

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: P532357

Luminaire Tested: **GALN-SA7D-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30956 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

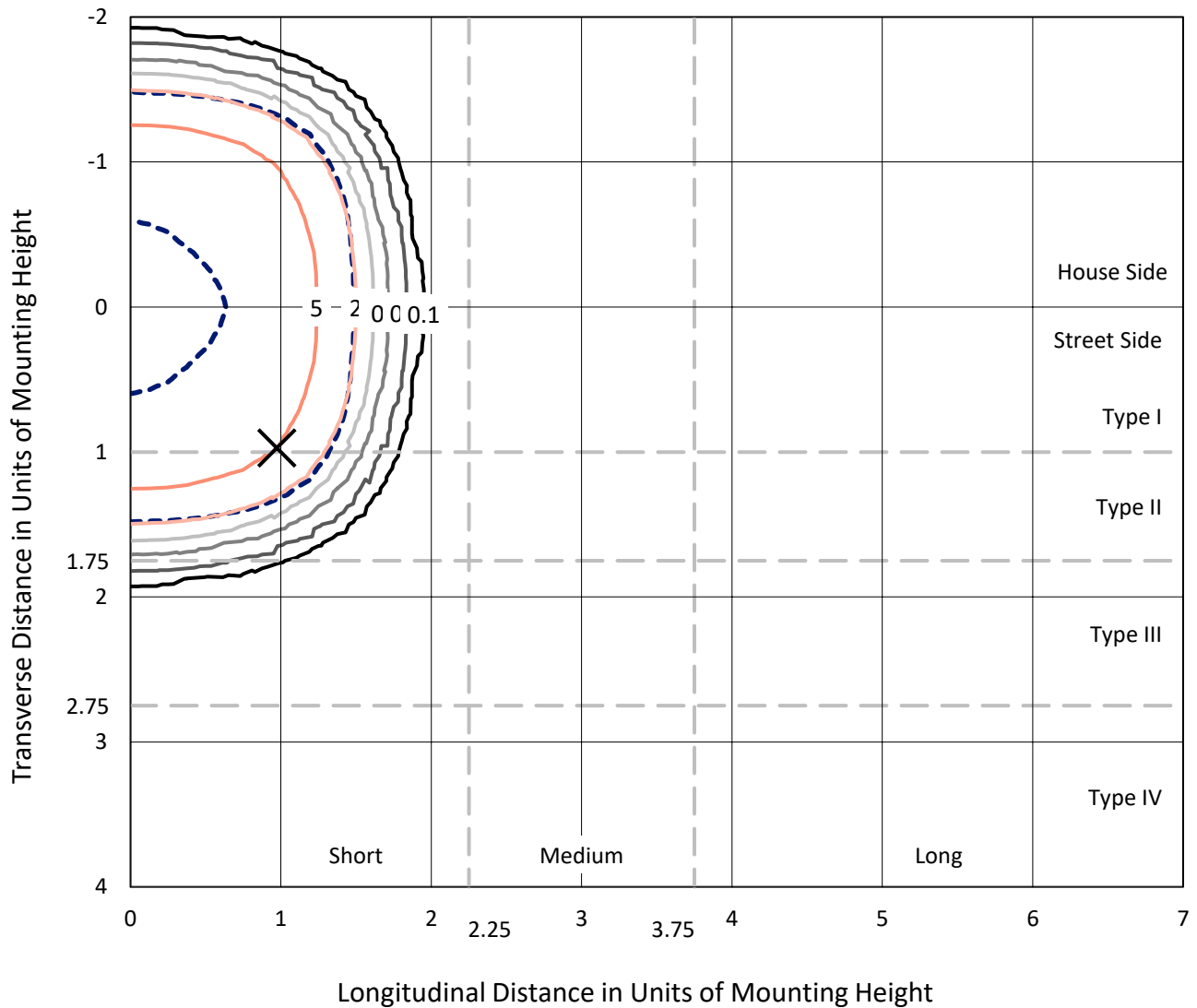
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

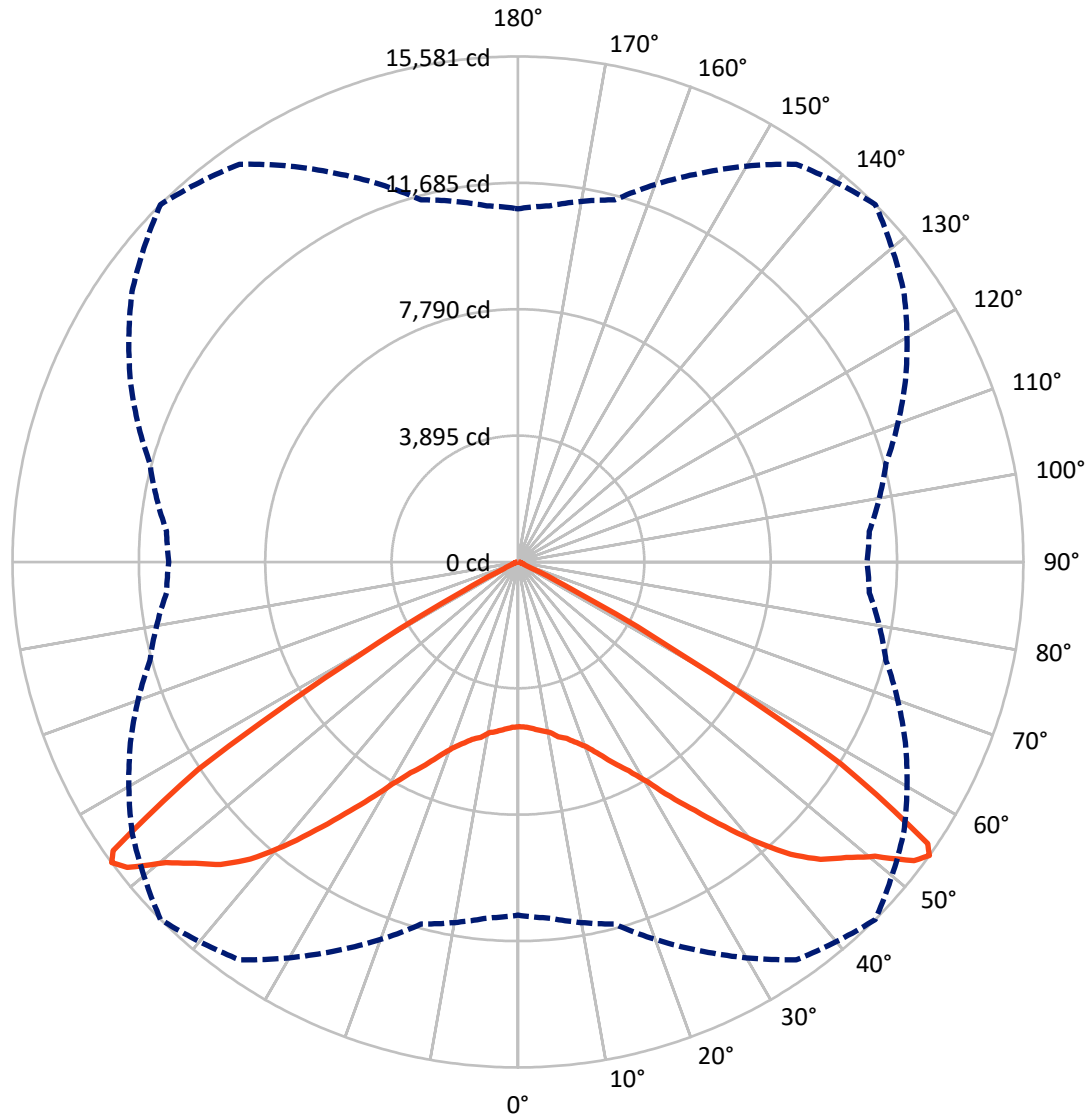
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15478.0	0.0	15478.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15478.0	0.0	15478.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30956.0	0.0	30956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.8	1.6
10°-20°	1608.8	5.2
20°-30°	3153.2	10.2
30°-40°	5670.2	18.3
40°-50°	9706.2	31.4
50°-60°	9391.7	30.3
60°-70°	804.0	2.6
70°-80°	95.3	0.3
80°-90°	29.9	0.1
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°	30956.0	100.0
0°-180°	30956.0	100.0

Coefficient of Utilization



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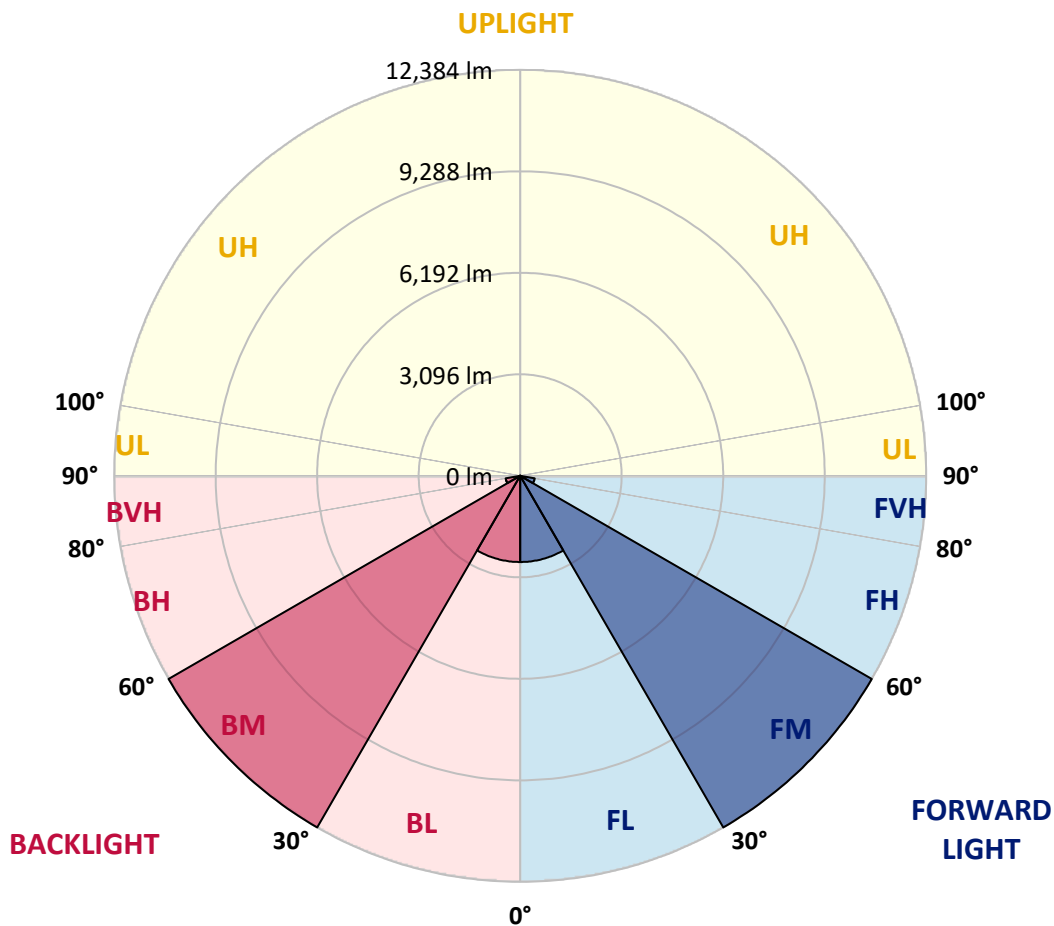
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2629.4	8.5			
