

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: P453554

Luminaire Tested: **GALN-SA4C-760-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453554
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-SA4C-760-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29169 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

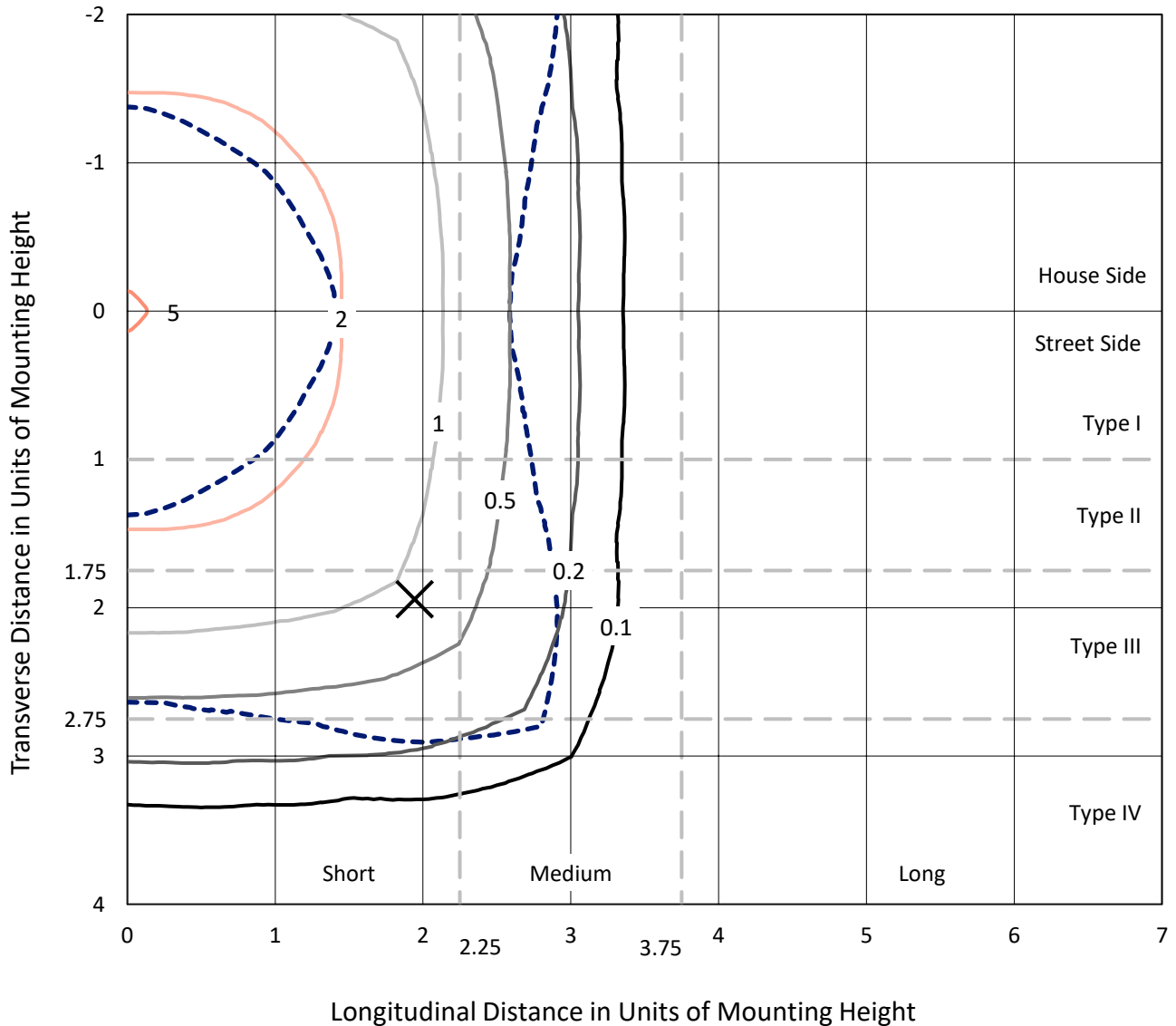
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

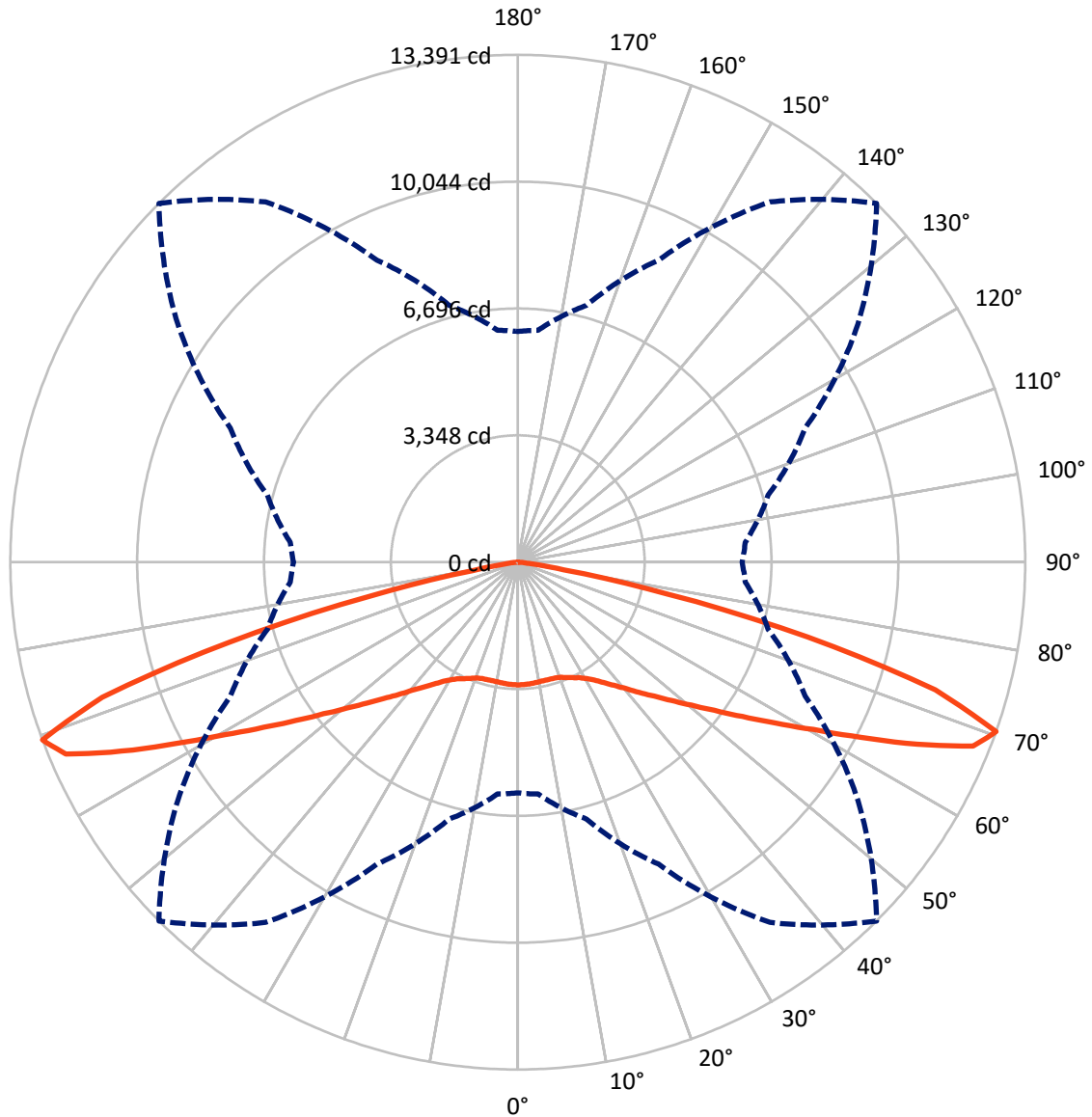
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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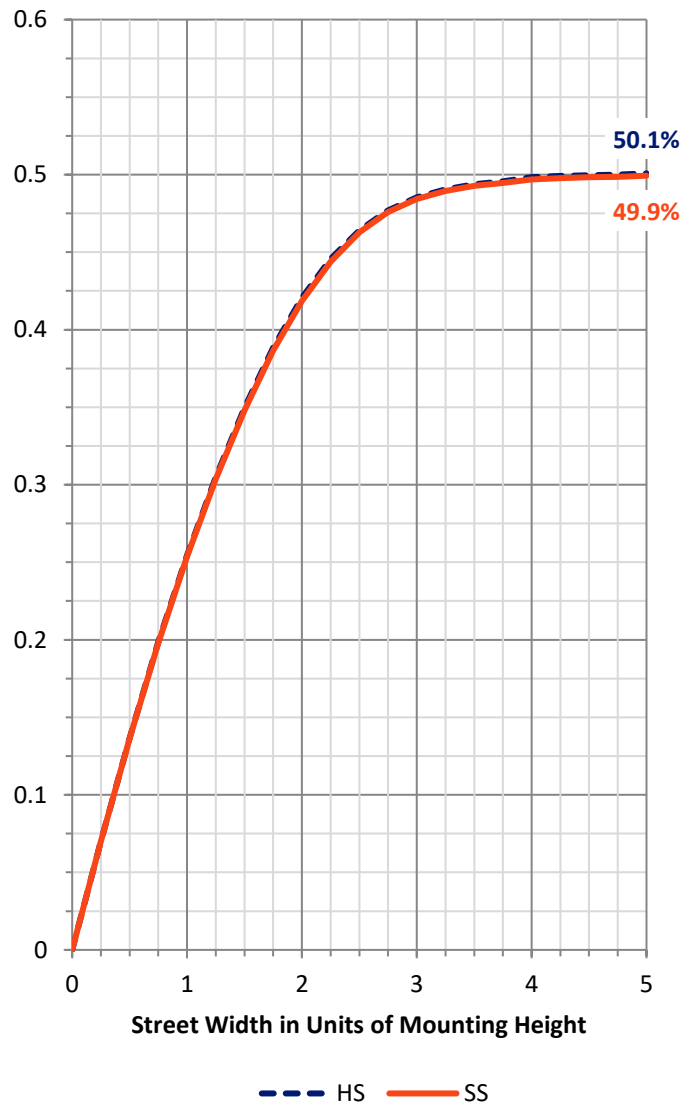
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14584.5	0.0	14584.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14584.5	0.0	14584.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29169.0	0.0	29169.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	1.1
