

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: P532355

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27044 lumens
Efficiency: N/A
Efficacy: 62.5 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

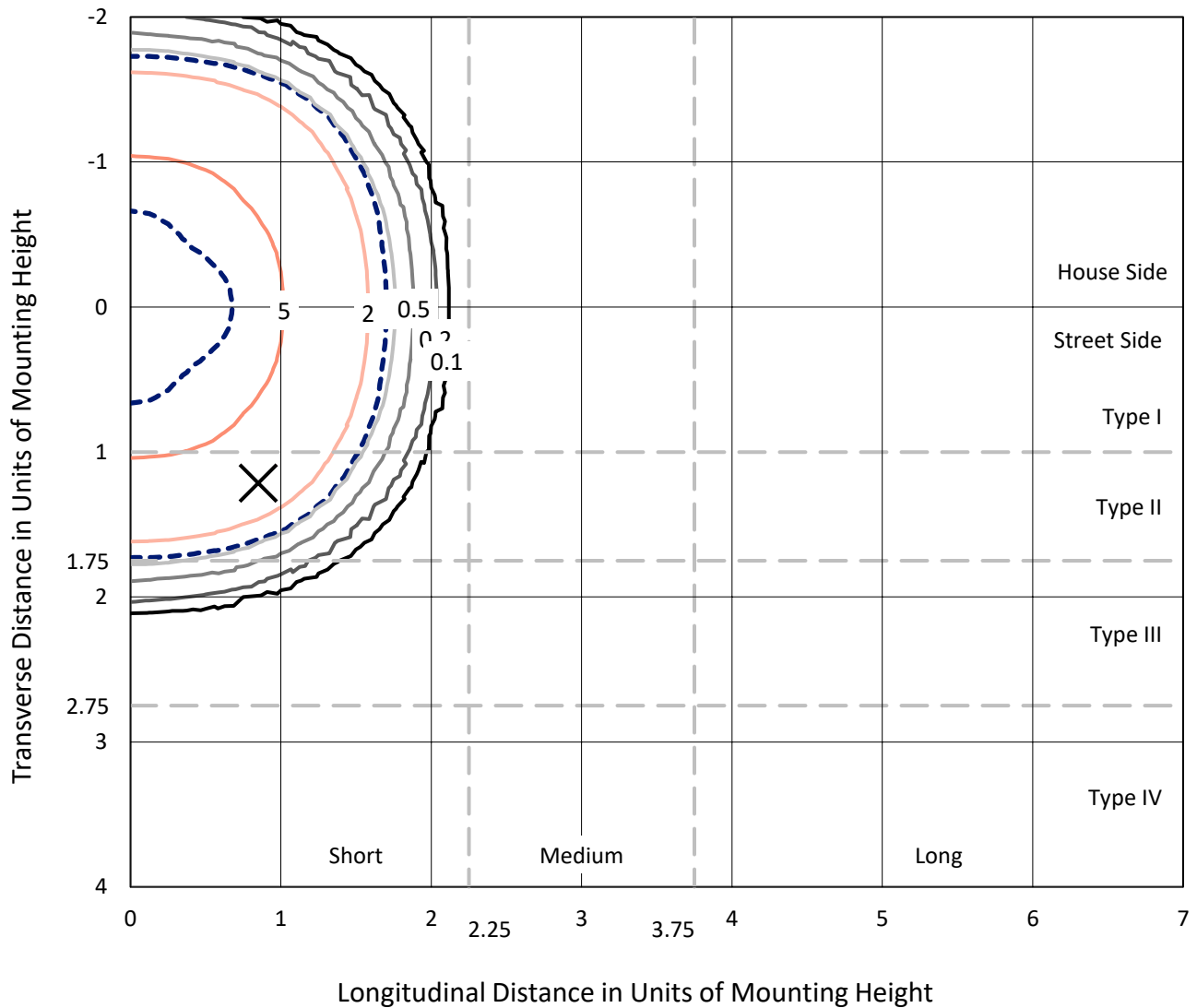
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

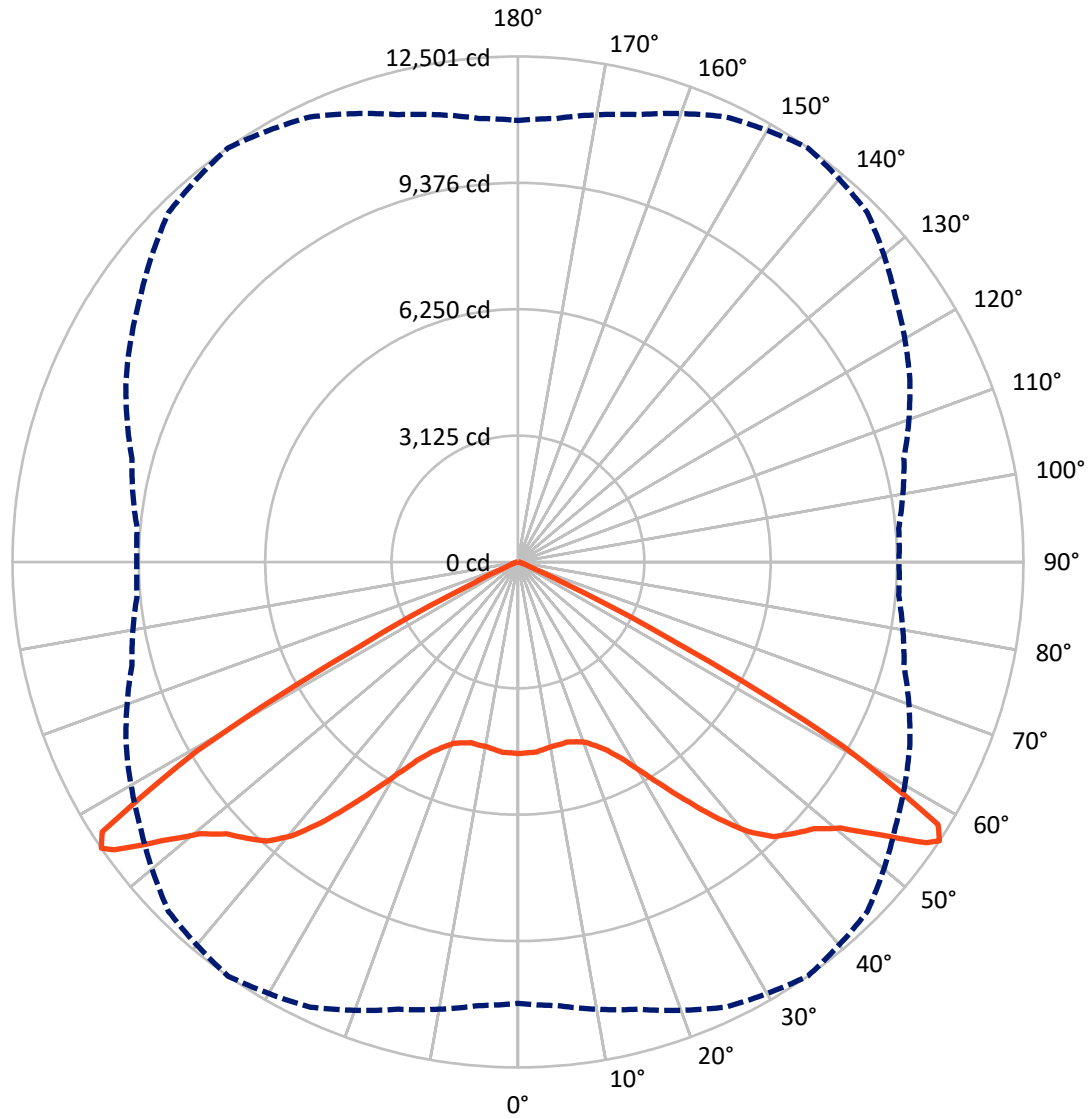
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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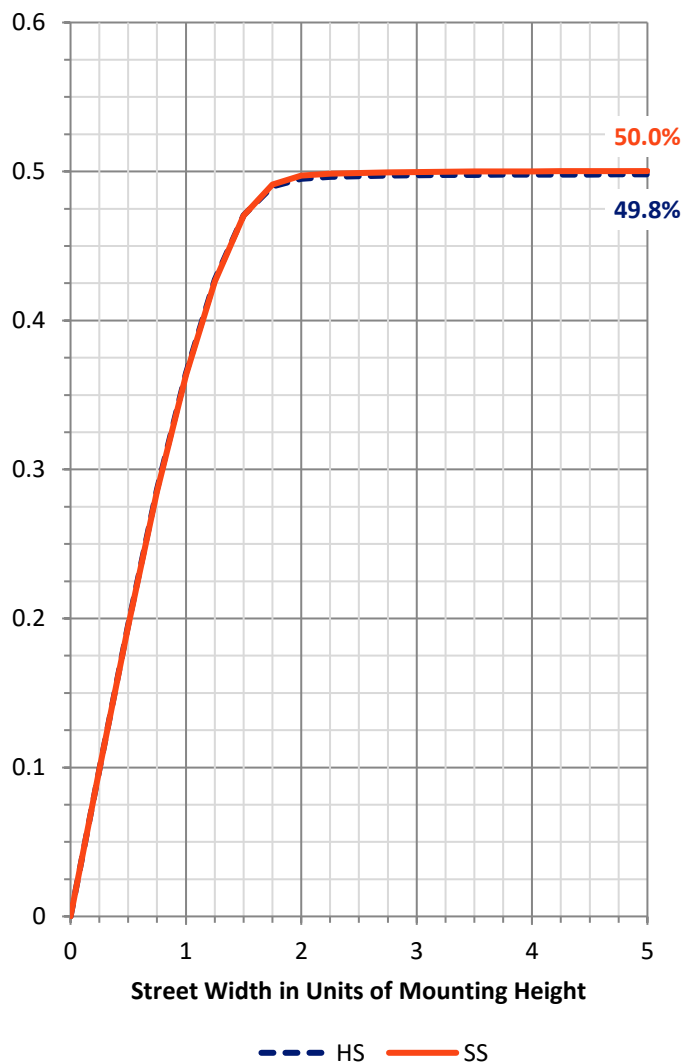
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13522.0	0.0	13522.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13522.0	0.0	13522.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27044.0	0.0	27044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	1.6
10°-20°	1300.3	4.8
20°-30°	2354.6	8.7
30°-40°	4366.2	16.1
40°-50°	7166.8	26.5
50°-60°	9233.0	34.1
