

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: P455299

Luminaire Tested: **GALN-SA6C-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35972 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

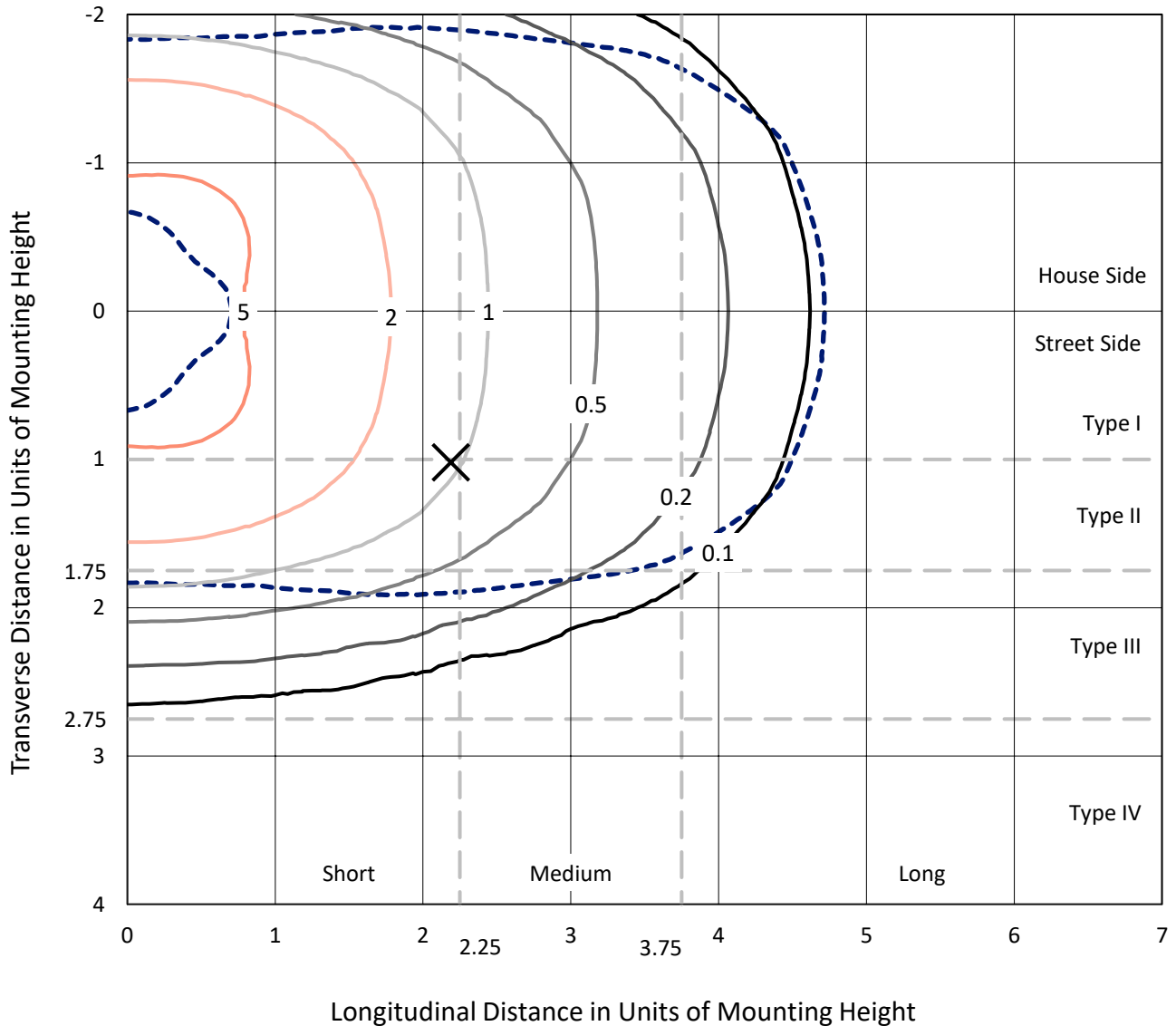
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

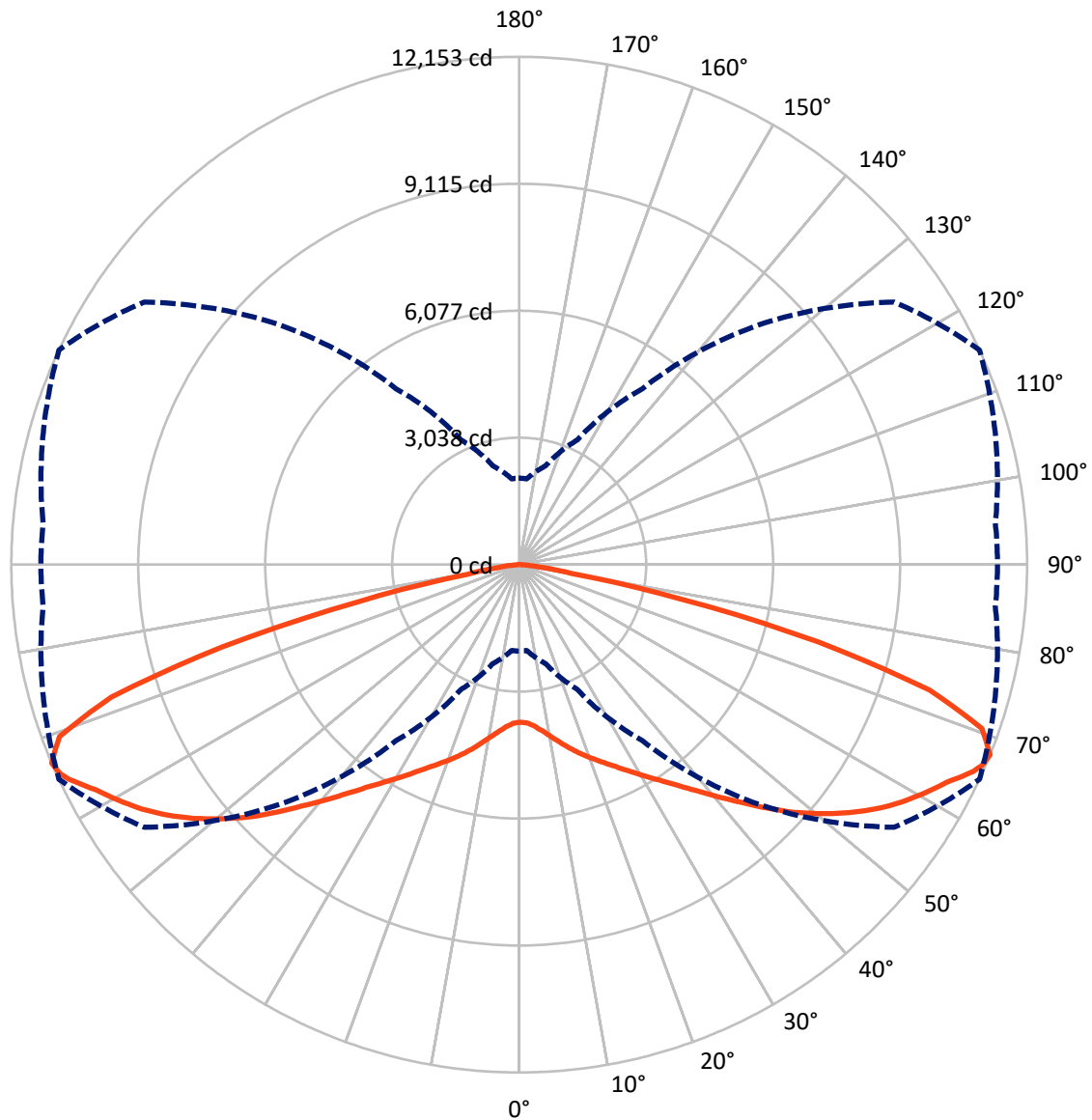
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17986.0	0.0	17986.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17986.0	0.0	17986.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35972.0	0.0	35972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.6	1.0
10°-20°	1243.7	3.5
20°-30°	2432.8	6.8
30°-40°	4137.9	11.5
40°-50°	6549.0	18.2
50°-60°	8683.9	24.1
60°-70°	8191.5	22.8
70°-80°	4049.5	11.3
80°-90°	312.1	0.9
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°	35972.0	100.0
0°-180°	35972.0	100.0

Coefficient of Utilization



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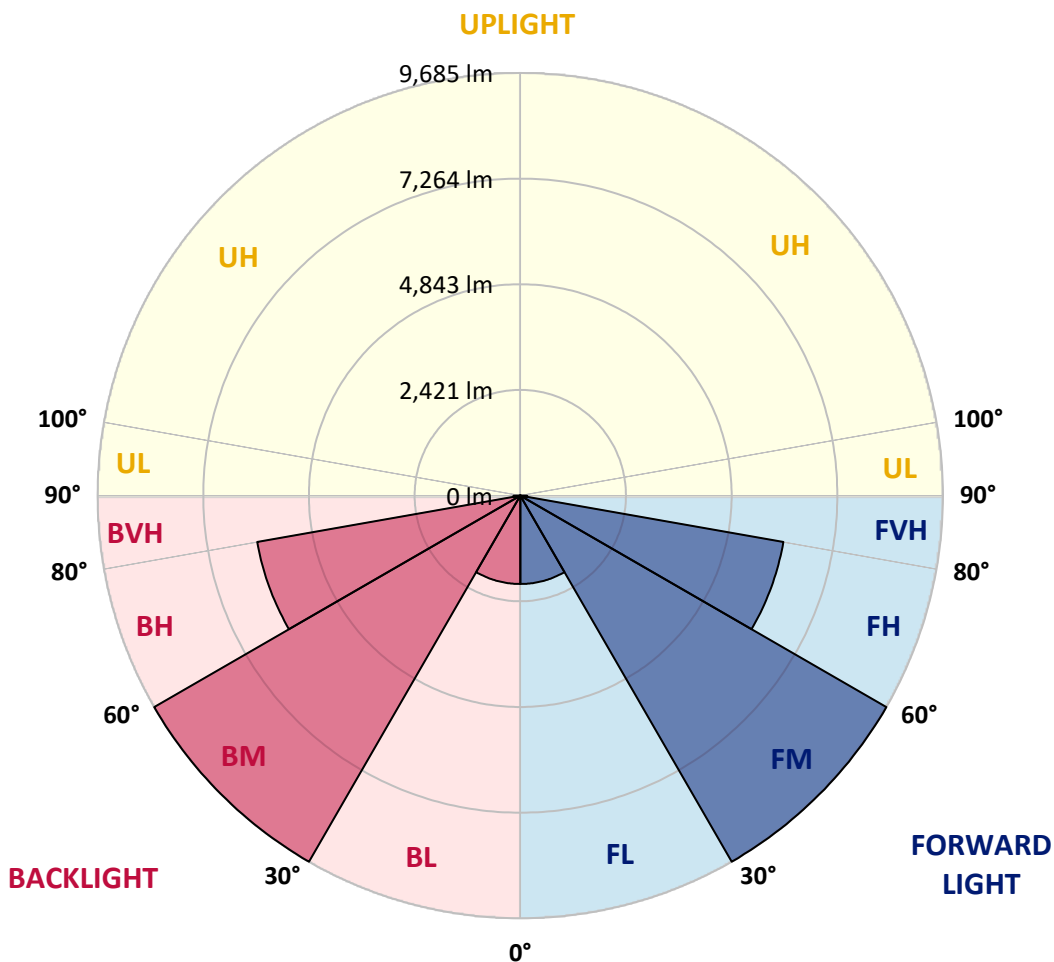
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2024.1	5.6			
FM	(30°-60°)	9685.4	26.9			
