

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: P529158

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529158
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-SA4B-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 19869 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

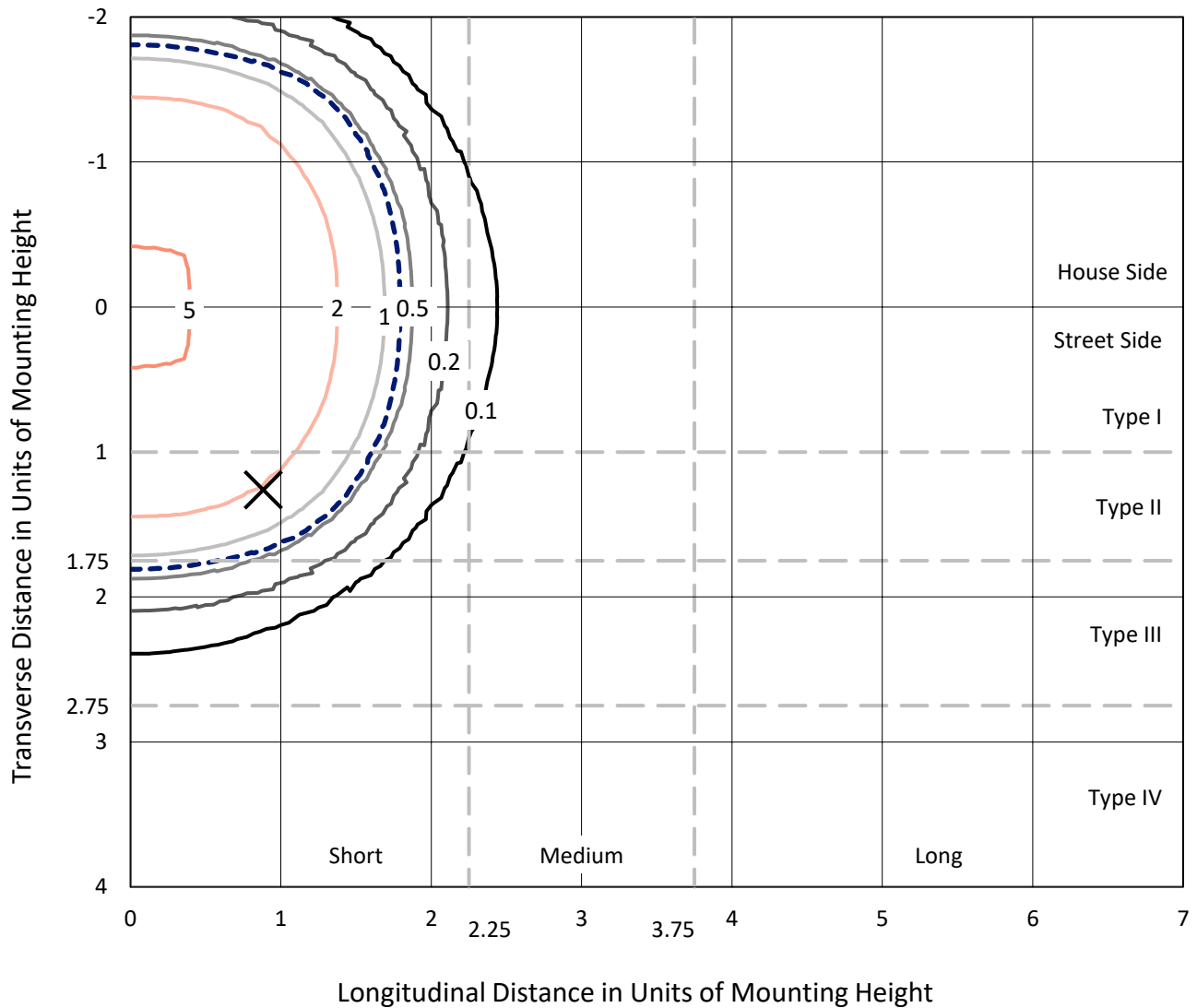
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

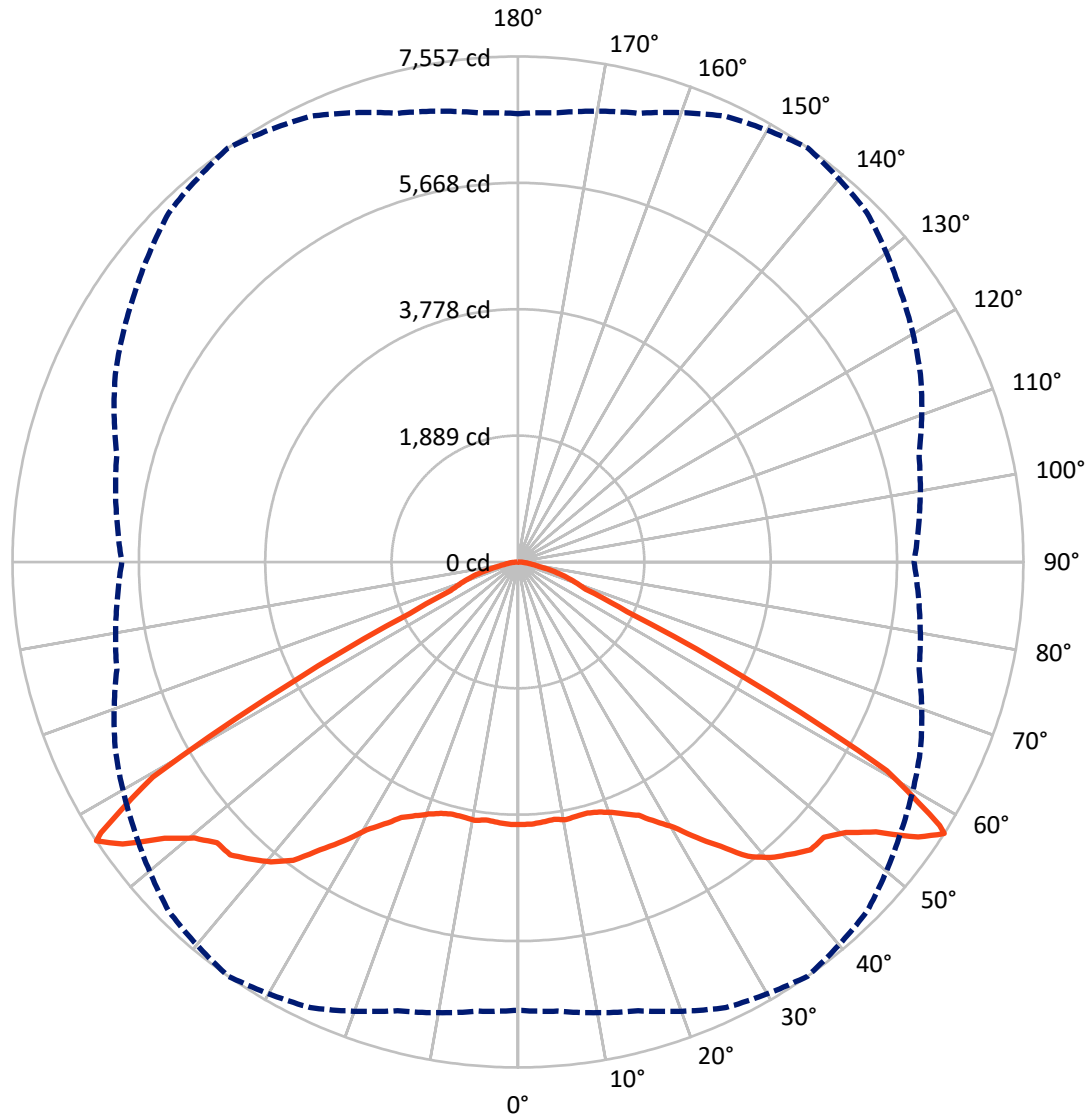
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	9934.5	0.0	9934.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9934.5	0.0	9934.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19869.0	0.0	19869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	1.9
10°-20°	1101.8	5.5
20°-30°	1924.2	9.7
30°-40°	3152.9	15.9
40°-50°	4623.0	23.3
50°-60°	5823.0	29.3
60°-70°	2190.0	11.0
70°-80°	582.3	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°	19869.0	100.0
0°-180°	19869.0	100.0

Coefficient of Utilization



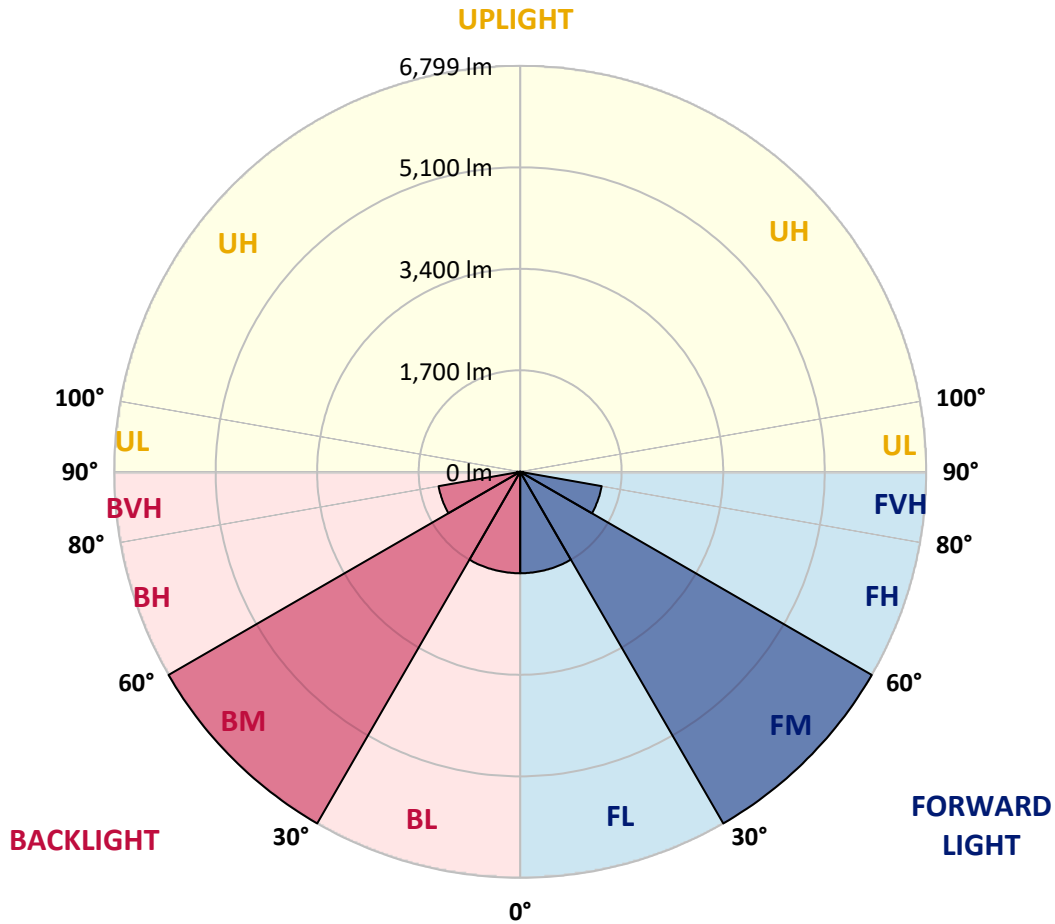
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.0	8.6			
