

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: P453786

Luminaire Tested: **GALN-SA4D-760-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-760-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32097 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

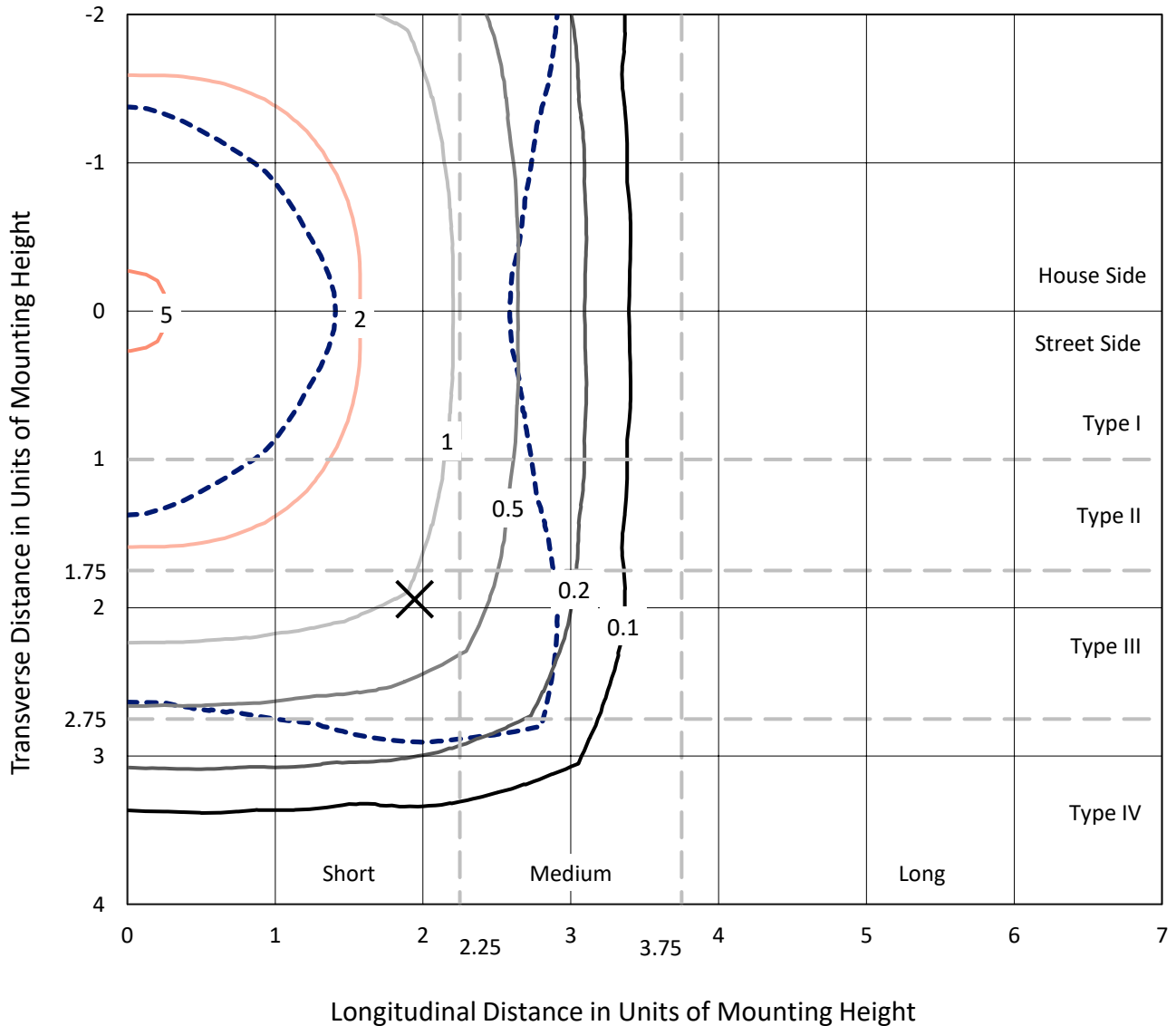
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

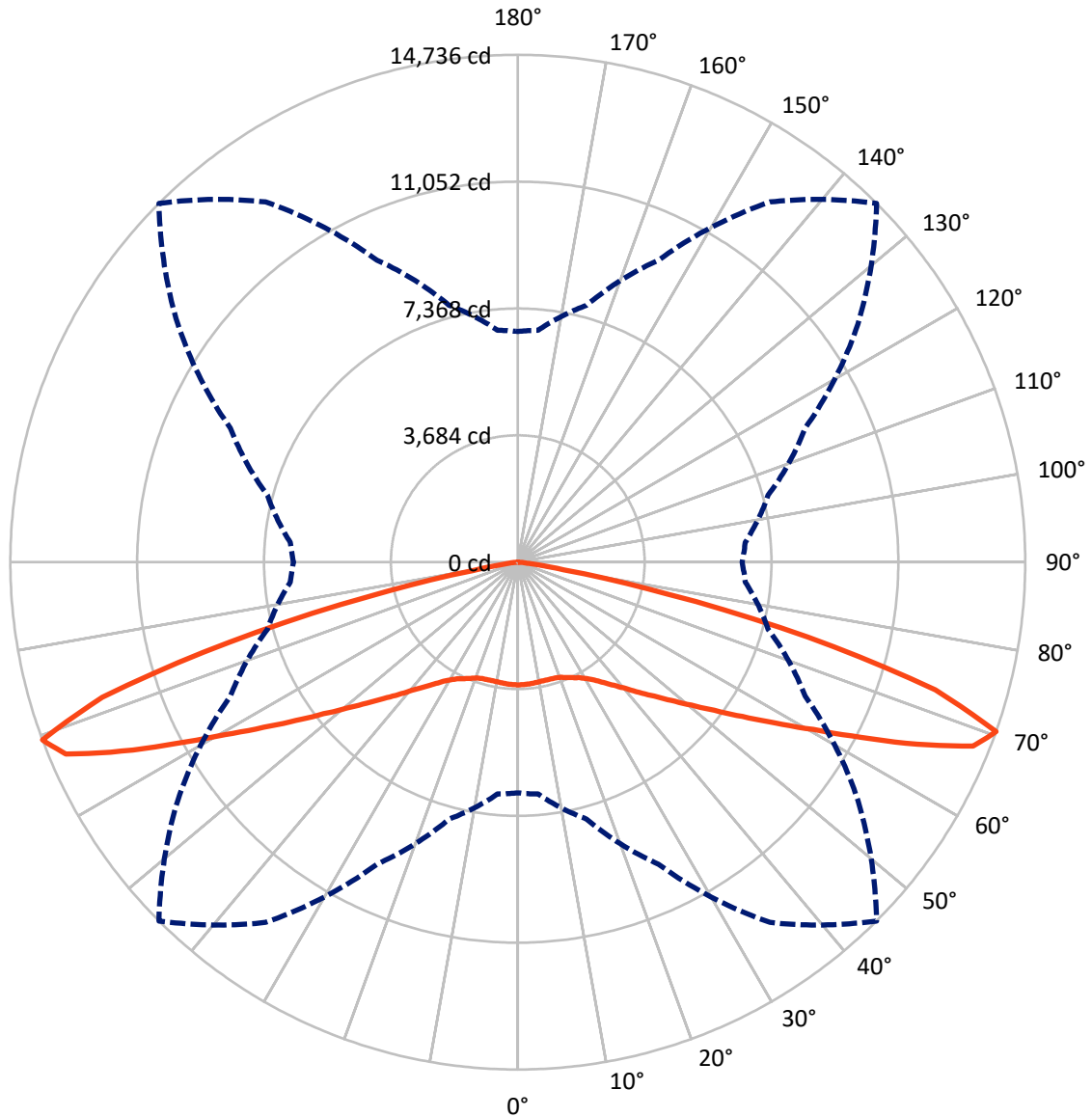
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16048.5	0.0	16048.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16048.5	0.0	16048.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32097.0	0.0	32097.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	1.1
10°-20°	991.8	3.1
20°-30°	1696.3	5.3
30°-40°	2692.4	8.4
40°-50°	4343.5	13.5
50°-60°	7067.0	22.0
60°-70°	10244.6	31.9
70°-80°	4544.1	14.2
80°-90°	179.2	0.6
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°	32097.0	100.0
0°-180°	32097.0	100.0



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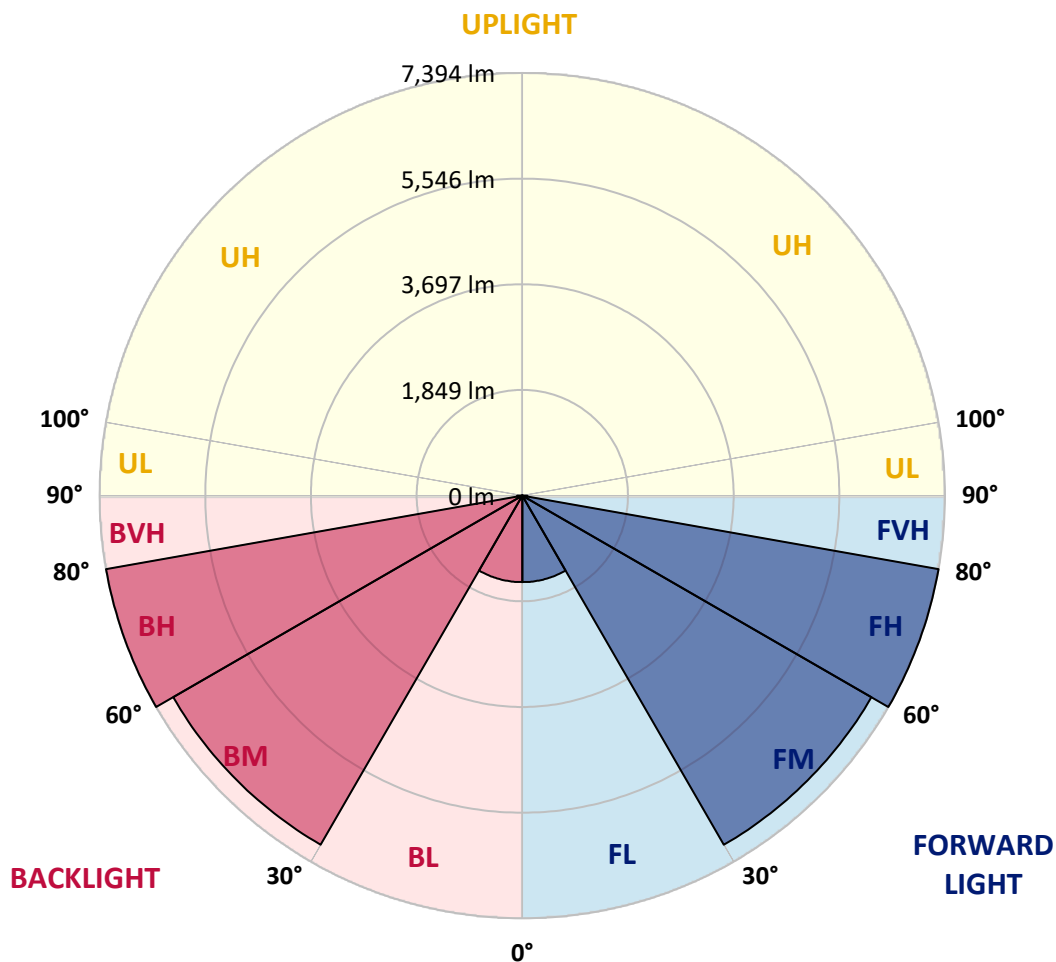
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1513.0	4.7			
