

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: P453733

Luminaire Tested: **GALN-SA4D-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31574 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

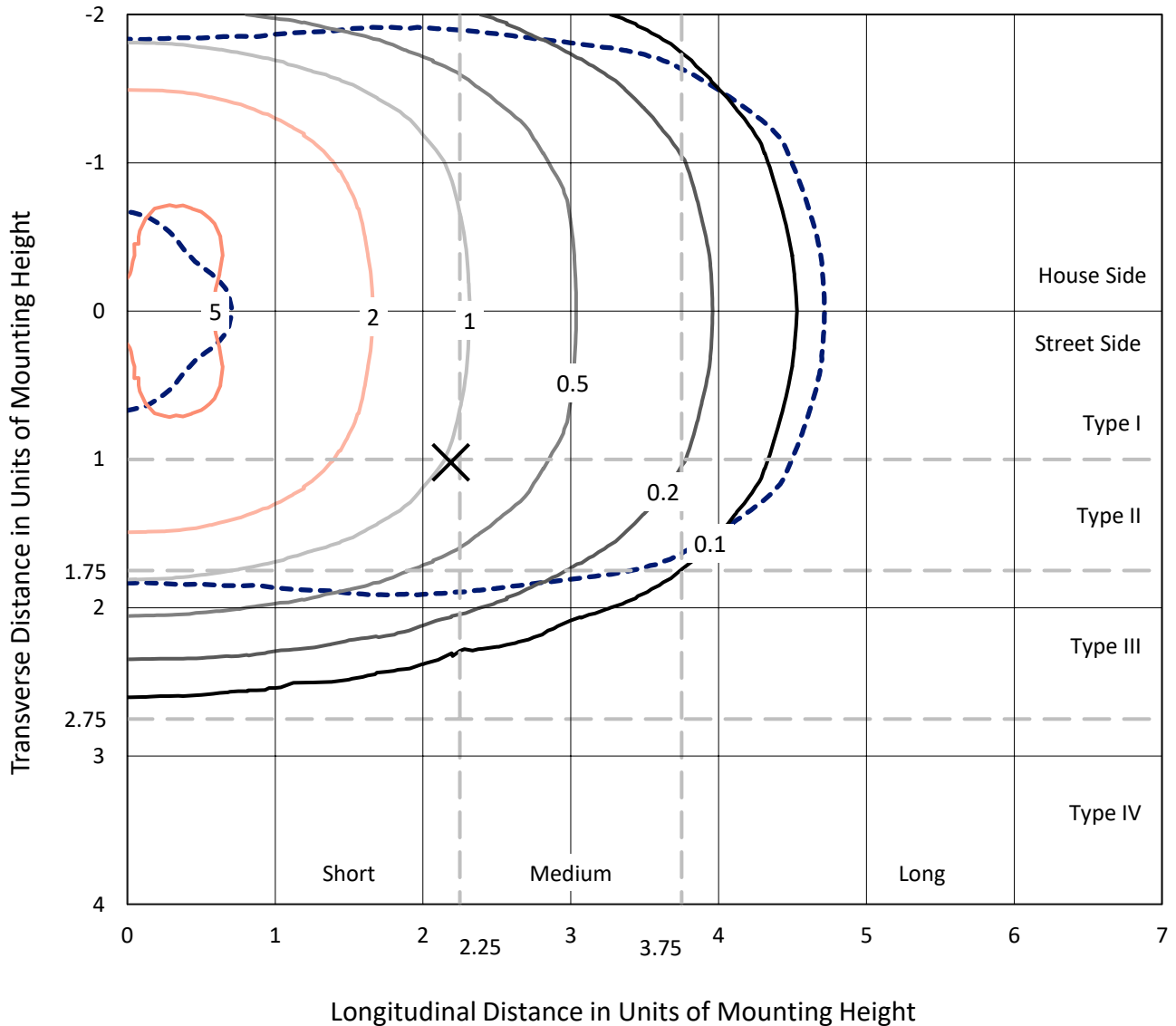
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

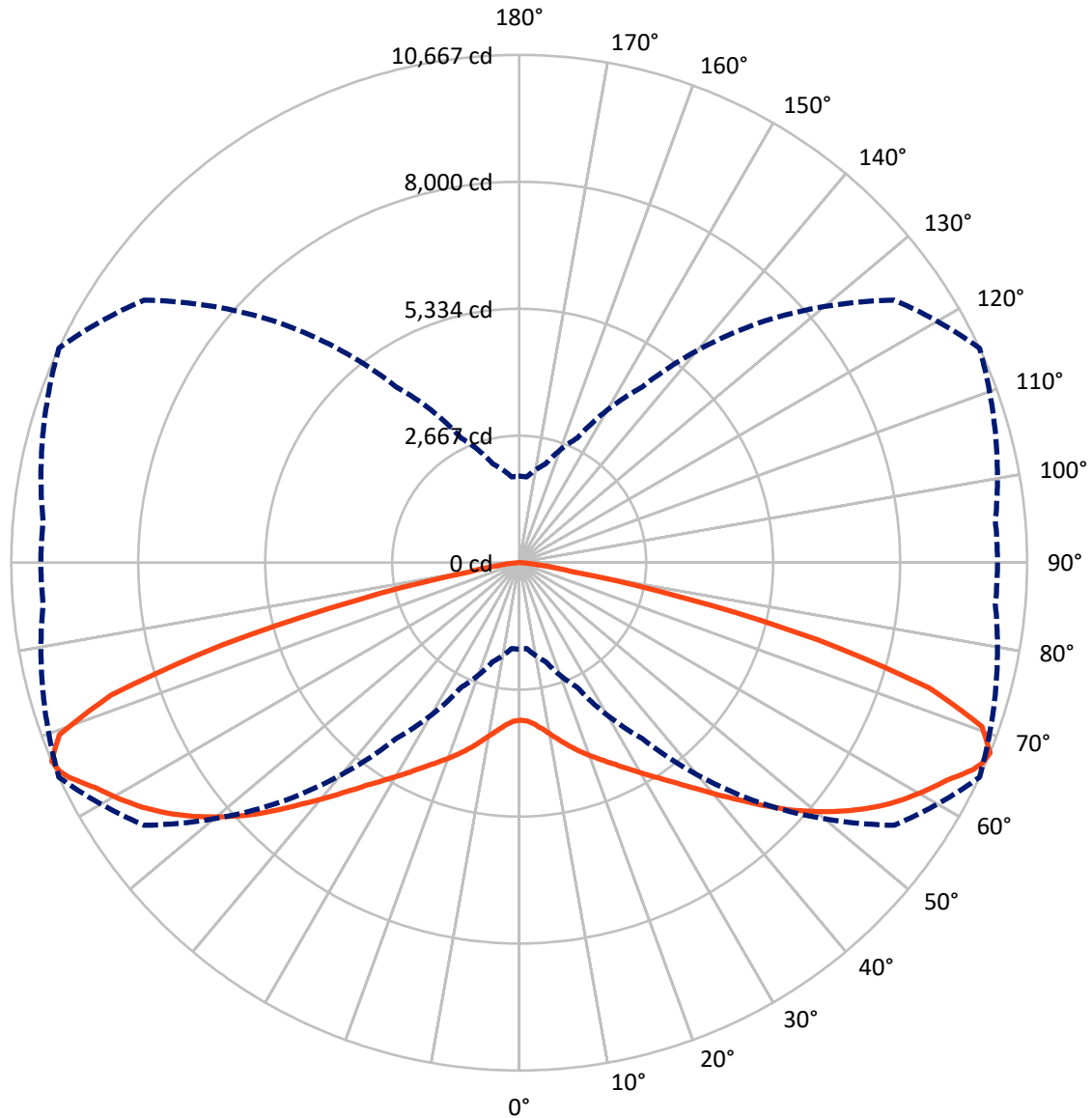
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15787.0	0.0	15787.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15787.0	0.0	15787.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31574.0	0.0	31574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	1.0
10°-20°	1091.7	3.5
20°-30°	2135.4	6.8
30°-40°	3632.0	11.5
40°-50°	5748.3	18.2
50°-60°	7622.1	24.1
60°-70°	7190.0	22.8
70°-80°	3554.4	11.3
80°-90°	273.9	0.9
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°	31574.0	100.0
0°-180°	31574.0	100.0

Coefficient of Utilization



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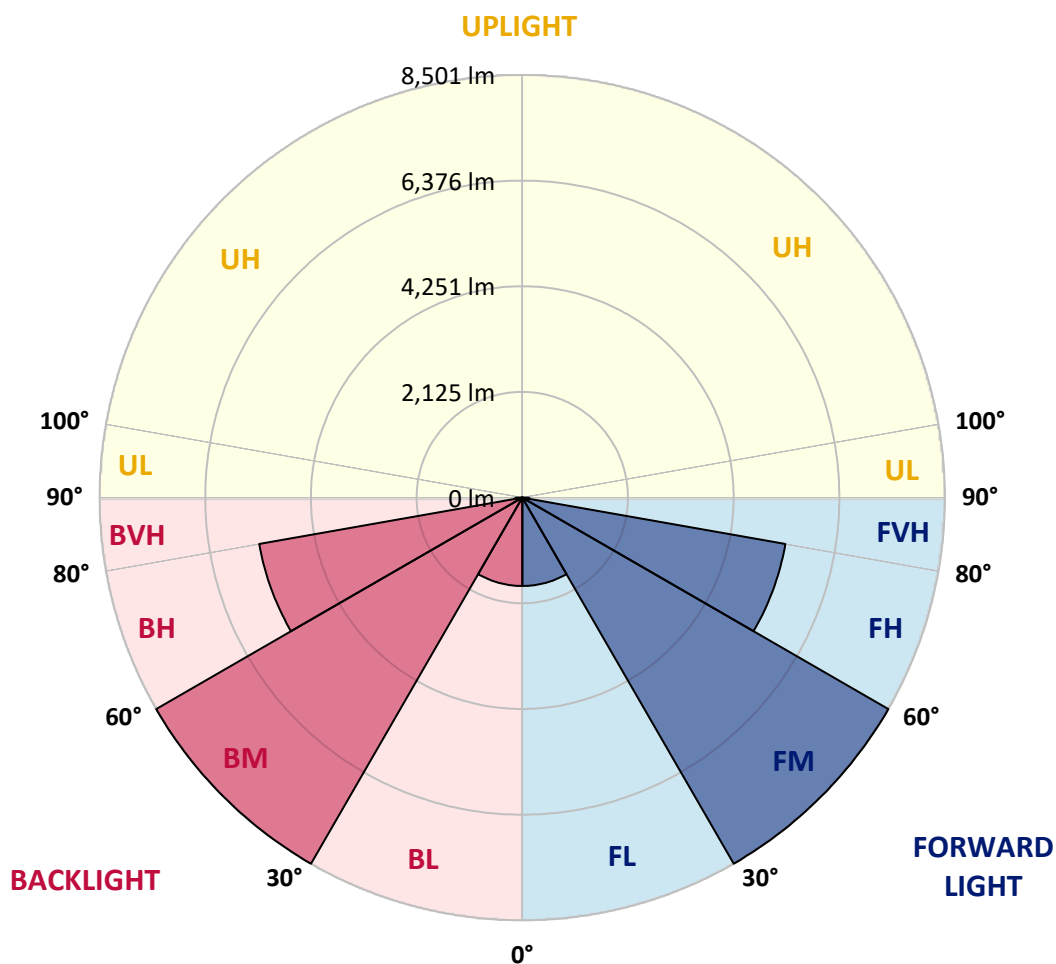
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1776.6	5.6			
FM	(30°-60°)	8501.2	26.9			