FM (30°-60°)	6799.4	34.2			
FH (60°-80°)	1386.1	7.0			G1/1800
FVH (80°-90°)	49.9	0.3			G1/100
BL (0°-30°)	1699.0	8.6	B3/2500		
BM (30°-60°)	6799.4	34.2	B4/8500		
BH (60°-80°)	1386.1	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°	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0
2.5°	3904.4	3943.6	3926.4	3916.6	3924.0	3911.7	3892.2	3914.2	3909.3	3889.7	3882.4
5°	3894.6	3924.0	3904.4	3924.0	3904.4	3938.7	3928.9	3892.2	3936.2	3894.6	3909.3
7.5°	3887.3	3897.1	3902.0	3892.2	3884.8	3926.4	3904.4	3887.3	3862.8	3855.4	3867.7
10°	3870.1	3894.6	3857.9	3906.8	3916.6	3887.3	3887.3	3855.4	3835.9	3823.6	3865.2
12.5°	3914.2	3872.6	3867.7	3892.2	3899.5	3911.7	3877.5	3860.3	3823.6	3828.5	3821.2
15°	3862.8	3879.9	3882.4	3887.3	3894.6	3924.0	3892.2	3855.4	3840.8	3789.3	3794.2
17.5°	3882.4	3865.2	3882.4	3938.7	3928.9	3950.9	3916.6	3860.3	3826.1	3796.7	3835.9
20°	3916.6	3909.3	3916.6	3985.2	3997.4	4017.0	3987.6	3936.2	3870.1	3835.9	3855.4
22.5°	3953.4	3948.5	3953.4	4019.4	4090.4	4114.9	4085.5	3965.6	3931.3	3867.7	3845.6
