

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: P457384

Luminaire Tested: **GALN-SA8D-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54677 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

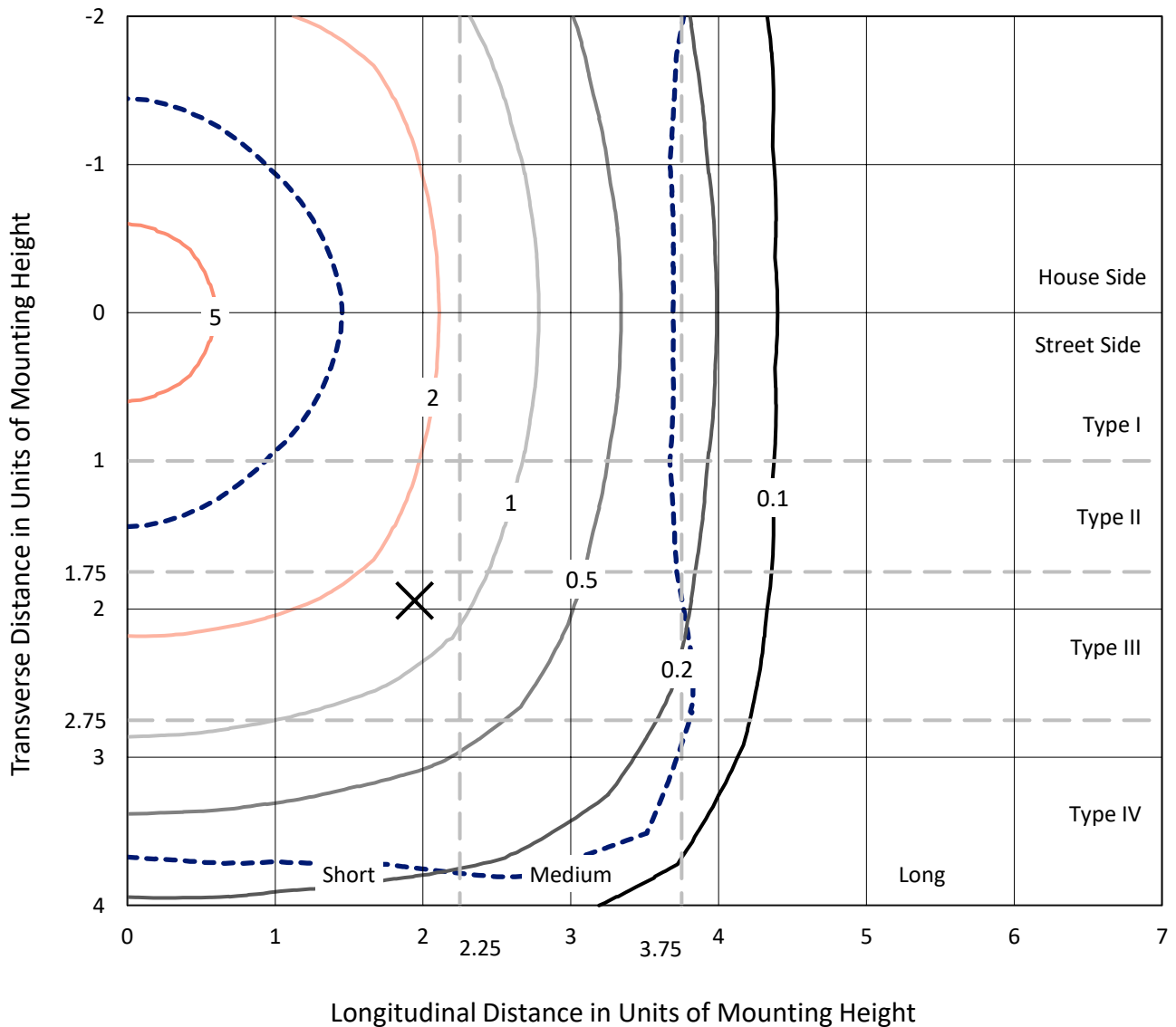
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

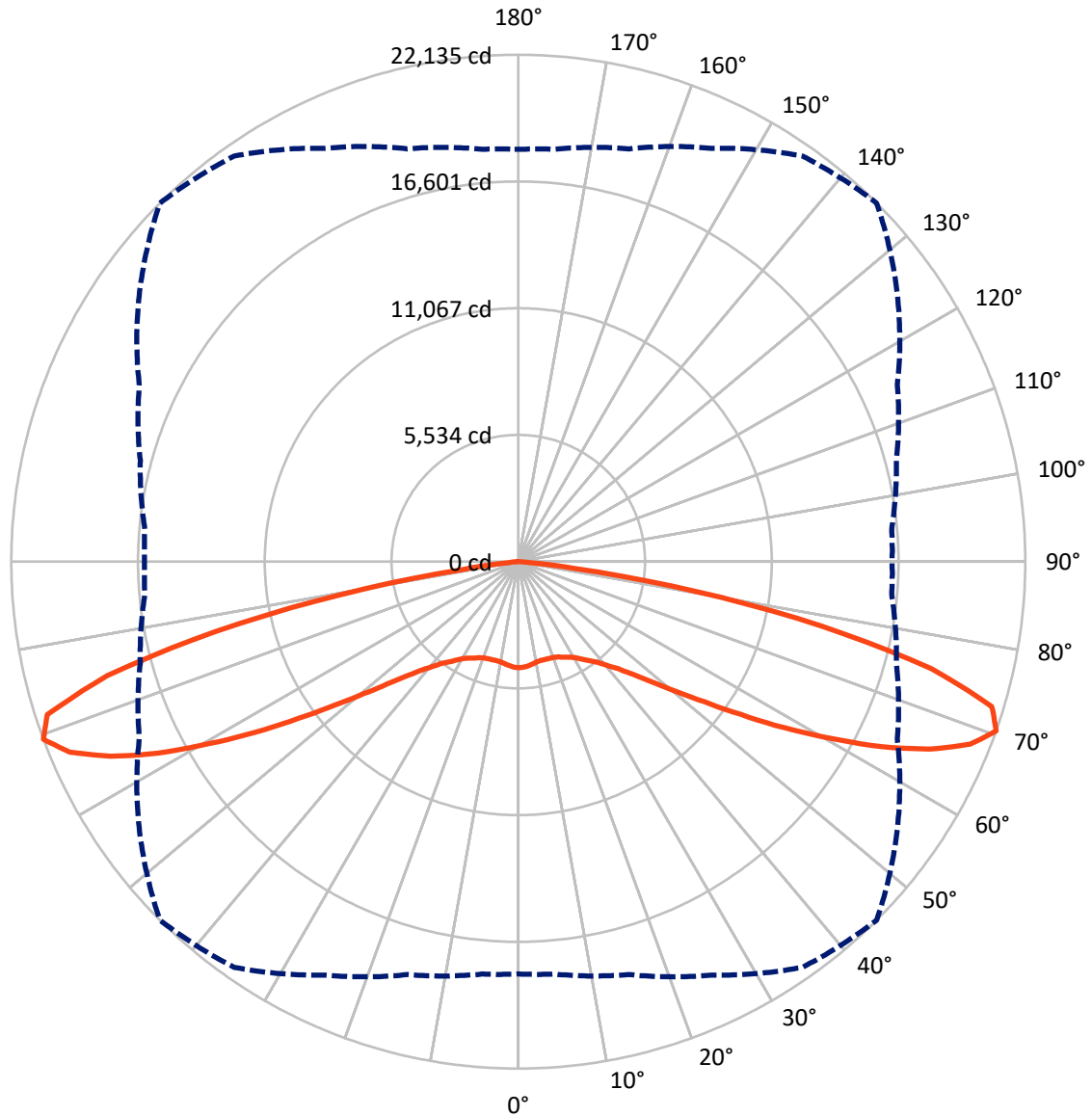
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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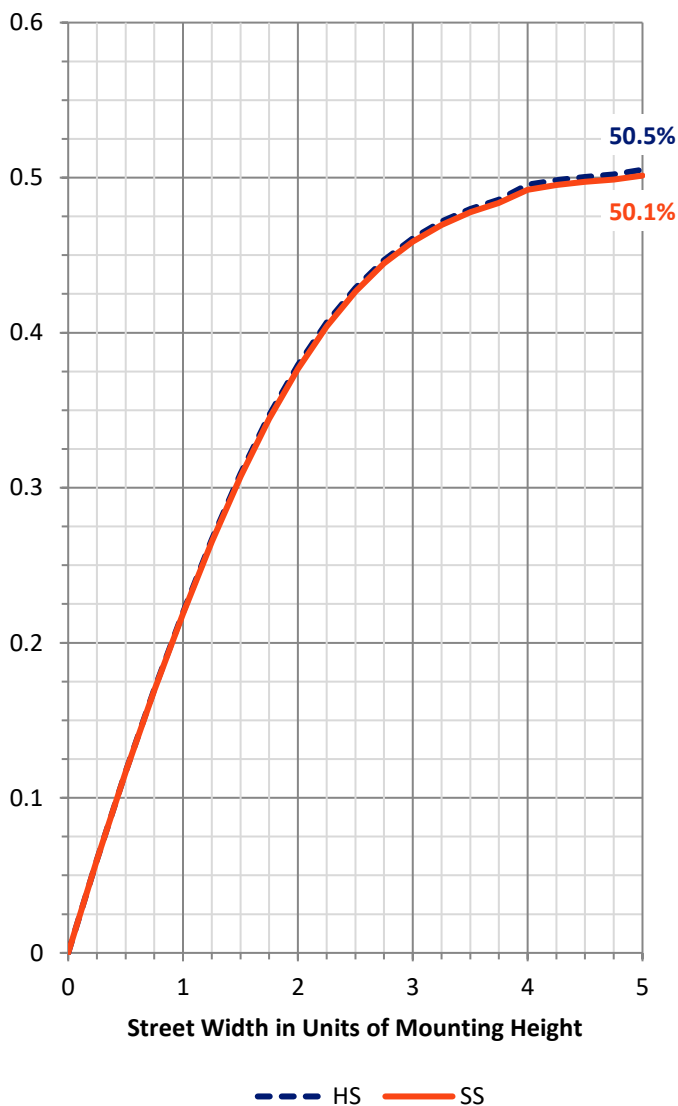
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27338.5	0.0	27338.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27338.5	0.0	27338.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54677.0	0.0	54677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.9	0.8
