

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: P453671

Luminaire Tested: **GALN-SA4D-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453671
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-SA4D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26710 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

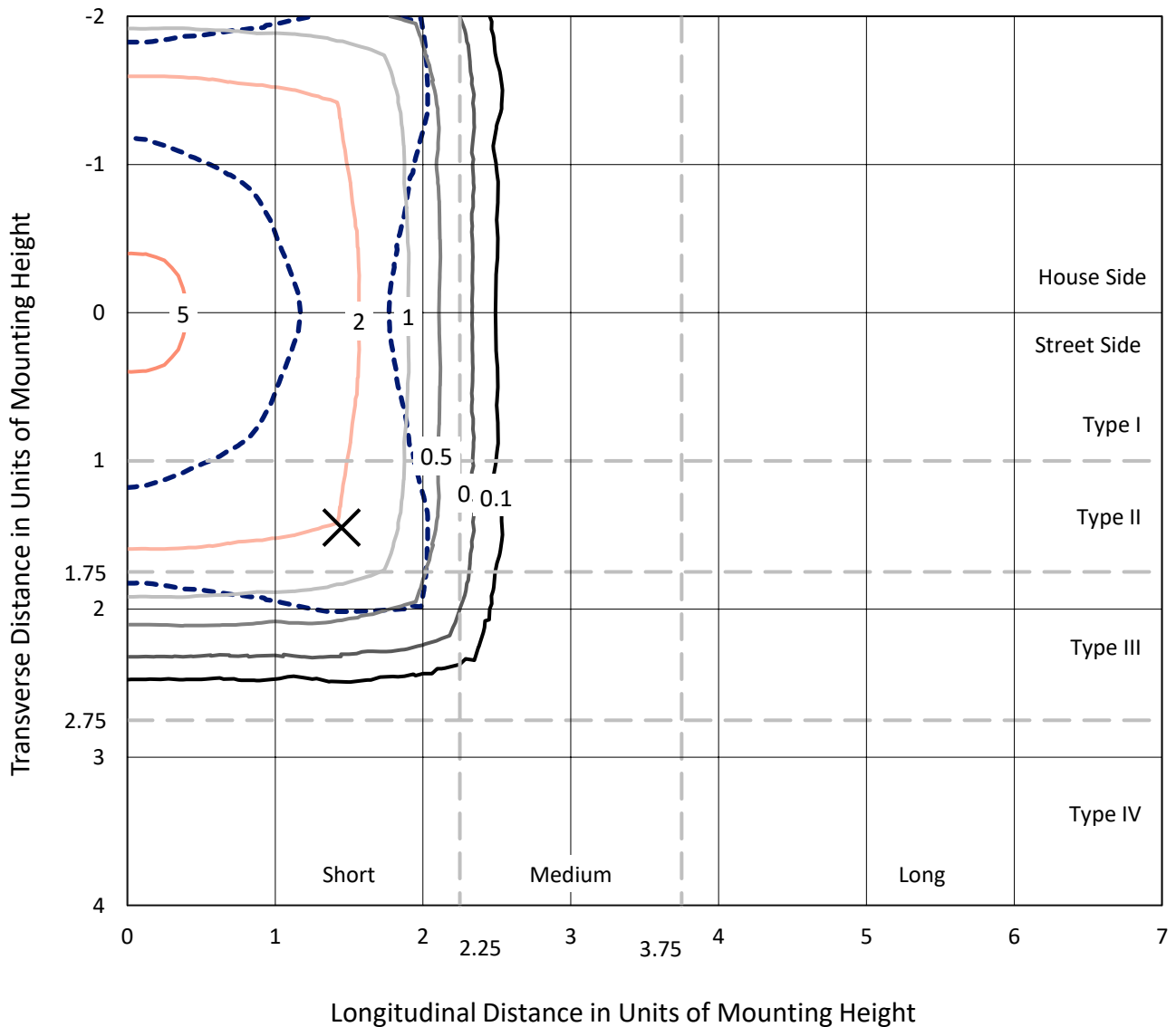
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

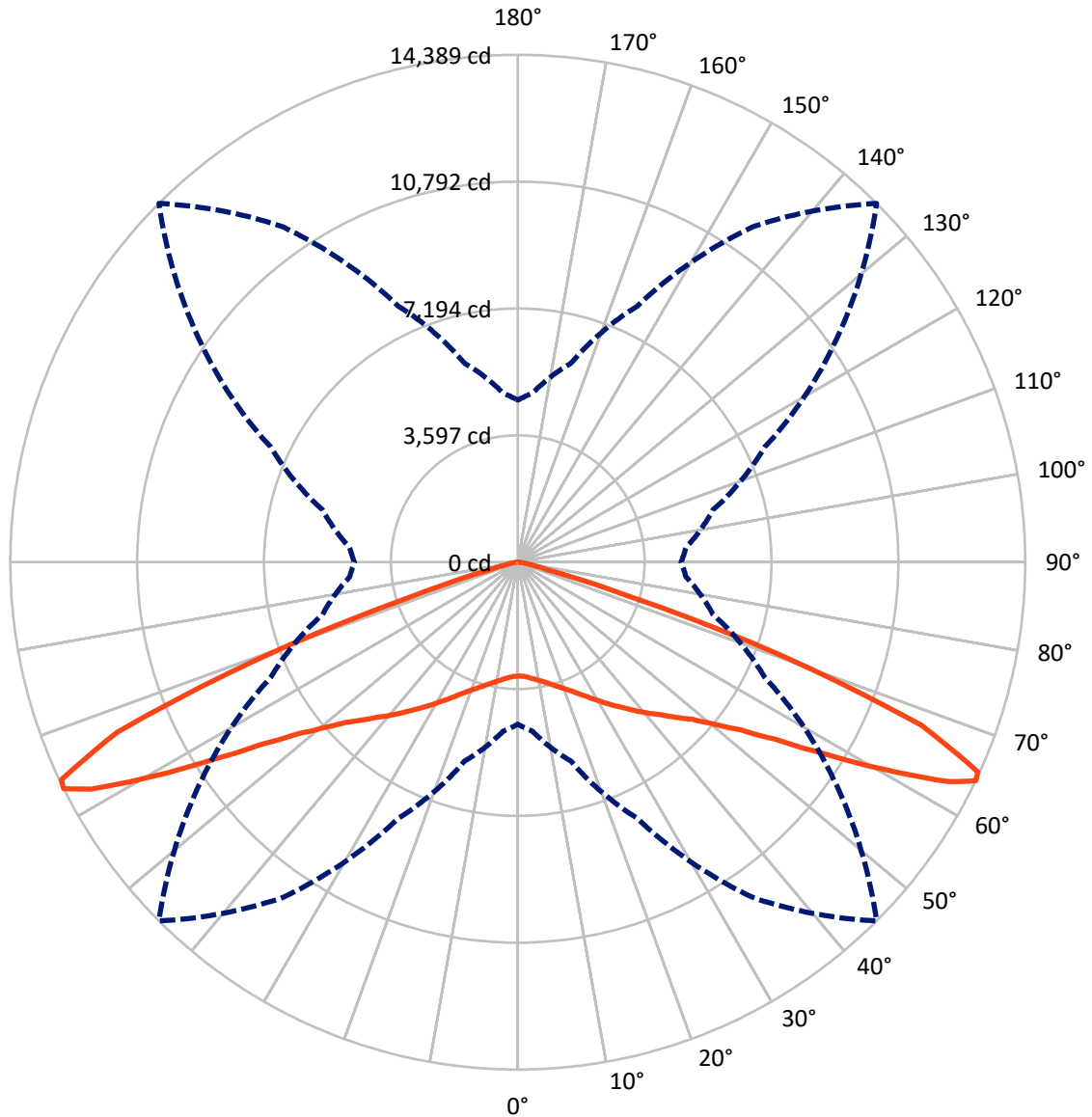
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	13355.0	0.0	13355.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13355.0	0.0	13355.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26710.0	0.0	26710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	1.2
10°-20°	1023.1	3.8
20°-30°	1933.3	7.2
30°-40°	3201.7	12.0
40°-50°	4998.4	18.7
50°-60°	7727.5	28.9
60°-70°	6663.3	24.9
70°-80°	755.1	2.8
80°-90°	90.5	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°	26710.0	100.0
0°-180°	26710.0	100.0

Coefficient of Utilization



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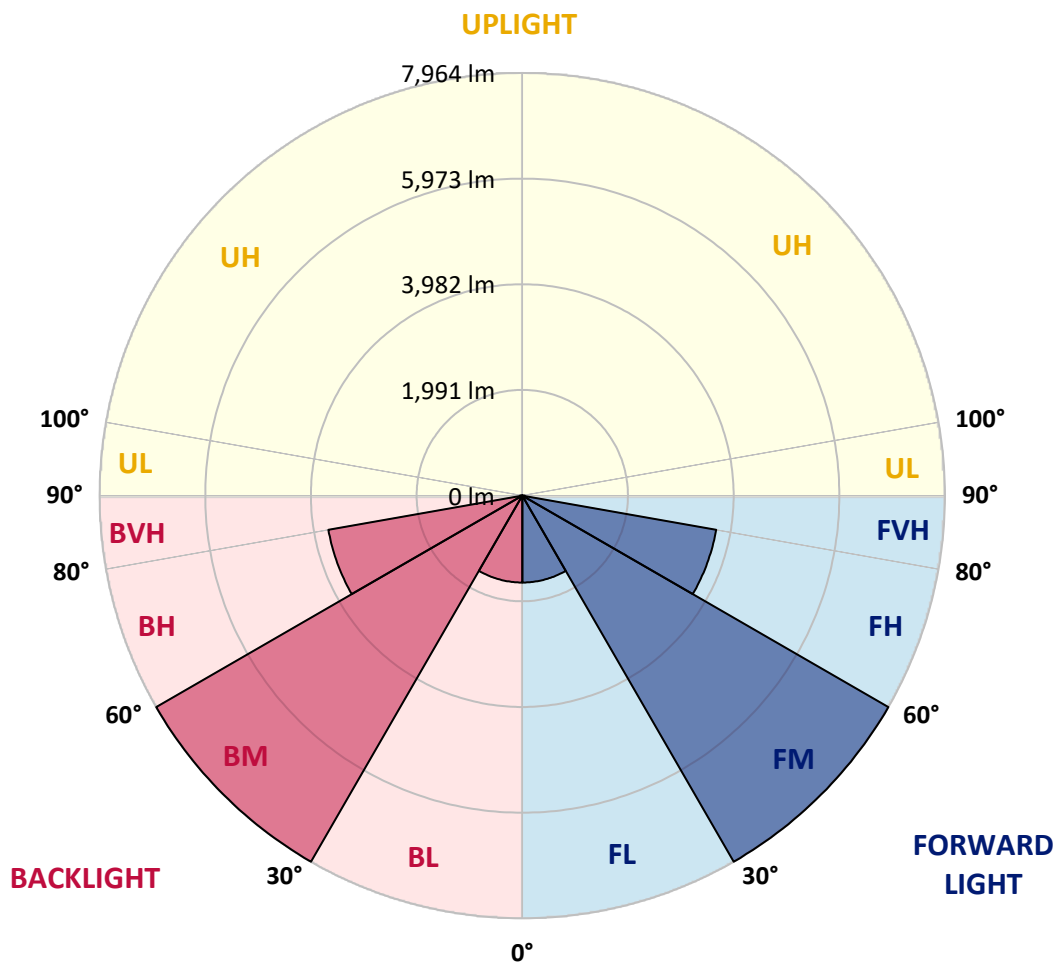