FH	(60°-80°)	5372.2	17.0			G3/7500
FVH	(80°-90°)	137.0	0.4			G2/225
BL	(0°-30°)	1776.6	5.6	B3/2500		
BM	(30°-60°)	8501.2	26.9	B5		
BH	(60°-80°)	5372.2	17.0	B5		G5
BVH	(80°-90°)	137.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3307.1	3307.1	3307.1	3307.1	3307.1	3307.1	3307.1	3307.1	3307.1	3307.1	3307.1
2.5°	3290.2	3293.6	3296.9	3302.0	3308.8	3318.9	3325.7	3330.8	3344.3	3346.0	3344.3
5°	3278.3	3281.7	3290.2	3305.4	3327.4	3357.8	3381.5	3410.3	3432.3	3447.5	3444.1
7.5°	3276.6	3283.4	3296.9	3329.1	3371.4	3423.8	3478.0	3527.0	3569.3	3603.1	3598.1
10°	3303.7	3312.2	3334.2	3381.5	3447.5	3523.6	3599.7	3672.5	3733.4	3777.4	3792.6
12.5°	3349.4	3356.2	3396.8	3467.8	3562.5	3657.3	3743.5	3833.2	3917.8	3992.2	3992.2
15°	3428.9	3440.7	3491.5	3594.7	3711.4	3821.3	3909.3	4004.0	4095.4	4180.0	4205.3
17.5°	3538.8	3555.8	3631.9	3763.8	3912.7	4014.2	4097.1	4174.9	4254.4	4335.6	4347.4
20°	3689.4	3706.3	3807.8	3966.8	4142.8	4264.5	4320.4	4339.0	4377.9	4455.7	4465.9
22.5°	3894.1	3911.0	4024.3	4203.7	4399.9	4531.8	4555.5	4511.5	4501.4	4562.3	4569.0
25°	4125.8	4141.1	4271.3	4464.2	4667.2	4810.9	4804.2	4695.9	4635.0	4672.2	4682.4