10°-20°	1267.4	2.3
20°-30°	2159.3	3.9
30°-40°	3346.9	6.1
40°-50°	5633.2	10.3
50°-60°	10249.4	18.7
60°-70°	17352.0	31.7
70°-80°	13431.1	24.6
80°-90°	804.8	1.5
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°	54677.0	100.0
0°-180°	54677.0	100.0

Coefficient of Utilization



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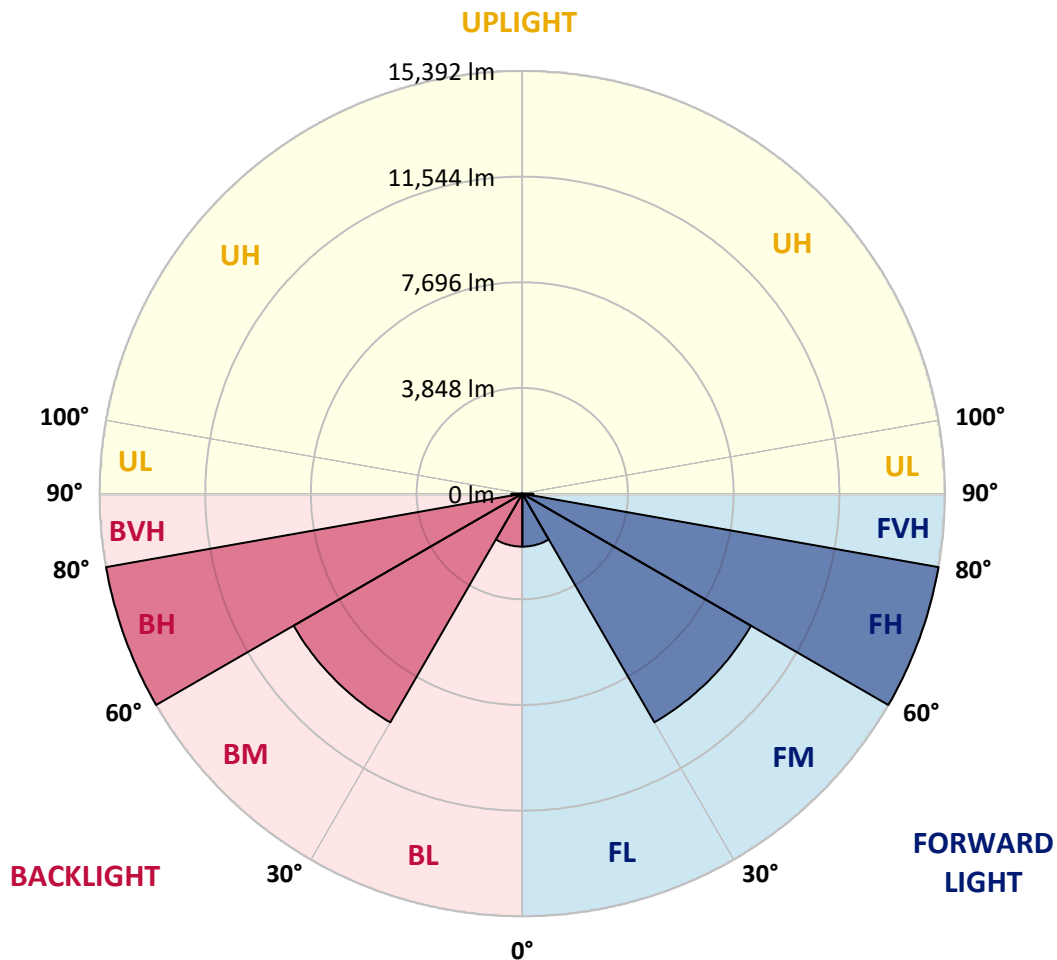
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.8	3.5			
FM (30°-60°)	9614.8	17.6			
FH (60°-80°)	15391.6	28.1			G5
FVH (80°-90°)	402.4	0.7			G3/500
BL (0°-30°)	1929.8	3.5	B3/2500		
BM (30°-60°)	9614.8	17.6	B5		
BH (60°-80°)	15391.6	28.1	B5		G5
BVH (80°-90°)	402.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1