FM	(30°-60°)	7051.5	22.0			
FH	(60°-80°)	7394.4	23.0			G3/7500
FVH	(80°-90°)	89.6	0.3			G1/100
BL	(0°-30°)	1513.0	4.7	B3/2500		
BM	(30°-60°)	7051.5	22.0	B4/8500		
BH	(60°-80°)	7394.4	23.0	B5		G3/7500
BVH	(80°-90°)	89.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2
2.5°	3564.2	3567.6	3562.5	3559.1	3557.5	3557.5	3555.8	3557.5	3567.6	3569.3	3564.2
5°	3554.1	3557.5	3555.8	3552.4	3550.7	3550.7	3549.0	3547.3	3555.8	3559.1	3557.5
7.5°	3540.5	3542.2	3540.5	3538.8	3540.5	3538.8	3533.8	3530.4	3537.2	3537.2	3535.5
10°	3516.9	3520.2	3518.5	3520.2	3523.6	3523.6	3516.9	3510.1	3511.8	3508.4	3508.4
12.5°	3488.1	3493.2	3494.9	3501.6	3510.1	3520.2	3505.0	3489.8	3486.4	3484.7	3483.0
15°	3469.5	3474.6	3481.3	3488.1	3503.3	3525.3	3503.3	3479.6	3472.9	3466.1	3462.7
17.5°	3464.4	3471.2	3481.3	3491.5	3511.8	3533.8	3515.2	3491.5	3474.6	3464.4	3461.0
20°	3477.9	3483.0	3498.2	3516.9	3545.6	3567.6	3549.0	3523.6	3498.2	3483.0	3477.9
22.5°	3505.0	3513.5	3532.1	3565.9	3606.5	3638.7	3613.3	3571.0	3530.4	3510.1	3503.3