27.5°	4386.3	4408.3	4540.3	4739.9	4959.8	5086.7	5066.4	4909.1	4778.8	4772.0	4775.4
30°	4719.6	4743.3	4868.5	5059.6	5276.1	5392.9	5350.6	5139.1	4937.8	4870.1	4870.1
32.5°	5071.4	5130.7	5257.5	5457.1	5626.3	5710.9	5646.6	5392.9	5125.6	5030.8	5025.8
35°	5529.9	5562.0	5687.2	5881.7	6008.6	6074.6	5951.1	5678.7	5370.9	5259.2	5244.0
37.5°	5978.2	6005.2	6150.7	6336.8	6490.7	6487.3	6319.9	6018.7	5675.4	5550.2	5540.0
40°	6436.6	6465.3	6631.1	6802.0	6955.9	6942.4	6739.4	6402.7	6037.4	5897.0	5924.0
42.5°	6834.1	6866.2	7054.0	7297.6	7436.3	7432.9	7197.8	6818.9	6438.3	6313.1	6336.8
45°	7196.1	7224.9	7443.1	7722.2	7925.2	7950.6	7693.4	7292.5	6901.8	6741.1	6747.8
47.5°	7451.5	7505.7	7734.0	8053.8	8329.5	8419.1	8167.1	7774.6	7324.7	7157.2	7167.4
50°	7646.1	7679.9	7928.6	8292.3	8640.7	8826.8	8623.8	8221.2	7747.6	7570.0	7593.6
52.5°	7669.8	7710.4	7981.0	8400.5	8847.1	9129.6	9029.8	8657.7	8178.9	7996.2	8047.0
55°	7476.9	7500.6	7823.7	8332.9	8928.3	9354.6	9380.0	9063.6	8590.0	8451.3	8485.1
57.5°	6927.1	6988.0	7397.4	8016.5	8816.7	9474.7	9642.2	9432.4	9006.1	8869.1	8923.2