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1636.8	6.1			
FM	(30°-60°)	7963.8	29.8			
FH	(60°-80°)	3709.2	13.9			G2/5000
FVH	(80°-90°)	45.2	0.2			G1/100
BL	(0°-30°)	1636.8	6.1	B3/2500		
BM	(30°-60°)	7963.8	29.8	B4/8500		
BH	(60°-80°)	3709.2	13.9	B4/5000		G2/5000
BVH	(80°-90°)	45.2	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°	3228.4	3228.4	3228.4	3228.4	3228.4	3228.4	3228.4	3228.4	3228.4	3228.4	3228.4
2.5°	3241.1	3248.2	3242.5	3241.1	3239.7	3239.7	3239.7	3241.1	3246.7	3251.0	3248.2
5°	3282.1	3287.8	3284.9	3283.5	3282.1	3283.5	3280.7	3279.3	3283.5	3283.5	3282.1
7.5°	3333.0	3340.1	3337.3	3340.1	3341.5	3342.9	3335.9	3330.2	3328.8	3333.0	3330.2
10°	3402.4	3408.0	3409.4	3410.8	3413.7	3412.3	3403.8	3393.9	3392.5	3391.0	3389.6
12.5°	3480.2	3484.4	3485.8	3491.5	3495.7	3497.1	3487.2	3478.8	3464.6	3467.4	3461.8
15°	3567.9	3576.4	3575.0	3583.4	3594.8	3597.6	3587.7	3573.5	3560.8	3553.7	3549.5
17.5°	3675.4	3681.1	3678.2	3686.7	3700.9	3707.9	3699.4	3681.1	3668.3	3652.8	3644.3
20°	3802.7	3812.6	3815.5	3815.5	3828.2	3835.3	3822.5	3816.9	3797.1	3785.7	3778.7
22.5°	3947.0	3951.3	3959.8	3968.2	3981.0	3978.1	3973.9	3965.4	3947.0	3937.1	3925.8
