

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: P532519

Luminaire Tested: **GALN-SA7D-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25598 lumens
Efficiency: N/A
Efficacy: 59.1 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

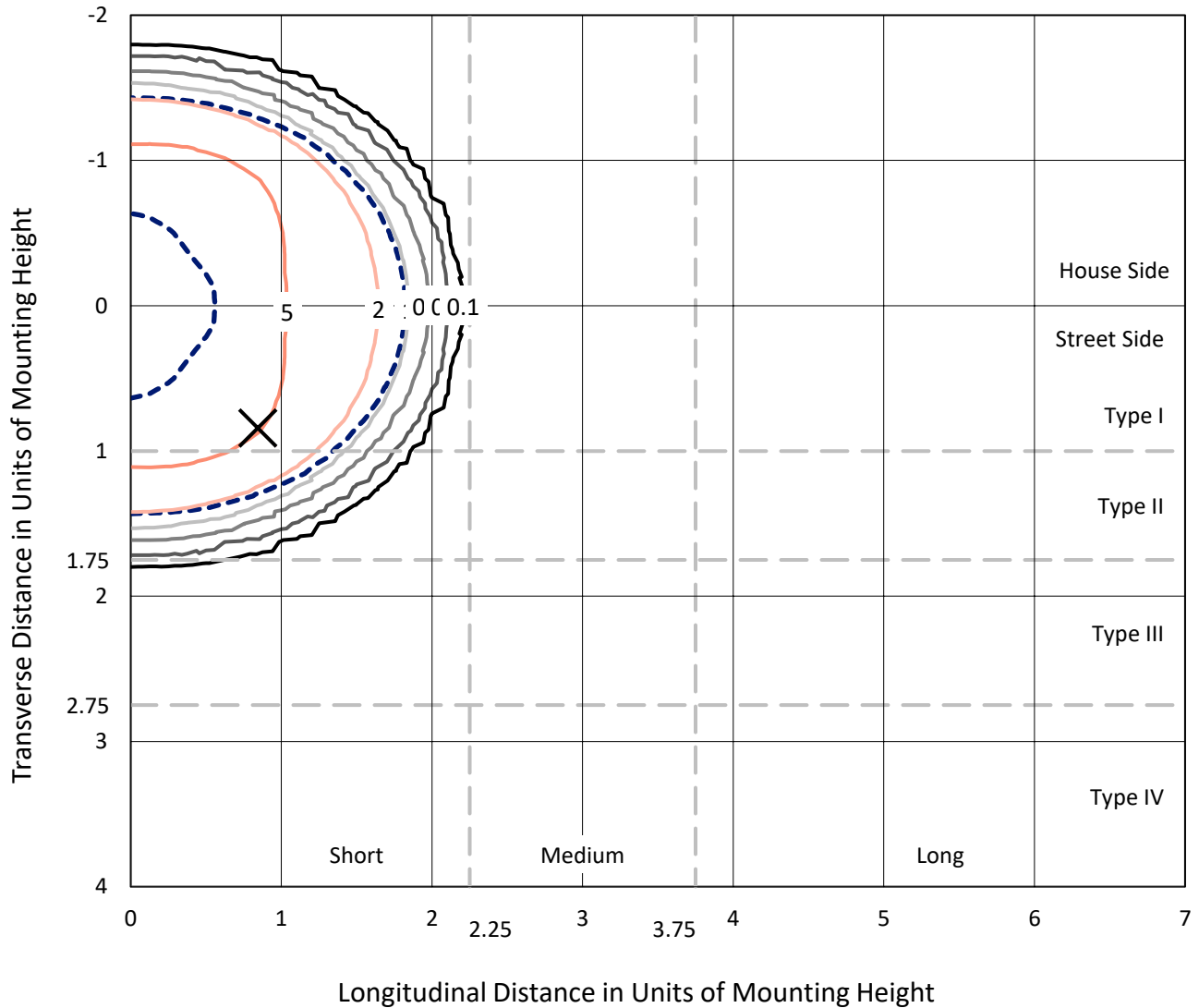
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

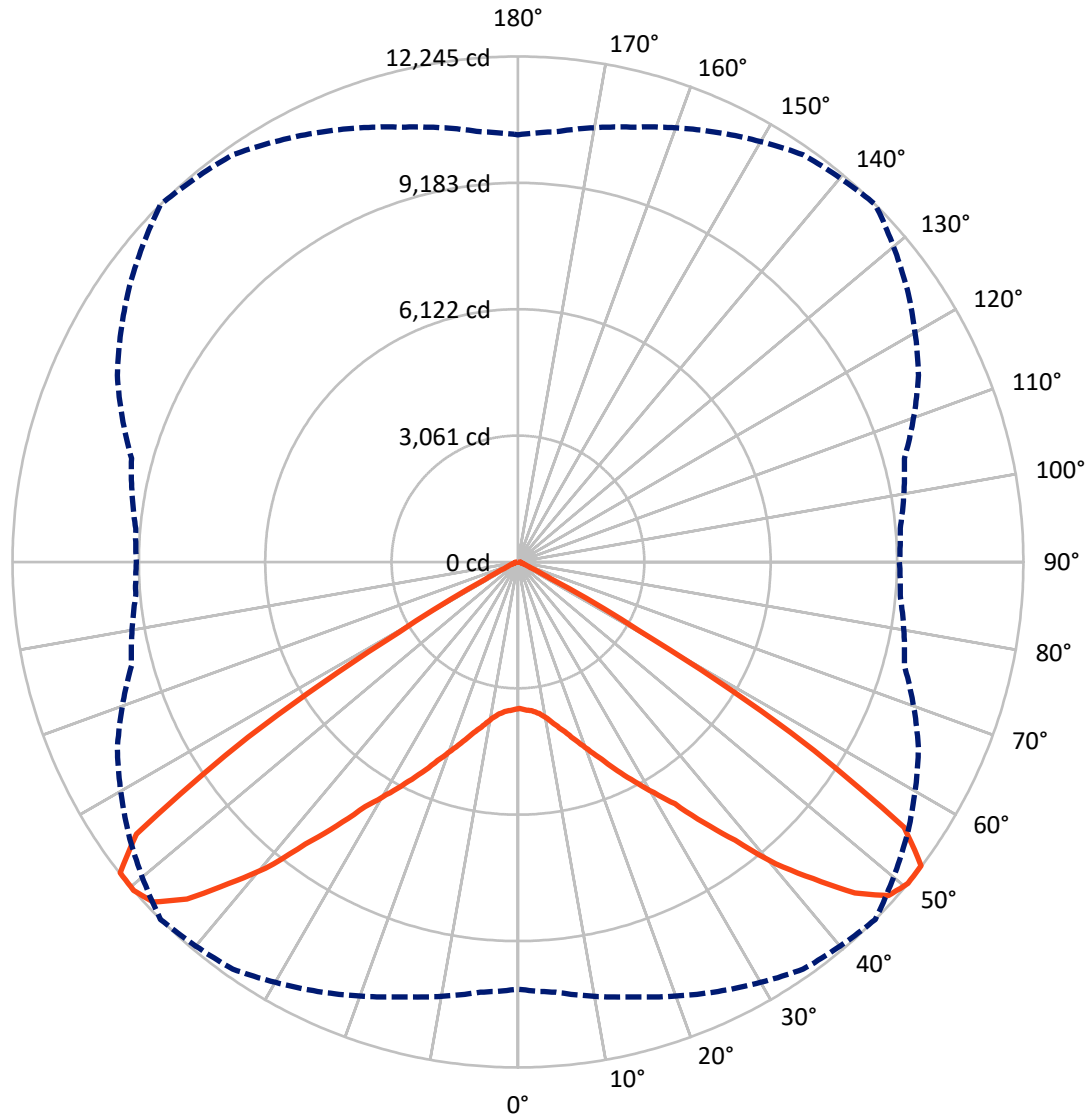
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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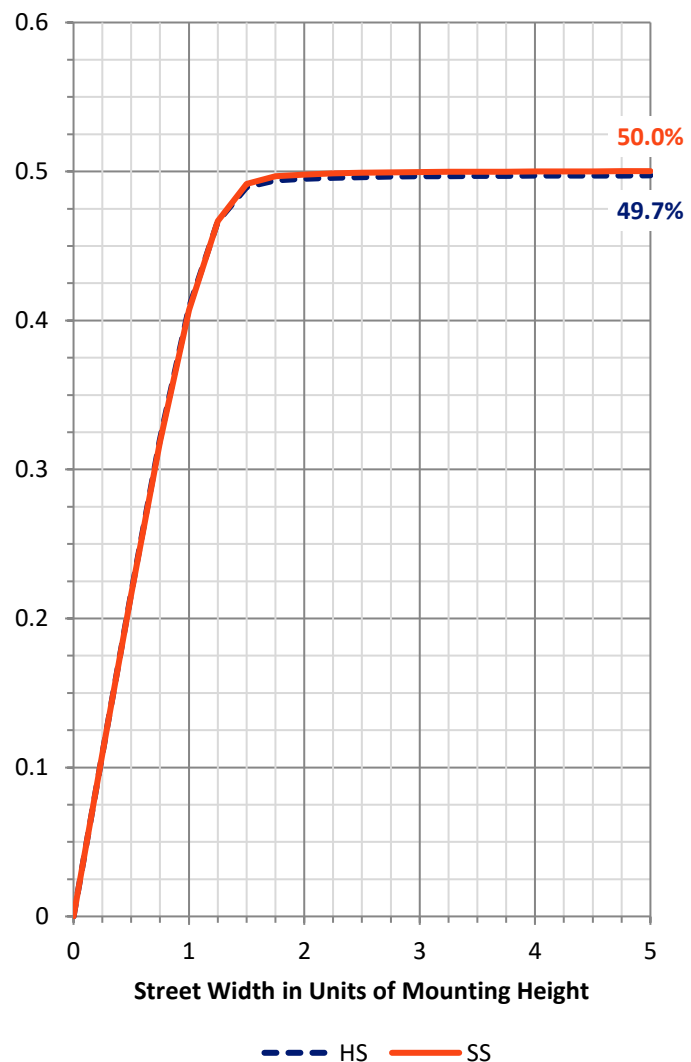
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12799.0	0.0	12799.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12799.0	0.0	12799.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25598.0	0.0	25598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.1	1.4
10°-20°	1216.8	4.8
20°-30°	2485.3	9.7
30°-40°	4739.4	18.5
