

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: P454367

Luminaire Tested: **GALN-SA5C-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454367
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-SA5C-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 30729 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

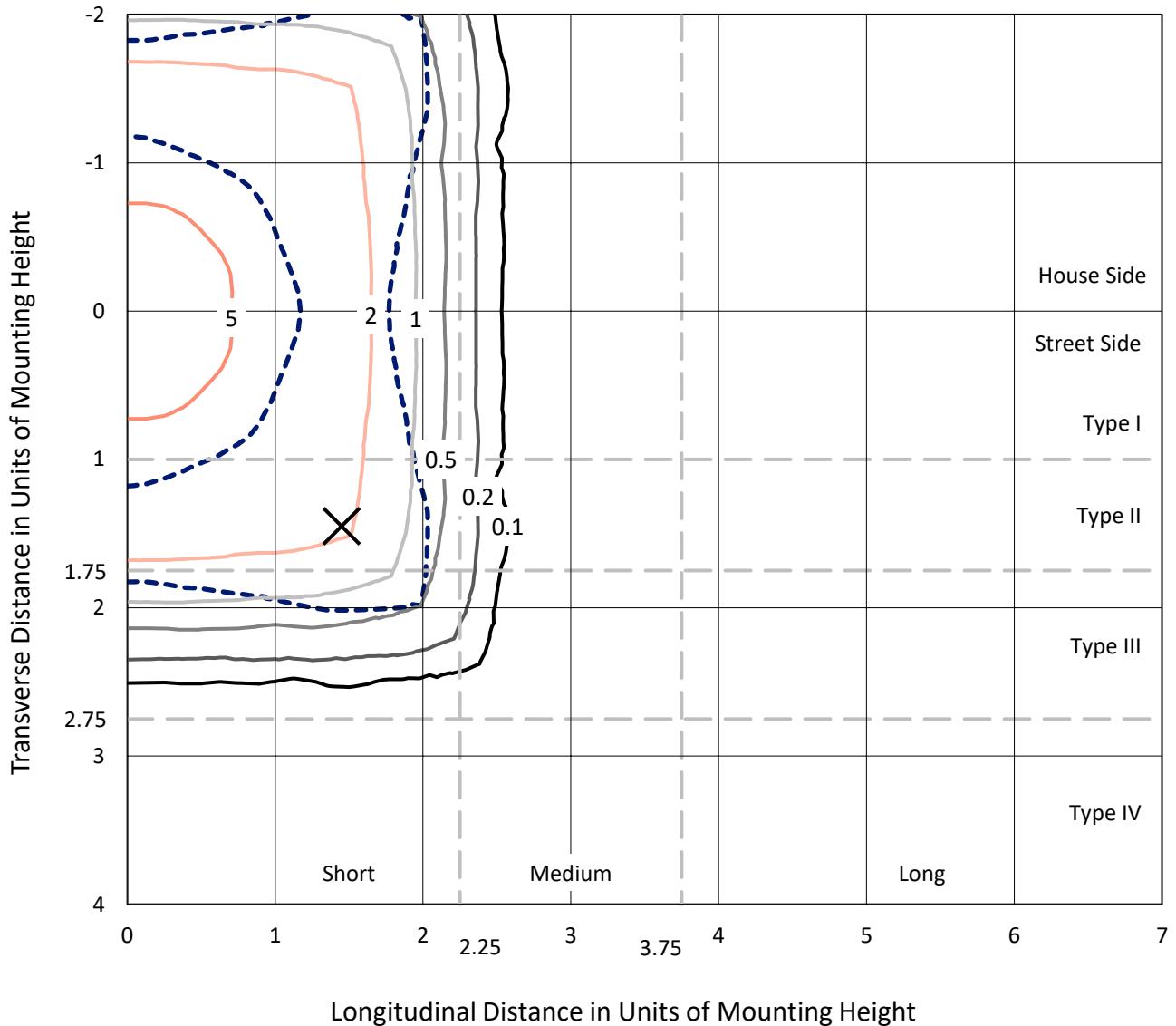
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

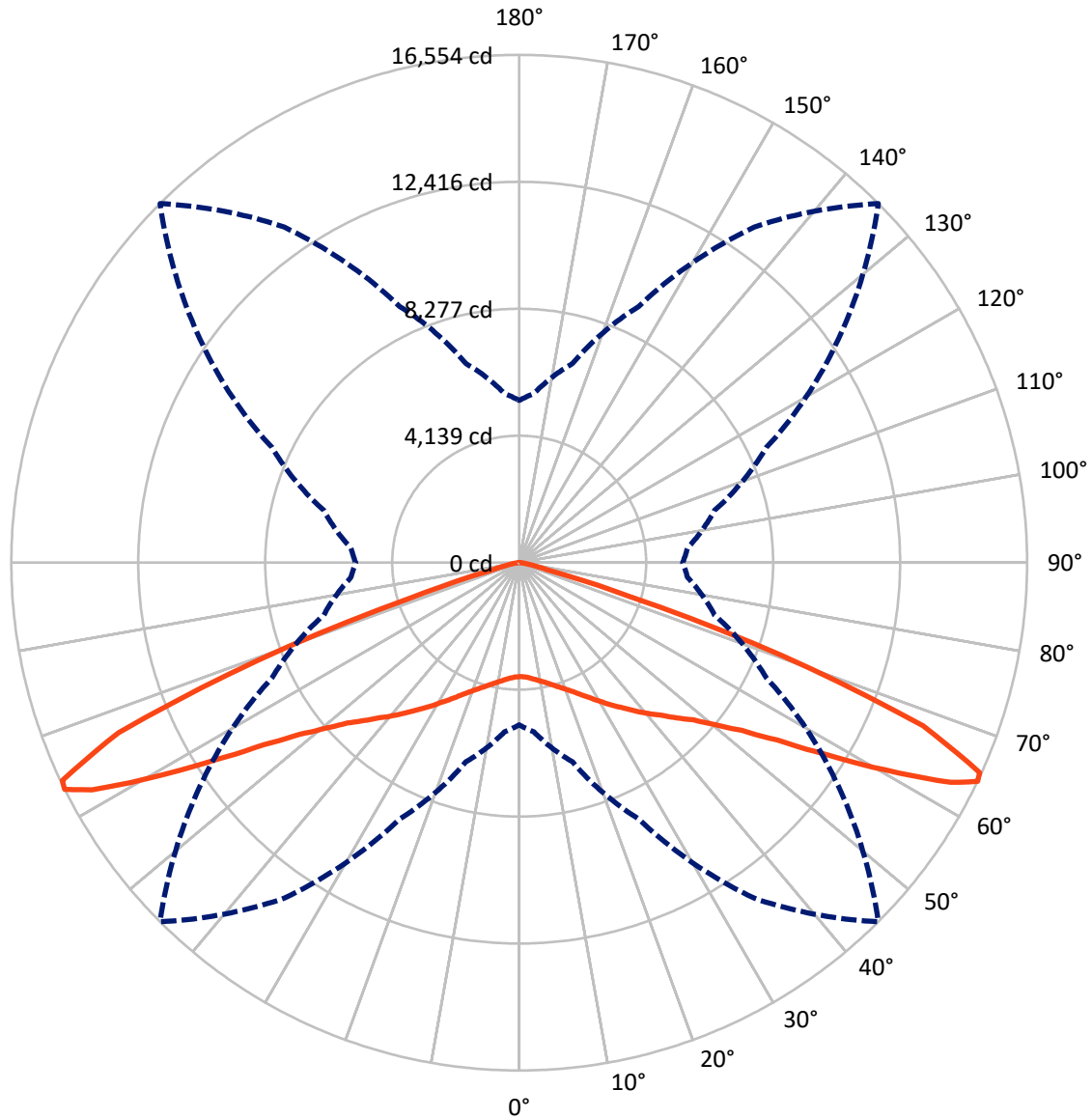
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	15364.5	0.0	15364.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15364.5	0.0	15364.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30729.0	0.0	30729.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.2
10°-20°	1177.0	3.8
20°-30°	2224.2	7.2
30°-40°	3683.5	12.0
40°-50°	5750.5	18.7
50°-60°	8890.2	28.9
60°-70°	7665.9	24.9
70°-80°	868.8	2.8
80°-90°	104.1	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°	30729.0	100.0
0°-180°	30729.0	100.0



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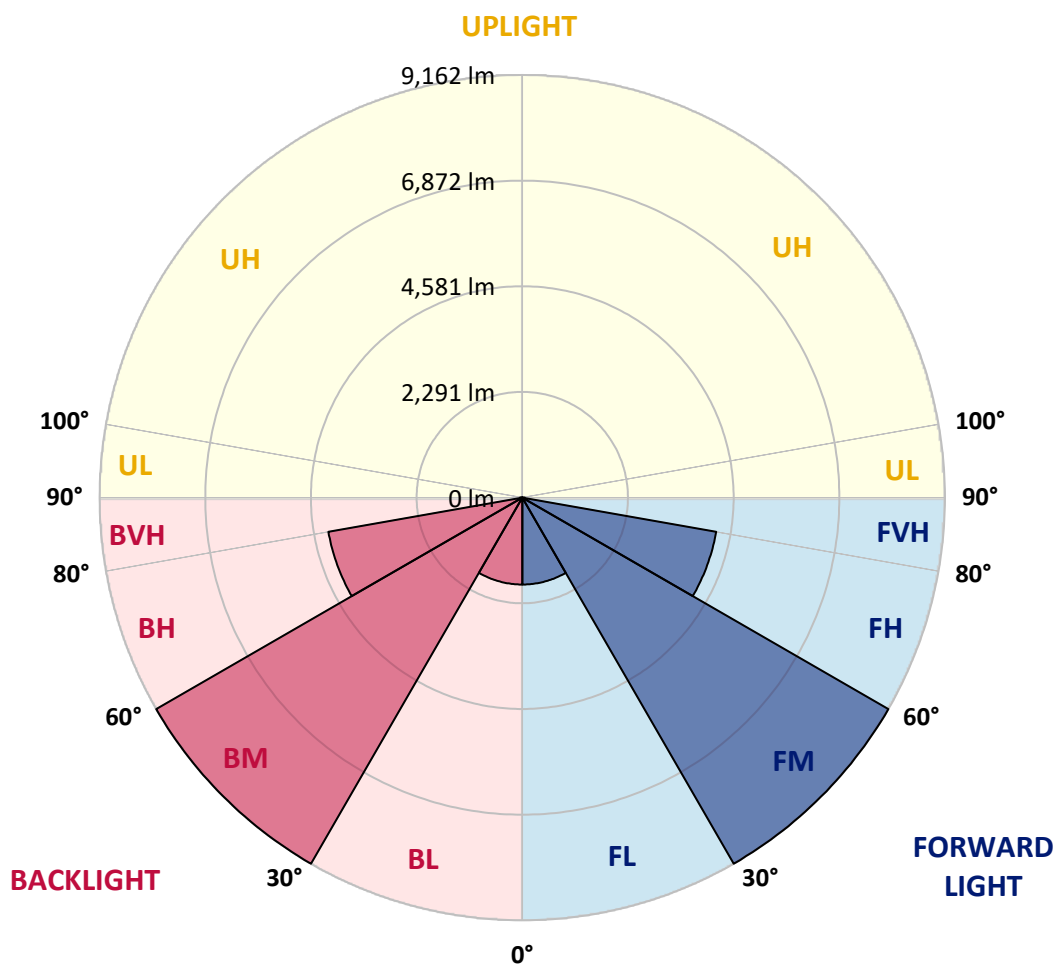