25°	3564.2	3571.0	3593.0	3638.7	3686.0	3716.5	3689.4	3640.3	3584.5	3557.5	3549.0
27.5°	3653.9	3664.0	3687.7	3741.8	3780.7	3797.7	3779.1	3745.2	3704.6	3675.9	3669.1
30°	3780.7	3792.6	3828.1	3885.6	3911.0	3921.2	3912.7	3890.7	3861.9	3831.5	3824.7
32.5°	3951.6	3958.4	3999.0	4053.1	4076.8	4080.2	4070.0	4059.9	4012.5	3961.7	3958.4
35°	4142.8	4154.6	4203.6	4267.9	4289.9	4291.6	4271.3	4256.1	4200.3	4159.7	4159.7
37.5°	4396.5	4401.6	4448.9	4521.7	4545.4	4538.6	4528.4	4514.9	4455.7	4403.3	4405.0
40°	4694.2	4704.4	4745.0	4829.5	4829.5	4821.1	4827.9	4817.7	4758.5	4707.7	4709.4
42.5°	5047.8	5052.8	5101.9	5191.5	5184.8	5167.9	5174.6	5161.1	5123.9	5066.4	5046.1
45°	5425.0	5445.3	5529.9	5616.1	5602.6	5548.5	5575.5	5572.2	5538.3	5452.1	5457.1
47.5°	5880.0	5913.9	5995.1	6098.3	6083.0	5998.4	6028.9	6049.2	6001.8	5907.1	5890.2
50°	6392.6	6414.6	6534.7	6631.1	6617.6	6527.9	6597.3	6600.7	6482.2	6348.6	6348.6
52.5°	6939.0	6961.0	7123.4	7273.9	7282.4	7152.1	7207.9	7204.6	7011.7	6835.8	6802.0
55°	7551.3	7561.5	7771.3	7992.9	8040.2	7913.3	7920.1	7852.4	7602.1	7397.4	7378.8