60°-70°	2034.8	7.5
70°-80°	118.1	0.4
80°-90°	24.8	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°	27044.0	100.0
0°-180°	27044.0	100.0

Coefficient of Utilization

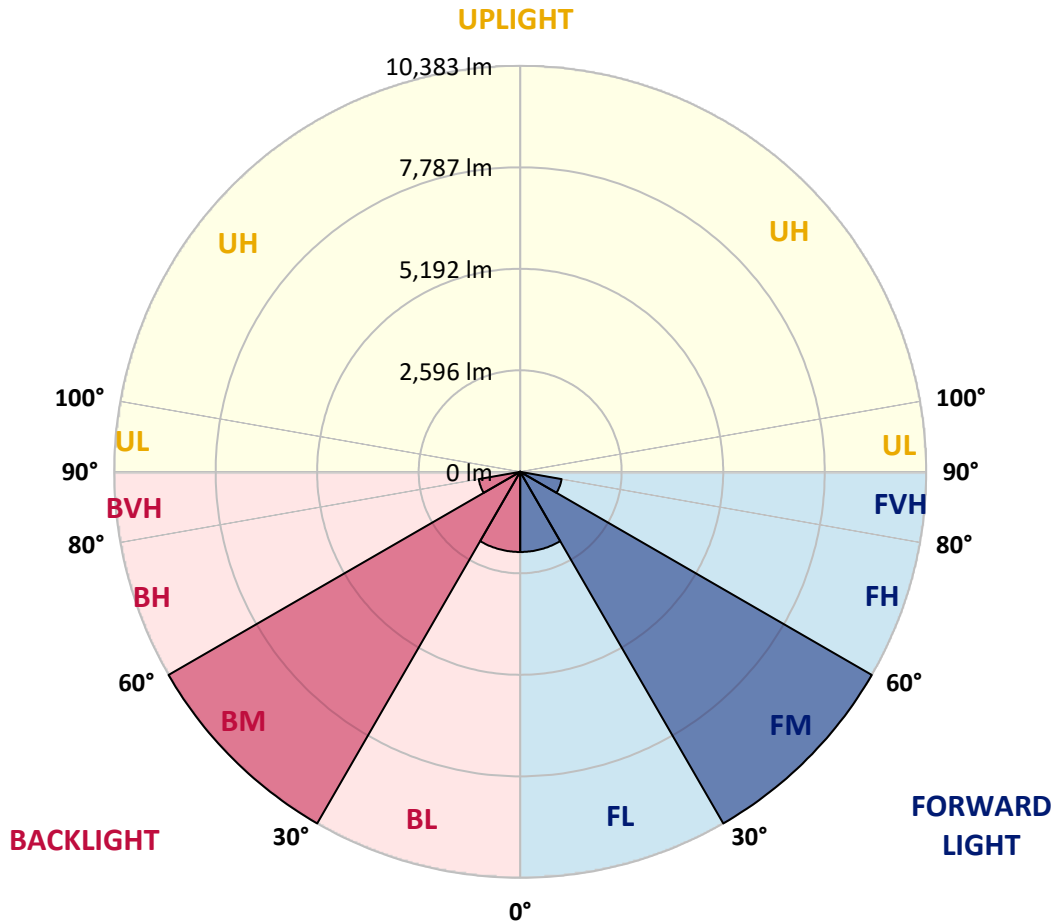


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2050.1	7.6			
FM (30°-60°)	10383.0	38.4			
FH (60°-80°)	1076.4	4.0			G1/1800
FVH (80°-90°)	12.4	0.0			G1/100
BL (0°-30°)	2050.1	7.6	B3/2500		
BM (30°-60°)	10383.0	38.4	B5		
BH (60°-80°)	1076.4	4.0	B3/2500		G1/1800
BVH (80°-90°)	12.4	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°	4738.7	4738.7	4738.7	4738.7	4738.7	4738.7	4738.7	4738.7	4738.7	4738.7	4738.7
2.5°	4748.5	4748.5	4753.4	4758.3	4724.0	4709.3	4714.2	4704.4	4699.5	4714.2	4714.2
5°	4733.8	4733.8	4719.1	4724.0	4724.0	4679.9	4679.9	4689.7	4689.7	4660.3	4650.5
7.5°	4694.6	4684.8	4665.2	4689.7	4675.0	4675.0	4640.7	4616.2	4606.4	4626.0	4606.4