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1883.0	6.1			
FM	(30°-60°)	9162.1	29.8			
FH	(60°-80°)	4267.3	13.9			G2/5000
FVH	(80°-90°)	52.0	0.2			G1/100
BL	(0°-30°)	1883.0	6.1	B3/2500		
BM	(30°-60°)	9162.1	29.8	B5		
BH	(60°-80°)	4267.3	13.9	B4/5000		G2/5000
BVH	(80°-90°)	52.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3714.1	3714.1	3714.1	3714.1	3714.1	3714.1	3714.1	3714.1	3714.1	3714.1	3714.1
2.5°	3728.8	3736.9	3730.4	3728.8	3727.1	3727.1	3727.1	3728.8	3735.3	3740.2	3736.9
5°	3776.0	3782.5	3779.2	3777.6	3776.0	3777.6	3774.3	3772.7	3777.6	3777.6	3776.0
7.5°	3834.6	3842.7	3839.4	3842.7	3844.3	3845.9	3837.8	3831.3	3829.7	3834.6	3831.3
10°	3914.3	3920.8	3922.4	3924.1	3927.3	3925.7	3915.9	3904.5	3902.9	3901.3	3899.7
12.5°	4003.8	4008.7	4010.3	4016.8	4021.7	4023.4	4012.0	4002.2	3985.9	3989.2	3982.7
15°	4104.7	4114.5	4112.9	4122.6	4135.7	4138.9	4127.5	4111.2	4096.6	4088.5	4083.6
17.5°	4228.4	4234.9	4231.7	4241.4	4257.7	4265.9	4256.1	4234.9	4220.3	4202.4	4192.6
20°	4374.9	4386.3	4389.6	4389.6	4404.2	4412.3	4397.7	4391.2	4368.4	4355.4	4347.2
22.5°	4540.9	4545.8	4555.6	4565.3	4580.0	4576.7	4571.8	4562.1	4540.9	4529.5	4516.5
