

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: P455527

Luminaire Tested: **GALN-SA6D-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455527
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-SA6D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 40038 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

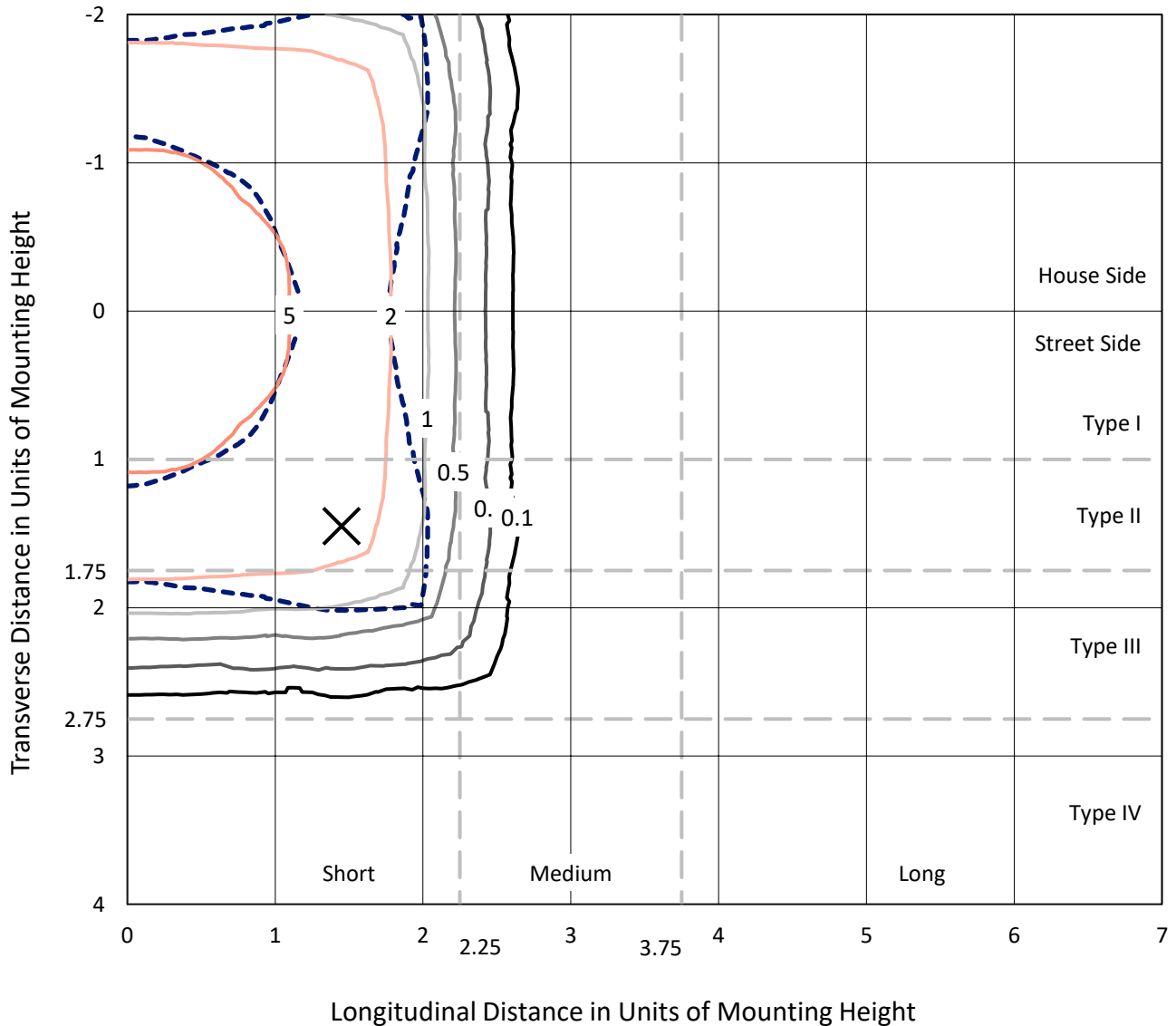
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

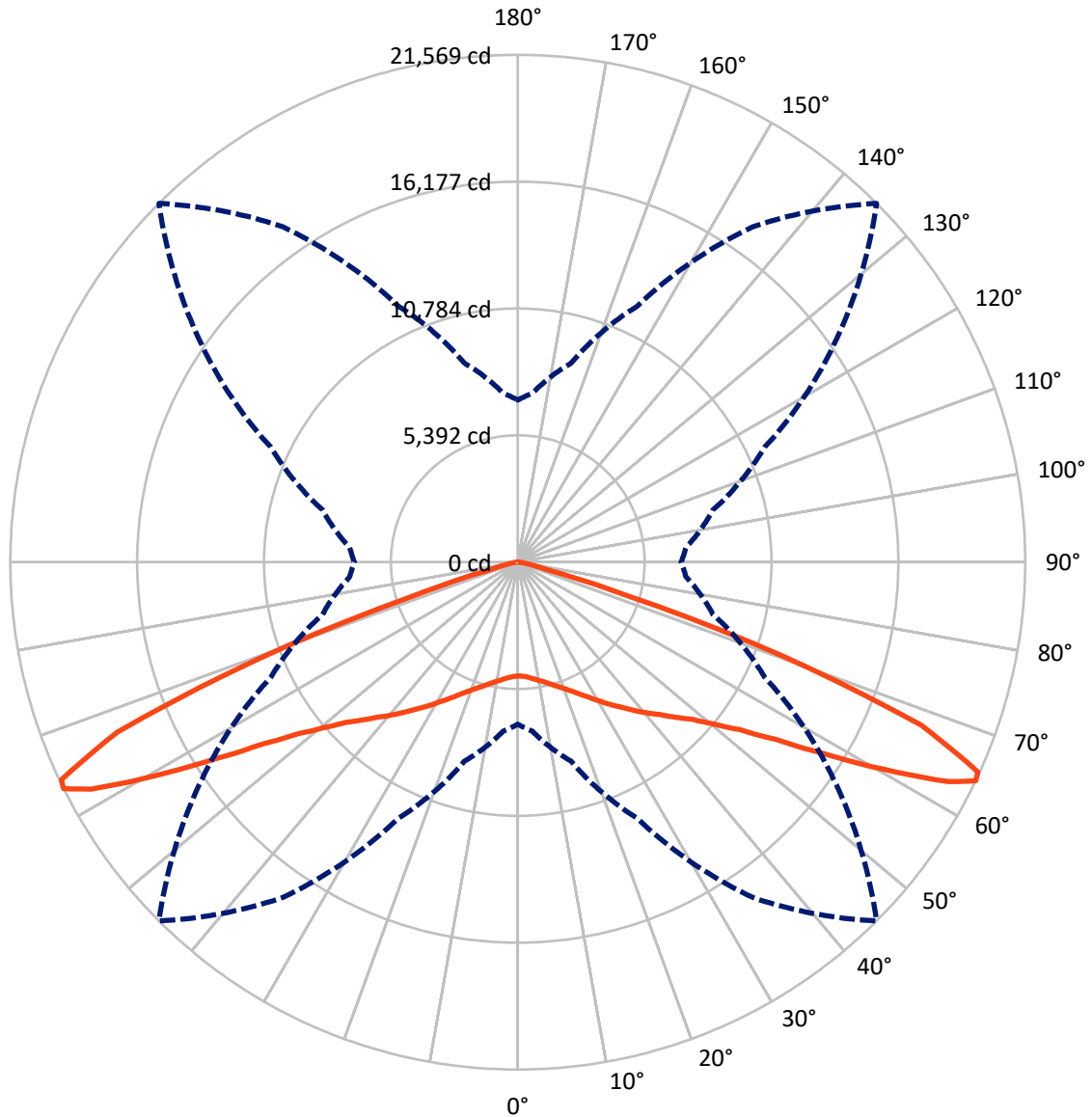
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	20019.0	0.0	20019.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20019.0	0.0	20019.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40038.0	0.0	40038.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.4	1.2
10°-20°	1533.5	3.8
20°-30°	2898.0	7.2
30°-40°	4799.4	12.0
40°-50°	7492.6	18.7
50°-60°	11583.4	28.9
60°-70°	9988.2	24.9
70°-80°	1131.9	2.8
80°-90°	135.6	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°	40038.0	100.0
0°-180°	40038.0	100.0



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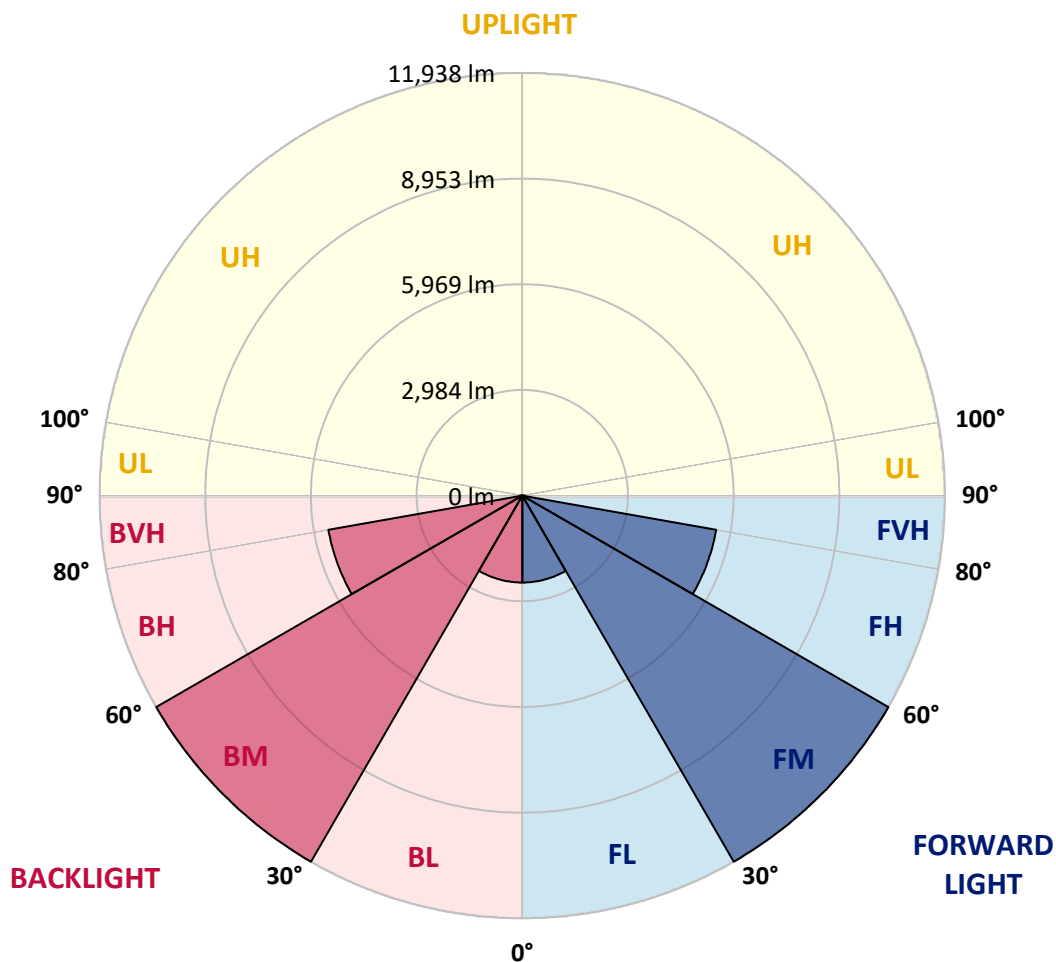
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2453.5	6.1			