10°-20°	901.3	3.1
20°-30°	1541.5	5.3
30°-40°	2446.8	8.4
40°-50°	3947.3	13.5
50°-60°	6422.3	22.0
60°-70°	9310.1	31.9
70°-80°	4129.6	14.2
80°-90°	162.9	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°	29169.0	100.0
0°-180°	29169.0	100.0



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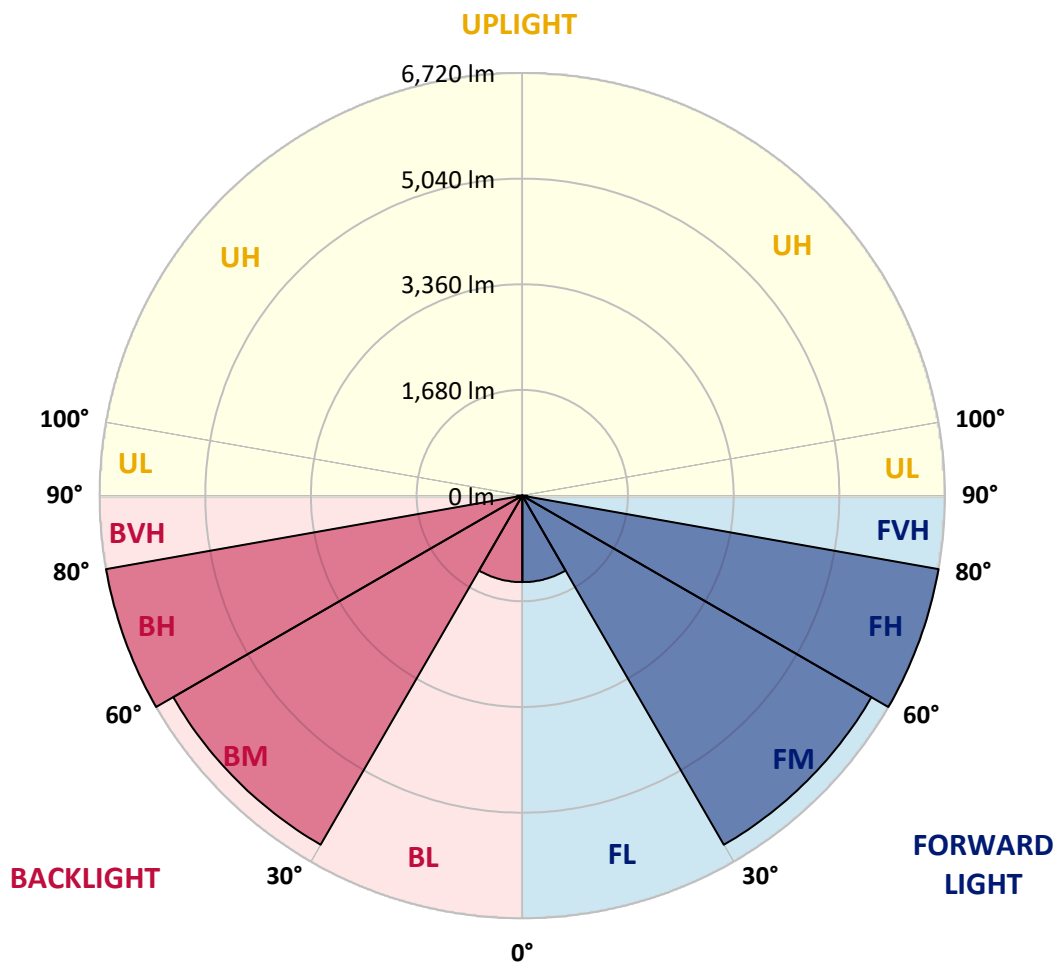
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.0	4.7			
FM (30°-60°)	6408.2	22.0			
FH (60°-80°)	6719.8	23.0			G3/7500
FVH (80°-90°)	81.4	0.3			G1/100
BL (0°-30°)	1375.0	4.7	B3/2500		
BM (30°-60°)	6408.2	22.0	B4/8500		
BH (60°-80°)	6719.8	23.0	B5		G3/7500
BVH (80°-90°)	81.4	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°	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1
2.5°	3239.1	3242.2	3237.5	3234.5	3232.9	3232.9	3231.4	3232.9	3242.2	3243.7	3239.1
5°	3229.9	3232.9	3231.4	3228.3	3226.8	3226.8	3225.2	3223.7	3231.4	3234.5	3232.9
