.9	729.0	731.5	743.7	768.2	787.7	795.1	795.1	780.4
75°	481.9	486.8	496.6	511.3	526.0	548.0	567.6	579.8	584.7	577.4	570.0
77.5°	271.6	276.4	283.8	305.8	322.9	342.5	364.5	376.7	389.0	391.4	376.7
80°	161.5	161.5	173.7	190.8	210.4	230.0	249.5	264.2	269.1	269.1	261.8
82.5°	97.9	100.3	110.1	127.2	144.3	156.6	173.7	185.9	195.7	193.3	188.4
85°	51.4	51.4	61.2	75.8	88.1	100.3	100.3	93.0	88.1	75.8	70.9
87.5°	17.1	14.7	19.6	19.6	17.1	19.6	19.6	22.0	22.0	22.0	22.0
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)