57.5°	8184.0	8221.2	8453.0	8740.5	8880.9	8803.1	8767.6	8586.6	8344.7	8109.6	8097.7
60°	8884.3	8886.0	9187.1	9527.1	9811.3	9863.8	9718.3	9476.4	9163.4	8852.2	8838.7
62.5°	9369.8	9442.6	9823.2	10398.3	10907.5	11201.8	10817.8	10310.4	9694.6	9192.2	9141.5
65°	9469.6	9518.7	10098.9	11073.3	12113.6	12748.0	11859.9	10780.6	9730.1	9060.3	9026.4
67.5°	8662.7	8715.2	9496.7	10992.1	12959.4	14260.3	12536.5	10553.9	9127.9	8299.0	8233.1
70°	6700.5	6759.7	7725.6	9676.0	12771.6	14735.6	12054.4	9205.7	7527.7	6632.8	6512.7
72.5°	3562.5	3780.7	4606.3	6641.3	10366.2	12687.1	9884.1	6717.4	4854.9	3968.5	3809.5
75°	1300.8	1327.9	1788.0	2945.1	6030.6	8699.9	6262.3	3203.9	1842.2	1422.6	1349.9
77.5°	537.9	536.2	588.7	889.8	2190.6	4455.7	2444.4	940.5	587.0	543.0	536.2
80°	318.0	318.0	350.2	370.5	576.8	1344.8	644.5	419.5	351.9	321.4	326.5
82.5°	142.1	150.6	221.6	233.4	279.1	368.8	311.3	267.3	230.1	159.0	143.8
85°	77.8	67.7	116.7	121.8	133.6	137.0	147.2	145.5	133.6	77.8	79.5
87.5°	15.2	18.6	33.8	25.4	28.8	25.4	33.8	47.4	49.1	27.1	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)