FM	(30°-60°)	11937.7	29.8			
FH	(60°-80°)	5560.1	13.9			G3/7500
FVH	(80°-90°)	67.8	0.2			G1/100
BL	(0°-30°)	2453.5	6.1	B3/2500		
BM	(30°-60°)	11937.7	29.8	B5		
BH	(60°-80°)	5560.1	13.9	B5		G3/7500
BVH	(80°-90°)	67.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4839.3	4839.3	4839.3	4839.3	4839.3	4839.3	4839.3	4839.3	4839.3	4839.3	4839.3
2.5°	4858.4	4869.0	4860.5	4858.4	4856.2	4856.2	4858.4	4866.8	4873.2	4869.0	
5°	4919.8	4928.3	4924.1	4922.0	4919.8	4922.0	4917.7	4915.6	4922.0	4919.8	
7.5°	4996.2	5006.8	5002.6	5006.8	5008.9	5011.0	5000.4	4992.0	4989.8	4996.2	4992.0
10°	5100.1	5108.6	5110.7	5112.8	5117.1	5114.9	5102.2	5087.4	5085.3	5083.1	5081.0
12.5°	5216.7	5223.1	5225.2	5233.7	5240.1	5242.2	5227.3	5214.6	5193.4	5197.7	5189.2
15°	5348.2	5360.9	5358.8	5371.5	5388.5	5392.7	5377.9	5356.7	5337.6	5327.0	5320.6
17.5°	5509.4	5517.9	5513.6	5526.3	5547.6	5558.2	5545.4	5517.9	5498.8	5475.5	5462.7
20°	5700.2	5715.1	5719.3	5719.3	5738.4	5749.0	5729.9	5721.4	5691.8	5674.8	5664.2
22.5°	5916.5	5922.9	5935.6	5948.4	5967.4	5963.2	5956.8	5944.1	5916.5	5901.7	5884.7