FH	(60°-80°)	6120.5	17.0			G3/7500
FVH	(80°-90°)	156.0	0.4			G2/225
BL	(0°-30°)	2024.1	5.6	B3/2500		
BM	(30°-60°)	9685.4	26.9	B5		
BH	(60°-80°)	6120.5	17.0	B5		G5
BVH	(80°-90°)	156.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7
2.5°	3748.5	3752.3	3756.2	3762.0	3769.7	3781.2	3788.9	3794.7	3810.1	3812.1	3810.1
5°	3735.0	3738.8	3748.5	3765.8	3790.9	3825.6	3852.5	3885.3	3910.4	3927.7	3923.9
7.5°	3733.1	3740.8	3756.2	3792.8	3841.0	3900.7	3962.4	4018.3	4066.5	4105.0	4099.2
10°	3763.9	3773.5	3798.6	3852.5	3927.7	4014.4	4101.2	4184.0	4253.4	4303.5	4320.9
12.5°	3815.9	3823.6	3869.9	3950.8	4058.8	4166.7	4265.0	4367.1	4463.5	4548.3	4548.3
15°	3906.5	3920.0	3977.8	4095.4	4228.4	4353.6	4453.8	4561.8	4665.8	4762.2	4791.1
17.5°	4031.8	4051.1	4137.8	4288.1	4457.7	4573.3	4667.8	4756.4	4847.0	4939.5	4953.0
20°	4203.3	4222.6	4338.2	4519.4	4719.8	4858.6	4922.2	4943.4	4987.7	5076.3	5087.9
22.5°	4436.5	4455.8	4584.9	4789.2	5012.7	5163.1	5190.1	5139.9	5128.4	5197.8	5205.5
25°	4700.5	4717.9	4866.3	5086.0	5317.2	5481.1	5473.4	5350.0	5280.6	5323.0	5334.6