7.5°	3217.6	3219.1	3217.6	3216.0	3217.6	3216.0	3211.4	3208.3	3214.5	3214.5	3212.9
10°	3196.0	3199.1	3197.6	3199.1	3202.2	3202.2	3196.0	3189.9	3191.4	3188.3	3188.3
12.5°	3169.9	3174.5	3176.1	3182.2	3189.9	3199.1	3185.3	3171.4	3168.4	3166.8	3165.3
15°	3153.0	3157.6	3163.8	3169.9	3183.7	3203.7	3183.7	3162.2	3156.1	3149.9	3146.8
17.5°	3148.4	3154.5	3163.8	3173.0	3191.4	3211.4	3194.5	3173.0	3157.6	3148.4	3145.3
20°	3160.7	3165.3	3179.1	3196.0	3222.2	3242.2	3225.2	3202.2	3179.1	3165.3	3160.7
22.5°	3185.3	3193.0	3209.9	3240.6	3277.5	3306.7	3283.7	3245.2	3208.3	3189.9	3183.7
25°	3239.1	3245.2	3265.2	3306.7	3349.8	3377.4	3352.8	3308.3	3257.5	3232.9	3225.2
27.5°	3320.6	3329.8	3351.3	3400.5	3435.9	3451.2	3434.3	3403.6	3366.7	3340.5	3334.4
30°	3435.9	3446.6	3478.9	3531.2	3554.2	3563.4	3555.8	3535.8	3509.6	3482.0	3475.8
32.5°	3591.1	3597.3	3634.2	3683.4	3704.9	3708.0	3698.7	3689.5	3646.5	3600.3	3597.3