FM (30°-60°)	12384.0	40.0			
FH (60°-80°)	449.6	1.5			G0/660
FVH (80°-90°)	14.9	0.0			G1/100
BL (0°-30°)	2629.4	8.5	B4/5000		
BM (30°-60°)	12384.0	40.0	B5		
BH (60°-80°)	449.6	1.5	B1/500		G0/660
BVH (80°-90°)	14.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5075.8	5075.8	5075.8	5075.8	5075.8	5075.8	5075.8	5075.8	5075.8	5075.8	5075.8
2.5°	5100.3	5129.8	5110.1	5124.9	5124.9	5100.3	5115.1	5056.2	5095.4	5066.0	5070.9
5°	5178.8	5173.9	5173.9	5178.8	5159.2	5169.0	5149.4	5129.8	5115.1	5095.4	5154.3
7.5°	5276.9	5276.9	5242.6	5252.4	5242.6	5257.3	5218.0	5178.8	5164.1	5149.4	5139.6
10°	5370.1	5360.3	5345.5	5389.7	5355.4	5335.7	5316.1	5291.6	5237.7	5218.0	5198.4
12.5°	5507.4	5502.5	5482.9	5527.0	5507.4	5527.0	5453.4	5389.7	5379.9	5316.1	5350.5
15°	5669.2	5713.4	5679.0	5679.0	5669.2	5644.7	5615.3	5585.9	5497.6	5473.1	5478.0
17.5°	5880.1	5865.4	5870.3	5870.3	5919.3	5855.6	5796.7	5723.2	5679.0	5664.3	5615.3
20°	6081.2	6100.8	6095.9	6130.2	6159.6	6091.0	6027.2	6017.4	5894.8	5914.4	5845.8
22.5°	6434.3	6419.6	6444.1	6468.6	6449.0	6439.2	6380.3	6306.8	6198.9	6149.8	6140.0