27.5°	4997.3	5022.4	5172.7	5400.1	5650.7	5795.2	5772.1	5592.8	5444.4	5436.7	5440.6
30°	5377.0	5404.0	5546.6	5764.4	6011.1	6144.0	6095.9	5854.9	5625.6	5548.5	5548.5
32.5°	5777.9	5845.3	5989.9	6217.3	6410.0	6506.4	6433.1	6144.0	5839.5	5731.6	5725.8
35°	6300.1	6336.8	6479.4	6701.0	6845.5	6920.7	6780.0	6469.7	6119.0	5991.8	5974.4
37.5°	6810.9	6841.7	7007.4	7219.4	7394.8	7391.0	7200.2	6857.1	6465.9	6323.3	6311.7
40°	7333.1	7365.9	7554.8	7749.4	7924.8	7909.4	7678.1	7294.6	6878.3	6718.4	6749.2
42.5°	7786.0	7822.7	8036.6	8314.1	8472.1	8468.3	8200.4	7768.7	7335.1	7192.5	7219.4
45°	8198.5	8231.2	8479.8	8797.8	9029.1	9058.0	8765.1	8308.3	7863.1	7680.0	7687.8
47.5°	8489.5	8551.2	8811.3	9175.6	9489.7	9591.9	9304.7	8857.6	8344.9	8154.1	8165.7
50°	8711.1	8749.7	9033.0	9447.3	9844.3	10056.3	9825.1	9366.4	8826.7	8624.4	8651.4
52.5°	8738.1	8784.3	9092.7	9570.7	10079.5	10401.3	10287.6	9863.6	9318.2	9110.1	9167.9
55°	8518.4	8545.4	8913.5	9493.6	10172.0	10657.6	10686.5	10326.1	9786.5	9628.5	9667.0
57.5°	7892.0	7961.4	8427.8	9133.2	10044.8	10794.5	10985.3	10746.3	10260.6	10104.5	10166.2