60°	6025.5	6086.4	6497.5	7282.4	8395.5	9418.9	9858.7	9758.9	9383.4	9273.4	9302.2
62.5°	4721.3	4716.2	5225.4	6187.9	7558.1	9144.8	10019.4	10073.5	9755.5	9616.8	9660.8
65°	3060.1	3075.3	3567.6	4604.6	6294.5	8447.9	10054.9	10474.5	10120.9	9911.1	9943.3
66°	2461.3	2507.0	2924.8	3880.6	5650.0	7991.2	9948.4	10592.9	10232.6	9978.8	9994.0
67.5°	1816.8	1808.3	2151.7	2889.3	4511.5	7123.4	9615.1	10667.3	10359.4	10039.7	10046.5
70°	1037.0	1035.3	1157.1	1586.7	2652.4	5015.6	8104.5	10310.4	10616.5	10259.6	10241.0
72.5°	757.8	752.8	769.7	876.3	1294.1	2532.3	5590.8	9011.2	10484.6	10224.1	10171.7
75°	636.0	632.7	629.3	642.8	725.7	1146.9	2967.1	6482.3	9097.5	9596.5	9542.4
77.5°	519.3	519.3	521.0	517.6	521.0	603.9	1229.8	3474.6	5540.0	6184.5	6335.1
80°	406.0	404.3	433.1	421.2	394.1	387.4	544.7	1118.2	1838.8	1828.6	1508.9
82.5°	299.4	279.1	329.9	321.4	291.0	247.0	318.0	477.0	614.1	399.2	296.0
85°	189.5	187.8	233.4	213.1	177.6	116.7	152.2	204.7	253.7	153.9	125.2
87.5°	33.8	32.1	74.4	54.1	54.1	33.8	42.3	55.8	82.9	57.5	42.3
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)