25°	4728.1	4733.0	4757.4	4778.5	4783.4	4780.2	4773.7	4768.8	4749.3	4723.2	4713.4
27.5°	4946.2	4956.0	4988.5	5008.0	5008.0	5009.7	4996.6	5012.9	4970.6	4939.7	4936.4
30°	5219.6	5226.1	5253.8	5273.3	5263.6	5255.4	5252.2	5268.4	5222.9	5167.5	5154.5
32.5°	5489.8	5512.6	5537.0	5579.3	5545.1	5530.5	5527.2	5538.6	5486.5	5424.7	5406.8
35°	5779.5	5795.8	5841.4	5877.2	5846.2	5812.1	5826.7	5862.5	5800.7	5717.7	5714.4
37.5°	6100.1	6114.8	6173.4	6210.8	6188.0	6129.4	6153.8	6196.2	6134.3	6031.8	6010.6
40°	6433.8	6464.7	6538.0	6577.0	6539.6	6461.5	6507.0	6552.6	6497.3	6378.4	6331.3
42.5°	6808.1	6857.0	6962.7	6982.3	6910.7	6804.9	6884.6	6957.9	6918.8	6782.1	6764.2
45°	7245.9	7275.2	7405.4	7447.8	7348.5	7216.6	7315.9	7449.4	7420.1	7262.2	7228.0
47.5°	7735.8	7763.5	7898.6	7962.1	7836.8	7659.3	7838.4	8012.5	7994.6	7825.4	7809.1
50°	8315.3	8321.8	8508.9	8580.6	8455.2	8302.2	8461.7	8678.2	8606.6	8390.1	8386.9
52.5°	8950.0	8958.1	9194.1	9332.5	9262.5	9090.0	9278.8	9410.6	9228.3	8945.1	8924.0
55°	9500.1	9540.8	9863.1	10230.9	10326.9	10201.6	10258.6	10196.7	9747.5	9350.4	9288.5
