

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: P453468

Luminaire Tested: **GALN-SA4C-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26433 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

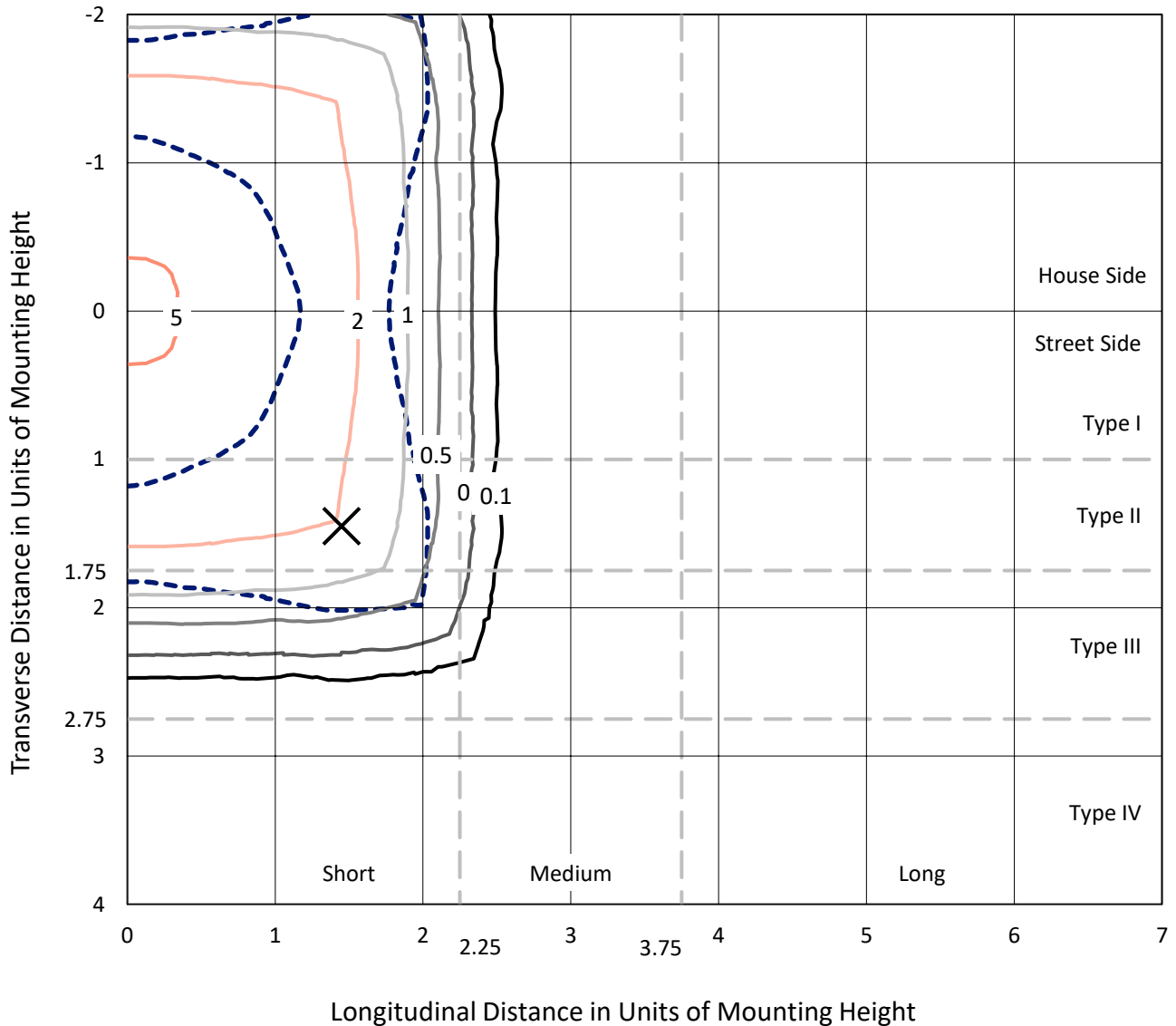
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

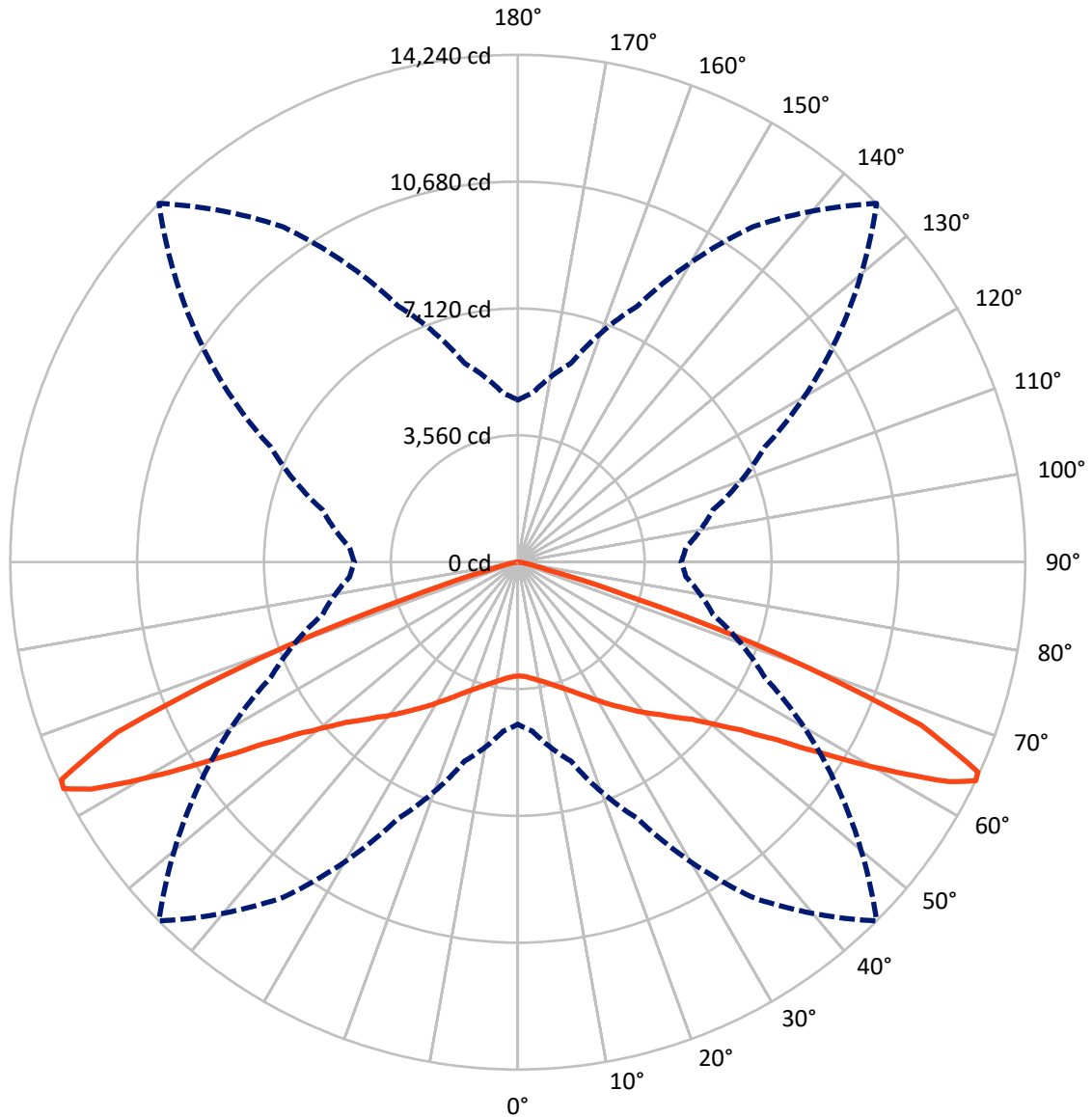
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13216.5	0.0	13216.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13216.5	0.0	13216.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26433.0	0.0	26433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.9	1.2
10°-20°	1012.4	3.8
20°-30°	1913.2	7.2
30°-40°	3168.5	12.0
40°-50°	4946.6	18.7
50°-60°	7647.3	28.9
60°-70°	6594.2	24.9
70°-80°	747.3	2.8
80°-90°	89.5	0.3
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°	26433.0	100.0
0°-180°	26433.0	100.0

Coefficient of Utilization



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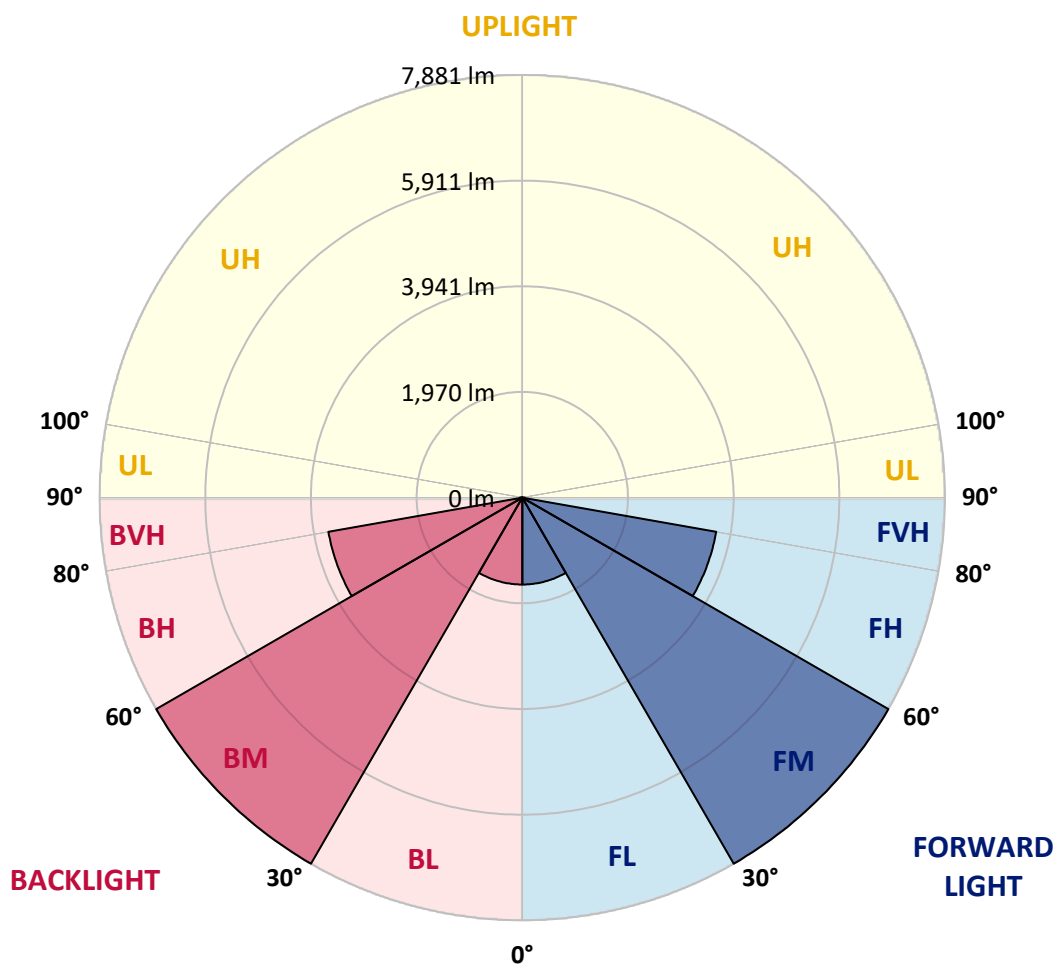
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.8	6.1			
FM	(30°-60°)	7881.2	29.8			