25°	4109.7	4114.0	4135.2	4153.6	4157.8	4155.0	4149.3	4145.1	4128.1	4105.5	4097.0
27.5°	4299.3	4307.8	4336.1	4353.0	4353.0	4354.5	4343.1	4357.3	4320.5	4293.6	4290.8
30°	4537.0	4542.6	4566.7	4583.6	4575.2	4568.1	4565.2	4579.4	4539.8	4491.7	4480.4
32.5°	4771.8	4791.6	4812.8	4849.6	4819.9	4807.2	4804.3	4814.2	4769.0	4715.2	4699.6
35°	5023.6	5037.8	5077.4	5108.5	5081.6	5051.9	5064.6	5095.8	5042.0	4969.9	4967.0
37.5°	5302.3	5315.0	5366.0	5398.5	5378.7	5327.8	5349.0	5385.8	5332.0	5242.9	5224.5
40°	5592.3	5619.2	5682.9	5716.8	5684.3	5616.4	5656.0	5695.6	5647.5	5544.2	5503.2
42.5°	5917.7	5960.1	6052.1	6069.1	6006.8	5914.9	5984.2	6047.9	6013.9	5895.1	5879.5
45°	6298.3	6323.7	6436.9	6473.7	6387.4	6272.8	6359.1	6475.1	6449.6	6312.4	6282.7
47.5°	6724.1	6748.1	6865.6	6920.7	6811.8	6657.6	6813.2	6964.6	6949.0	6801.9	6787.7
50°	7227.7	7233.4	7396.1	7458.3	7349.4	7216.4	7355.0	7543.2	7481.0	7292.8	7290.0
52.5°	7779.5	7786.5	7991.7	8111.9	8051.1	7901.1	8065.2	8179.8	8021.4	7775.2	7756.8
55°	8257.6	8293.0	8573.1	8892.8	8976.3	8867.4	8916.9	8863.1	8472.7	8127.5	8073.7