25°	6160.4	6166.8	6198.6	6226.2	6232.5	6228.3	6219.8	6213.4	6188.0	6154.1	6141.3
27.5°	6444.6	6457.3	6499.7	6525.2	6525.2	6527.3	6510.3	6531.5	6476.4	6436.1	6431.9
30°	6800.8	6809.3	6845.4	6870.8	6858.1	6847.5	6843.3	6864.5	6805.1	6733.0	6716.0
32.5°	7152.9	7182.6	7214.4	7269.5	7225.0	7205.9	7201.6	7216.5	7148.6	7068.0	7044.7
35°	7530.3	7551.5	7610.9	7657.6	7617.3	7572.8	7591.8	7638.5	7557.9	7449.8	7445.5
37.5°	7948.1	7967.2	8043.5	8092.3	8062.6	7986.3	8018.1	8073.2	7992.6	7859.0	7831.5
40°	8382.8	8423.1	8518.5	8569.4	8520.7	8418.9	8478.3	8537.6	8465.5	8310.7	8249.2
42.5°	8870.6	8934.2	9072.0	9097.5	9004.2	8866.3	8970.2	9065.7	9014.8	8836.6	8813.3
45°	9441.0	9479.2	9648.8	9704.0	9574.6	9402.8	9532.2	9706.1	9667.9	9462.2	9417.7
47.5°	10079.3	10115.4	10291.4	10374.1	10210.8	9979.7	10212.9	10439.8	10416.5	10196.0	10174.8
50°	10834.3	10842.8	11086.6	11179.9	11016.6	10817.3	11025.1	11307.2	11213.9	10931.8	10927.6
52.5°	11661.3	11671.9	11979.4	12159.7	12068.5	11843.7	12089.7	12261.5	12023.9	11655.0	11627.4
55°	12378.1	12431.1	12851.0	13330.2	13455.4	13292.1	13366.3	13285.7	12700.4	12183.0	12102.4