25°	4019.4	4024.3	4075.8	4149.2	4195.7	4242.2	4188.4	4102.7	3992.5	3953.4	3906.8
27.5°	4166.3	4178.6	4207.9	4315.6	4396.4	4438.0	4362.2	4244.7	4176.1	4095.3	4083.1
30°	4347.5	4347.5	4398.9	4491.9	4602.0	4665.7	4572.7	4433.1	4349.9	4305.9	4278.9
32.5°	4587.4	4560.4	4580.0	4744.0	4915.4	4969.2	4844.4	4673.0	4540.9	4482.1	4462.5
35°	4793.0	4810.1	4854.2	5030.4	5221.4	5346.2	5150.4	4927.6	4793.0	4739.1	4729.3
37.5°	5059.8	5089.2	5111.2	5353.6	5583.7	5630.2	5441.7	5263.0	5099.0	5054.9	5030.4
40°	5436.8	5417.2	5424.5	5603.2	5811.3	5840.7	5654.6	5527.4	5392.7	5365.8	5365.8
42.5°	5747.7	5725.6	5750.1	5816.2	5975.3	5953.3	5850.5	5757.5	5701.2	5671.8	5701.2
45°	5936.2	5931.3	5975.3	6024.3	6136.9	6063.4	5982.7	5997.4	5943.5	5894.5	5892.1
47.5°	6141.8	6110.0	6163.8	6237.2	6151.6	6117.3	6112.4	6144.2	6127.1	6041.4	6014.5
50°	6242.1	6229.9	6315.6	6401.3	6354.7	6276.4	6293.5	6345.0	6124.6	6009.6	5943.5
52.5°	6511.4	6513.9	6677.9	6724.4	6704.8	6589.7	6626.5	6486.9	6227.5	6065.9	6073.2
55°	6934.9	6917.8	7101.4	7238.4	7260.5	7113.6	6937.3	6741.5	6415.9	6251.9	6203.0