57.5°	8452.9	8522.2	8948.0	9545.0	10088.2	10249.5	9867.6	9355.4	8652.3	8164.3	8111.9
60°	7976.1	8051.1	8711.7	9844.9	11231.3	11931.6	10857.8	9438.9	8243.5	7557.3	7475.3
62.5°	6387.4	6408.6	7380.5	9139.0	11897.7	13711.3	11275.2	8727.3	7053.7	6121.4	6088.9
64°	4596.4	4814.2	5844.1	8012.9	11606.2	14388.9	11034.7	7729.9	5729.5	4785.9	4633.2
65°	3437.7	3497.1	4711.0	6842.9	11092.7	14338.0	10567.8	6776.4	4744.9	3662.7	3492.9
67.5°	1298.7	1305.8	1738.7	3410.8	7896.9	12336.2	8065.2	3686.7	1999.0	1445.8	1393.5
70°	539.0	548.9	638.0	1147.3	3393.9	7920.9	3889.0	1329.8	731.4	592.8	584.3
72.5°	394.7	400.4	427.2	509.3	1044.1	3252.4	1278.9	564.5	428.7	383.4	379.1
75°	309.8	312.6	332.5	374.9	486.7	901.2	531.9	387.6	326.8	294.3	291.4
77.5°	236.3	243.3	257.5	285.8	326.8	427.2	352.3	290.0	251.8	224.9	220.7
80°	162.7	171.2	198.1	209.4	219.3	277.3	240.5	219.3	196.6	164.1	154.2
82.5°	100.4	106.1	133.0	142.9	138.6	155.6	154.2	157.0	140.1	101.9	94.8
85°	52.3	55.2	72.1	75.0	69.3	63.7	79.2	92.0	86.3	58.0	56.6
87.5°	11.3	12.7	15.6	14.1	15.6	15.6	19.8	29.7	31.1	19.8	18.4
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)