35°	3764.8	3775.6	3820.2	3878.6	3898.6	3900.1	3881.7	3867.8	3817.1	3780.2	3780.2
37.5°	3995.4	4000.0	4043.1	4109.2	4130.7	4124.6	4115.3	4103.0	4049.2	4001.6	4003.1
40°	4266.0	4275.2	4312.1	4389.0	4389.0	4381.3	4387.4	4378.2	4324.4	4278.3	4279.8
42.5°	4587.3	4591.9	4636.5	4718.0	4711.8	4696.4	4702.6	4690.3	4656.5	4604.2	4585.8
45°	4930.1	4948.6	5025.4	5103.8	5091.5	5042.3	5066.9	5063.8	5033.1	4954.7	4959.3
47.5°	5343.6	5374.4	5448.2	5541.9	5528.1	5451.2	5478.9	5497.4	5454.3	5368.2	5352.9
50°	5809.4	5829.4	5938.6	6026.2	6013.9	5932.4	5995.4	5998.5	5890.9	5769.5	5769.5
52.5°	6306.0	6326.0	6473.5	6610.4	6618.1	6499.7	6550.4	6547.3	6372.1	6212.2	6181.5
55°	6862.5	6871.7	7062.3	7263.7	7306.8	7191.5	7197.6	7136.1	6908.6	6722.6	6705.7
57.5°	7437.4	7471.3	7681.9	7943.2	8070.8	8000.1	7967.8	7803.3	7583.5	7369.8	7359.0
60°	8073.9	8075.4	8349.0	8658.0	8916.3	8964.0	8831.8	8611.9	8327.5	8044.7	8032.4