25°	6807.0	6782.5	6738.3	6797.2	6826.6	6870.7	6758.0	6718.7	6552.0	6478.4	6483.3
27.5°	7125.8	7160.1	7209.1	7233.7	7307.2	7292.5	7214.0	7086.5	6959.0	6875.7	6821.7
30°	7562.2	7581.9	7665.2	7699.6	7827.1	7861.4	7738.8	7591.7	7366.1	7258.2	7194.4
32.5°	7964.4	8101.7	8096.8	8268.4	8474.4	8616.6	8395.9	8170.4	7944.8	7817.3	7704.5
35°	8616.6	8592.1	8734.3	8915.8	9249.3	9411.1	9170.8	8910.9	8567.6	8361.6	8273.3
37.5°	9224.8	9234.6	9425.8	9715.2	10097.7	10347.8	10136.9	9710.3	9357.2	9092.3	8969.7
40°	10107.5	10127.1	10323.3	10651.9	11083.4	11353.2	11108.0	10676.4	10205.6	9999.6	9999.6
42.5°	11142.3	11225.7	11353.2	11637.6	12025.0	12324.2	12103.5	11765.1	11289.4	11024.6	11063.8
45°	12206.5	12245.7	12329.1	12750.9	12932.3	13079.4	12873.5	12716.5	12397.8	12074.1	12020.1
47.5°	13202.0	13216.7	13462.0	13594.4	13736.6	13614.0	13746.4	13540.4	13182.4	12868.6	12804.8
50°	13643.4	13618.9	13967.1	14369.2	14477.1	14261.3	14148.5	14011.2	13466.9	13089.2	12922.5
52.5°	12358.5	12500.7	13148.1	14266.2	15109.8	15291.2	14634.1	14001.4	12986.3	12250.6	12137.8