FH	(60°-80°)	3670.7	13.9			G2/5000
FVH	(80°-90°)	44.8	0.2			G1/100
BL	(0°-30°)	1619.8	6.1	B3/2500		
BM	(30°-60°)	7881.2	29.8	B4/8500		
BH	(60°-80°)	3670.7	13.9	B4/5000		G2/5000
BVH	(80°-90°)	44.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3194.9	3194.9	3194.9	3194.9	3194.9	3194.9	3194.9	3194.9	3194.9	3194.9	3194.9
2.5°	3207.5	3214.5	3208.9	3207.5	3206.1	3206.1	3206.1	3207.5	3213.1	3217.3	3214.5
5°	3248.1	3253.7	3250.9	3249.5	3248.1	3249.5	3246.7	3245.3	3249.5	3249.5	3248.1
7.5°	3298.5	3305.5	3302.7	3305.5	3306.9	3308.3	3301.3	3295.7	3294.3	3298.5	3295.7
10°	3367.1	3372.7	3374.1	3375.5	3378.3	3376.9	3368.5	3358.7	3357.3	3355.9	3354.5
12.5°	3444.1	3448.3	3449.7	3455.3	3459.5	3460.9	3451.1	3442.7	3428.7	3431.5	3425.9
15°	3530.9	3539.3	3537.9	3546.3	3557.5	3560.3	3550.5	3536.5	3523.9	3516.9	3512.7
17.5°	3637.3	3642.9	3640.1	3648.5	3662.5	3669.5	3661.1	3642.9	3630.3	3614.9	3606.5
20°	3763.3	3773.1	3775.9	3775.9	3788.5	3795.5	3782.9	3777.3	3757.7	3746.5	3739.5
22.5°	3906.1	3910.3	3918.7	3927.1	3939.7	3936.9	3932.7	3924.3	3906.1	3896.3	3885.1