62.5°	8515.1	8581.2	8927.1	9449.8	9912.5	10180.0	9831.0	9369.8	8810.2	8353.7	8307.5
65°	8605.8	8650.4	9177.6	10063.1	11008.6	11585.1	10778.0	9797.2	8842.5	8233.8	8203.0
67.5°	7872.5	7920.1	8630.4	9989.3	11777.2	12959.4	11392.9	9591.2	8295.2	7542.0	7482.0
70°	6089.2	6143.0	7020.8	8793.3	11606.6	13391.4	10954.8	8366.0	6841.0	6027.7	5918.6
72.5°	3237.5	3435.9	4186.1	6035.4	9420.5	11529.7	8982.4	6104.6	4412.0	3606.5	3462.0
75°	1182.2	1206.8	1624.9	2676.4	5480.5	7906.3	5691.1	2911.6	1674.1	1292.9	1226.8
77.5°	488.9	487.3	535.0	808.6	1990.8	4049.2	2221.4	854.7	533.4	493.5	487.3
80°	289.0	289.0	318.2	336.7	524.2	1222.1	585.7	381.2	319.8	292.1	296.7
82.5°	129.1	136.8	201.4	212.1	253.7	335.1	282.9	242.9	209.1	144.5	130.7
85°	70.7	61.5	106.1	110.7	121.4	124.5	133.7	132.2	121.4	70.7	72.3
87.5°	13.8	16.9	30.7	23.1	26.1	23.1	30.7	43.0	44.6	24.6	20.0
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)