40°-50°	7986.6	31.2
50°-60°	7616.7	29.8
60°-70°	1063.3	4.2
70°-80°	101.7	0.4
80°-90°	35.1	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°	25598.0	100.0
0°-180°	25598.0	100.0

Coefficient of Utilization



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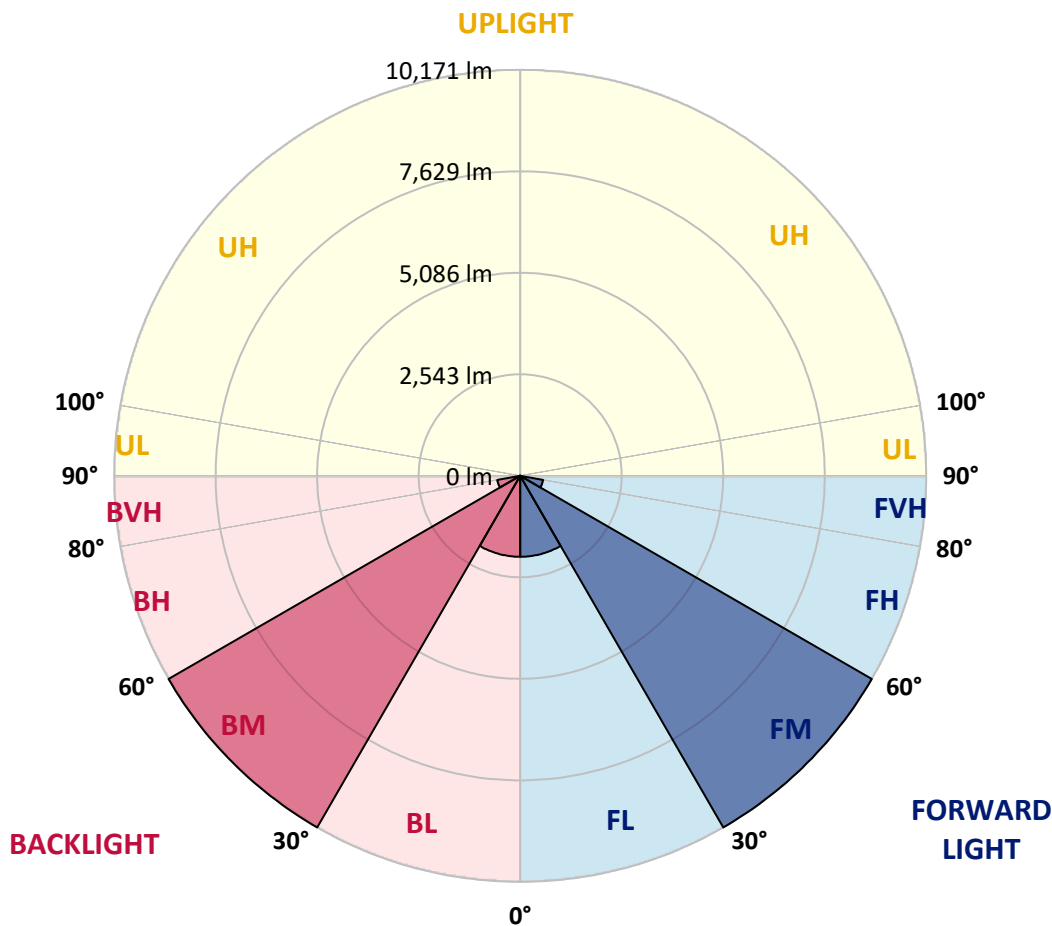
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.6	7.9			
FM (30°-60°)	10171.4	39.7			
FH (60°-80°)	582.5	2.3			G0/660
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	2027.6	7.9	B3/2500		
BM (30°-60°)	10171.4	39.7	B5		
BH (60°-80°)	582.5	2.3	B2/1000		G0/660
BVH (80°-90°)	17.6	0.1			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°	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9
2.5°	3536.0	3536.0	3531.7	3566.1	3548.9	3587.6	3583.3	3596.3	3609.2	3604.9	3639.3
5°	3505.8	3501.5	3501.5	3540.3	3579.0	3622.1	3660.9	3686.7	3729.8	3729.8	3772.8