57.5°	9724.7	9804.5	10294.4	10981.2	11606.2	11791.7	11352.3	10763.1	9954.2	9392.7	9332.5
60°	9176.2	9262.5	10022.6	11326.3	12921.3	13726.9	12491.6	10859.2	9483.9	8694.5	8600.1
62.5°	7348.5	7372.9	8491.0	10514.1	13687.9	15774.4	12971.7	10040.5	8115.1	7042.5	7005.1
64°	5288.0	5538.6	6723.5	9218.6	13352.6	16554.0	12695.1	8893.0	6591.7	5506.1	5330.3
65°	3955.0	4023.4	5419.8	7872.6	12761.8	16495.4	12158.0	7796.1	5458.9	4213.8	4018.5
67.5°	1494.1	1502.2	2000.3	3924.1	9085.1	14192.4	9278.8	4241.4	2299.8	1663.4	1603.2
70°	620.1	631.5	734.0	1320.0	3904.5	9112.8	4474.2	1529.9	841.5	682.0	672.2
72.5°	454.1	460.6	491.5	585.9	1201.1	3741.8	1471.3	649.4	493.2	441.1	436.2
75°	356.4	359.7	382.5	431.3	559.9	1036.8	612.0	446.0	376.0	338.5	335.3
77.5°	271.8	279.9	296.2	328.8	376.0	491.5	405.3	333.7	289.7	258.8	253.9
80°	187.2	196.9	227.9	240.9	252.3	319.0	276.7	252.3	226.2	188.8	177.4
82.5°	115.6	122.1	153.0	164.4	159.5	179.0	177.4	180.7	161.1	117.2	109.0
85°	60.2	63.5	83.0	86.3	79.8	73.2	91.1	105.8	99.3	66.7	65.1
87.5°	13.0	14.6	17.9	16.3	17.9	17.9	22.8	34.2	35.8	22.8	21.2
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)