10°	4611.3	4616.2	4635.8	4645.6	4635.8	4665.2	4606.4	4572.1	4537.8	4523.1	4523.1
12.5°	4572.1	4601.5	4572.1	4596.6	4630.9	4606.4	4572.1	4547.6	4498.6	4479.0	4479.0
15°	4567.2	4586.8	4596.6	4630.9	4616.2	4626.0	4557.4	4528.0	4454.5	4420.2	4405.5
17.5°	4562.3	4586.8	4601.5	4665.2	4675.0	4679.9	4626.0	4537.8	4474.1	4439.8	4405.5
20°	4616.2	4626.0	4655.4	4719.1	4758.3	4826.9	4728.9	4635.8	4498.6	4459.4	4444.7
22.5°	4684.8	4733.8	4763.2	4831.8	4934.7	4993.5	4866.1	4748.5	4606.4	4557.4	4498.6
25°	4905.3	4895.5	4944.5	5086.6	5169.9	5214.0	5111.1	4939.6	4753.4	4694.6	4704.4
27.5°	5179.7	5189.5	5233.6	5390.4	5513.0	5581.6	5459.0	5233.6	5052.3	4954.3	4944.5
30°	5537.5	5527.7	5576.7	5787.4	6007.9	6110.8	5895.2	5630.6	5454.1	5326.7	5356.1
32.5°	5914.8	5919.7	6056.9	6248.0	6605.7	6806.7	6458.7	6135.3	5870.7	5782.5	5738.4