7.5°	3536.0	3514.4	3544.6	3561.8	3635.0	3708.2	3772.8	3824.5	3923.6	3958.0	3945.1
10°	3544.6	3570.4	3592.0	3643.6	3734.1	3846.1	3902.0	4031.3	4143.2	4220.8	4238.0
12.5°	3600.6	3639.3	3699.6	3824.5	3906.4	4052.8	4130.3	4255.2	4410.3	4496.4	4556.7
15°	3708.2	3721.2	3798.7	3958.0	4134.6	4268.1	4388.7	4479.2	4629.9	4729.0	4733.3
17.5°	3846.1	3902.0	4009.7	4160.5	4345.7	4543.8	4638.5	4737.6	4793.6	4927.1	4957.2
20°	4121.7	4130.3	4233.7	4431.8	4664.4	4845.3	4914.2	4965.8	4944.3	5082.1	5108.0
22.5°	4380.1	4388.7	4517.9	4785.0	5034.8	5189.8	5220.0	5189.8	5125.2	5224.3	5232.9
25°	4642.8	4720.4	4815.1	5082.1	5392.2	5599.0	5603.3	5521.4	5387.9	5405.2	5448.2
27.5°	5052.0	5108.0	5207.0	5452.5	5792.8	6025.3	5986.6	5887.5	5715.2	5728.2	5715.2
30°	5530.1	5581.7	5663.6	5978.0	6227.8	6481.9	6537.9	6443.1	6184.7	6128.7	6193.3