57°	6702.3	6741.5	6944.7	7351.0	7556.7	7382.9	6998.5	6641.1	6207.9	6009.6	5921.5
57.5°	6391.5	6455.1	6807.6	7216.4	7431.8	7417.1	6922.7	6455.1	6068.3	5759.9	5767.2
60°	4682.8	4695.1	5013.3	5662.0	6335.2	6349.8	5747.7	5128.3	4697.5	4362.2	4408.7
62.5°	2469.9	2526.2	2653.5	3174.9	3757.5	3899.5	3534.8	3216.5	2844.5	2589.9	2614.4
65°	1307.2	1299.8	1361.0	1507.9	1794.3	1867.7	1818.8	1566.7	1436.9	1395.3	1397.7
67.5°	1062.4	1074.6	1067.3	1074.6	1094.2	1126.0	1118.7	1128.5	1135.8	1148.1	1145.6
70°	900.8	900.8	905.7	908.2	908.2	922.9	940.0	971.8	974.3	986.5	991.4
72.5°	709.9	705.0	712.3	729.5	731.9	744.2	768.6	788.2	795.6	795.6	780.9
75°	482.2	487.1	496.9	511.6	526.3	548.3	567.9	580.2	585.0	577.7	570.4
77.5°	271.7	276.6	284.0	306.0	323.1	342.7	364.7	377.0	389.2	391.7	377.0
80°	161.6	161.6	173.8	190.9	210.5	230.1	249.7	264.4	269.3	269.3	261.9
82.5°	97.9	100.4	110.2	127.3	144.4	156.7	173.8	186.0	195.8	193.4	188.5
85°	51.4	51.4	61.2	75.9	88.1	100.4	100.4	93.0	88.1	75.9	71.0
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)