60°	6864.8	6934.2	7402.5	8296.8	9564.9	10730.9	11231.9	11118.2	10690.4	10565.1	10597.9
62.5°	5378.9	5373.1	5953.2	7049.8	8610.9	10418.6	11415.0	11476.7	11114.4	10956.3	11006.5
65°	3486.4	3503.7	4064.5	5245.9	7171.3	9624.6	11455.5	11933.5	11530.7	11291.7	11328.3
66°	2804.1	2856.2	3332.2	4421.1	6437.0	9104.3	11334.1	12068.4	11657.9	11368.8	11386.1
67.5°	2069.9	2060.2	2451.4	3291.7	5139.9	8115.6	10954.4	12153.2	11802.4	11438.2	11445.9
70°	1181.4	1179.5	1318.2	1807.7	3021.9	5714.3	9233.4	11746.5	12095.3	11688.7	11667.5
72.5°	863.4	857.6	876.9	998.3	1474.3	2885.1	6369.5	10266.4	11945.0	11648.2	11588.5
75°	724.6	720.8	716.9	732.4	826.8	1306.7	3380.4	7385.2	10364.7	10933.2	10871.5
77.5°	591.7	591.7	593.6	589.7	593.6	688.0	1401.1	3958.5	6311.7	7046.0	7217.5
80°	462.5	460.6	493.4	479.9	449.0	441.3	620.6	1273.9	2094.9	2083.3	1719.1
82.5°	341.1	318.0	375.8	366.2	331.5	281.4	362.3	543.5	699.6	454.8	337.3
85°	215.9	213.9	266.0	242.8	202.4	133.0	173.5	233.2	289.1	175.4	142.6
87.5°	38.5	36.6	84.8	61.7	61.7	38.5	48.2	63.6	94.4	65.5	48.2
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)