32.5°	6107.2	6180.4	6331.1	6619.7	6830.7	6985.8	7024.5	6990.1	6748.9	6727.4	6770.4
35°	6809.2	6908.3	7046.1	7300.2	7472.5	7752.4	7752.4	7636.1	7416.5	7442.3	7438.0
37.5°	7550.0	7696.4	7911.8	8170.2	8402.8	8553.5	8506.1	8407.1	8187.4	8131.4	8187.4
40°	8480.3	8553.5	8824.8	9160.8	9445.0	9617.3	9414.9	9199.5	8674.1	8755.9	8906.7
42.5°	9328.7	9445.0	9651.8	10022.1	10345.2	10487.3	10246.1	9819.7	9186.6	9122.0	9234.0
45°	10052.3	10177.2	10448.5	10978.3	11318.5	11443.4	10909.4	10220.3	9496.7	9333.0	9380.4
47.5°	10534.7	10599.3	10978.3	11482.2	11792.3	12076.5	11309.9	10495.9	9643.1	9333.0	9315.8
50°	10349.5	10461.4	10905.1	11477.9	12042.1	12244.5	11512.3	10706.9	9690.5	9294.3	9242.6
52.5°	9190.9	9384.7	9880.0	10651.0	11503.7	12227.3	11792.3	10638.0	9673.3	9333.0	9410.6
55°	6395.7	6400.0	7003.0	8140.0	9647.4	11353.0	11383.1	10715.6	9785.3	9574.2	9578.5