35°	6473.4	6497.9	6605.7	6899.8	7296.7	7556.4	7174.2	6787.1	6483.2	6321.5	6341.1
37.5°	7164.4	7139.9	7321.2	7639.7	8056.3	8247.4	7924.0	7482.9	7174.2	7066.4	7135.0
40°	7899.5	7924.0	8017.1	8306.2	8771.7	8899.1	8418.9	8178.8	7909.3	7855.3	7938.7
42.5°	8634.5	8619.8	8688.4	8948.1	9286.3	9198.1	8913.8	8771.7	8580.6	8472.8	8585.5
45°	9173.6	9149.1	9276.5	9452.9	9575.4	9408.8	9281.4	9232.4	9134.4	9016.7	9119.7
47.5°	9697.9	9678.3	9800.8	9849.8	9859.6	9639.1	9663.6	9751.8	9506.8	9261.8	9379.4
50°	10143.8	10109.5	10261.4	10369.3	10344.8	9991.9	10080.1	9991.9	9609.7	9320.6	9276.5
52.5°	10888.7	10903.4	11065.1	11261.1	11202.3	10908.3	10780.9	10379.1	9889.0	9629.3	9477.4
55°	11359.1	11285.6	11565.0	12187.3	12255.9	11952.1	11388.5	10795.6	10060.5	9742.0	9702.8
56°	10918.1	11011.2	11452.2	12148.1	12500.9	12221.6	11403.2	10692.7	9884.1	9452.9	9423.5
57.5°	9795.9	9746.9	10344.8	11295.4	12255.9	12138.3	11001.4	9957.6	9016.7	8531.6	8472.8