25°	4067.1	4071.3	4092.3	4110.5	4114.7	4111.9	4106.3	4102.1	4085.3	4062.9	4054.5
27.5°	4254.7	4263.1	4291.1	4307.9	4307.9	4309.3	4298.1	4312.1	4275.7	4249.1	4246.3
30°	4489.9	4495.5	4519.3	4536.1	4527.7	4520.7	4517.9	4531.9	4492.7	4445.1	4433.9
32.5°	4722.3	4741.9	4762.9	4799.3	4769.9	4757.3	4754.5	4764.3	4719.5	4666.3	4650.9
35°	4971.5	4985.5	5024.7	5055.5	5028.9	4999.5	5012.1	5042.9	4989.7	4918.3	4915.5
37.5°	5247.3	5259.9	5310.3	5342.5	5322.9	5272.5	5293.5	5329.9	5276.7	5188.5	5170.3
40°	5534.3	5560.9	5623.9	5657.5	5625.3	5558.1	5597.3	5636.5	5588.9	5486.7	5446.1
42.5°	5856.3	5898.3	5989.3	6006.1	5944.5	5853.5	5922.1	5985.1	5951.5	5833.9	5818.5
45°	6232.9	6258.1	6370.1	6406.5	6321.1	6207.7	6293.1	6407.9	6382.7	6246.9	6217.5
47.5°	6654.4	6678.2	6794.4	6849.0	6741.2	6588.5	6742.6	6892.4	6877.0	6731.4	6717.4
50°	7152.8	7158.4	7319.4	7381.0	7273.2	7141.6	7278.8	7465.0	7403.4	7217.2	7214.4
52.5°	7698.8	7705.8	7908.8	8027.8	7967.6	7819.2	7981.6	8095.0	7938.2	7694.6	7676.4
55°	8172.0	8207.0	8484.2	8800.6	8883.2	8775.4	8824.4	8771.2	8384.8	8043.2	7990.0