54°	10887.3	11019.7	11554.2	13211.8	14967.5	15580.6	14521.3	13177.5	11745.5	10872.6	10759.8
55°	9430.7	9283.6	10254.6	11946.6	14300.6	15325.5	14075.0	12113.3	10475.3	9675.9	9519.0
57.5°	5105.2	5129.8	5948.8	7547.5	10048.7	11750.4	10377.2	8194.9	6189.1	5291.6	5213.1
60°	1618.4	1657.6	2015.6	3050.4	4801.2	5733.0	4914.0	3290.7	2275.5	1824.4	1750.8
62.5°	505.1	524.7	573.8	853.3	1314.3	1878.3	1471.3	882.8	657.2	603.2	613.0
65°	309.0	309.0	313.9	333.5	392.3	456.1	441.4	387.4	372.7	362.9	358.0
67.5°	201.1	196.2	206.0	220.7	230.5	235.4	250.1	264.8	259.9	250.1	250.1
70°	122.6	117.7	127.5	147.1	152.0	161.8	176.6	196.2	191.3	181.5	186.4
72.5°	68.7	68.7	73.6	88.3	103.0	112.8	127.5	142.2	147.1	142.2	142.2
75°	24.5	29.4	39.2	53.9	63.8	78.5	93.2	107.9	122.6	112.8	107.9
77.5°	9.8	9.8	19.6	34.3	49.0	63.8	88.3	103.0	112.8	103.0	93.2
80°	4.9	4.9	14.7	29.4	44.1	58.9	73.6	88.3	93.2	83.4	73.6
82.5°	4.9	4.9	14.7	29.4	44.1	53.9	78.5	88.3	98.1	88.3	73.6
85°	0.0	4.9	14.7	29.4	39.2	44.1	44.1	29.4	24.5	14.7	14.7
87.5°	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)