60°	6096.1	6238.2	6762.6	7938.7	9222.6	9281.4	8154.3	7257.5	6159.8	5728.6	5831.5
62.5°	2386.5	2264.0	2592.3	3469.5	4351.6	4547.6	4121.2	3425.4	2812.8	2386.5	2357.1
65°	553.7	539.0	607.7	838.0	1171.2	1357.4	1288.8	926.2	681.2	646.9	597.8
67.5°	313.6	313.6	298.9	298.9	328.3	347.9	333.2	328.3	343.0	357.7	352.8
70°	220.5	215.6	205.8	210.7	200.9	200.9	215.6	240.1	259.7	259.7	264.6
72.5°	132.3	132.3	132.3	147.0	147.0	147.0	161.7	181.3	186.2	181.3	176.4
75°	58.8	58.8	68.6	83.3	93.1	98.0	112.7	122.5	132.3	122.5	112.7
77.5°	14.7	14.7	24.5	34.3	44.1	53.9	73.5	88.2	93.1	88.2	73.5
80°	4.9	4.9	9.8	24.5	44.1	53.9	73.5	78.4	83.3	73.5	58.8
82.5°	4.9	4.9	9.8	24.5	34.3	44.1	58.8	68.6	73.5	63.7	58.8
85°	0.0	4.9	9.8	19.6	29.4	39.2	39.2	29.4	24.5	14.7	19.6
87.5°	0.0	0.0	4.9	4.9	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)