57.5°	8365.2	8433.8	8855.2	9446.0	9983.6	10143.2	9765.2	9258.4	8562.6	8079.6	8027.8
60°	7893.4	7967.6	8621.4	9742.8	11114.9	11807.9	10745.2	9341.0	8158.0	7479.0	7397.8
62.5°	6321.1	6342.1	7304.0	9044.2	11774.3	13569.1	11158.3	8636.8	6980.6	6057.9	6025.7
64°	4548.7	4764.3	5783.5	7929.8	11485.9	14239.7	10920.2	7649.8	5670.1	4736.3	4585.1
65°	3402.1	3460.9	4662.1	6772.0	10977.6	14189.3	10458.2	6706.2	4695.7	3624.7	3456.7
67.5°	1285.2	1292.2	1720.6	3375.5	7815.0	12208.3	7981.6	3648.5	1978.2	1430.8	1379.0
70°	533.4	543.2	631.4	1135.4	3358.7	7838.8	3848.7	1316.0	723.8	586.6	578.2
72.5°	390.6	396.2	422.8	504.0	1033.2	3218.7	1265.6	558.6	424.2	379.4	375.2
75°	306.6	309.4	329.0	371.0	481.6	891.8	526.4	383.6	323.4	291.2	288.4
77.5°	233.8	240.8	254.8	282.8	323.4	422.8	348.6	287.0	249.2	222.6	218.4
80°	161.0	169.4	196.0	207.2	217.0	274.4	238.0	217.0	194.6	162.4	152.6
82.5°	99.4	105.0	131.6	141.4	137.2	154.0	152.6	155.4	138.6	100.8	93.8
85°	51.8	54.6	71.4	74.2	68.6	63.0	78.4	91.0	85.4	57.4	56.0
87.5°	11.2	12.6	15.4	14.0	15.4	15.4	19.6	29.4	30.8	19.6	18.2
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)