57.5°	2571.2	2700.4	3161.3	4302.6	5693.7	7795.5	9268.4	9940.3	9798.2	9746.5	9880.0
60°	650.3	654.6	796.8	1214.5	2002.7	3342.2	4853.9	6568.0	7562.9	7903.2	7950.5
62.5°	331.6	335.9	370.4	430.7	547.0	895.8	1593.6	2528.1	3596.3	4138.9	4281.1
65°	271.3	271.3	292.9	323.0	327.3	344.6	413.5	590.0	857.1	973.4	986.3
67.5°	206.7	206.7	224.0	241.2	249.8	245.5	236.9	245.5	297.2	284.3	275.6
70°	129.2	133.5	142.1	159.4	168.0	172.3	176.6	185.2	211.0	219.7	211.0
72.5°	77.5	77.5	81.8	94.8	107.7	116.3	129.2	137.8	150.7	172.3	168.0
75°	34.5	34.5	43.1	56.0	68.9	81.8	94.8	107.7	116.3	129.2	133.5
77.5°	8.6	12.9	21.5	38.8	51.7	68.9	86.1	99.1	107.7	107.7	103.4
80°	4.3	4.3	17.2	30.1	56.0	73.2	94.8	103.4	116.3	107.7	94.8
82.5°	4.3	4.3	17.2	30.1	51.7	73.2	99.1	112.0	120.6	107.7	90.4
85°	0.0	4.3	12.9	25.8	43.1	51.7	43.1	30.1	17.2	17.2	12.9
87.5°	0.0	0.0	4.3	4.3	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)