57.5°	12670.7	12774.6	13413.0	14307.9	15122.2	15363.9	14791.4	14023.7	12969.7	12238.1	12159.7
60°	11956.1	12068.5	13058.8	14757.4	16835.6	17885.3	16275.8	14148.8	12356.9	11328.4	11205.4
62.5°	9574.6	9606.4	11063.3	13699.2	17834.5	20553.1	16901.4	13082.1	10573.4	9175.9	9127.2
64°	6889.9	7216.5	8760.3	12011.2	17397.6	21568.9	16540.9	11587.1	8588.5	7174.1	6945.0
65°	5153.1	5242.2	7061.7	10257.5	16627.8	21492.5	15841.1	10157.8	7112.6	5490.3	5235.8
67.5°	1946.7	1957.3	2606.2	5112.8	11837.3	18491.8	12089.7	5526.3	2996.4	2167.3	2088.8
70°	808.0	822.8	956.4	1719.8	5087.4	11873.4	5829.6	1993.4	1096.4	888.5	875.8
72.5°	591.7	600.1	640.4	763.4	1565.0	4875.3	1917.0	846.1	642.5	574.7	568.3
75°	464.4	468.7	498.3	562.0	729.5	1350.8	797.4	581.1	489.9	441.1	436.8
77.5°	354.1	364.7	386.0	428.4	489.9	640.4	528.0	434.7	377.5	337.2	330.8
80°	243.9	256.6	296.9	313.9	328.7	415.6	360.5	328.7	294.8	246.0	231.1
82.5°	150.6	159.0	199.3	214.2	207.8	233.3	231.1	235.4	209.9	152.7	142.1
85°	78.5	82.7	108.2	112.4	103.9	95.4	118.8	137.8	129.4	86.9	84.8
87.5°	17.0	19.1	23.3	21.2	23.3	23.3	29.7	44.5	46.7	29.7	27.6
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)