2.5°	4617.5	4620.4	4620.4	4614.6	4611.8	4611.8	4608.9	4608.9	4617.5	4620.4	4623.3
5°	4577.1	4577.1	4577.1	4574.2	4568.4	4568.4	4562.7	4562.7	4565.5	4574.2	4568.4
7.5°	4522.2	4528.0	4528.0	4516.5	4507.8	4507.8	4504.9	4507.8	4510.7	4519.3	4516.5
10°	4504.9	4507.8	4493.4	4473.1	4458.7	4450.0	4452.9	4458.7	4473.1	4478.9	4481.8
12.5°	4516.5	4516.5	4490.5	4461.6	4435.6	4424.0	4421.2	4441.4	4467.4	4484.7	4490.5
15°	4530.9	4525.1	4493.4	4455.8	4429.8	4426.9	4424.0	4438.5	4476.0	4510.7	4513.6
17.5°	4539.6	4536.7	4496.2	4450.0	4435.6	4435.6	4432.7	4444.3	4484.7	4528.0	4530.9
20°	4568.4	4559.8	4513.6	4464.5	4452.9	4458.7	4450.0	4464.5	4507.8	4559.8	4571.3
22.5°	4626.2	4617.5	4571.3	4522.2	4516.5	4516.5	4513.6	4528.0	4574.2	4629.1	4637.7
25°	4695.5	4686.8	4643.5	4608.9	4614.6	4626.2	4620.4	4623.3	4660.8	4707.0	4721.5
27.5°	4787.9	4773.5	4735.9	4707.0	4724.4	4724.4	4724.4	4721.5	4744.6	4787.9	4802.3
30°	4900.5	4894.8	4854.3	4851.4	4865.9	4851.4	4851.4	4854.3	4857.2	4897.6	4912.1
32.5°	5047.8	5036.3	5016.0	5010.3	5050.7	5062.2	5021.8	4984.3	5004.5	5044.9	5053.6
35°	5290.4	5273.0	5244.2	5212.4	5244.2	5299.0	5212.4	5183.5	5235.5	5290.4	5296.1
37.5°	5619.6	5610.9	5564.7	5507.0	5504.1	5561.8	5472.3	5469.4	5567.6	5634.0	5642.7
40°	6032.5	6041.2	5983.4	5928.6	5899.7	5945.9	5876.6	5902.6	5997.9	6073.0	6067.2
42.5°	6613.0	6581.2	6491.7	6439.7	6407.9	6390.6	6373.3	6413.7	6520.6	6601.4	6664.9
45°	7291.6	7280.0	7167.4	7103.9	7034.6	7008.6	7002.8	7075.0	7205.0	7303.1	7311.8
47.5°	8059.7	8033.7	7961.6	7895.1	7869.1	7837.4	7808.5	7863.4	7993.3	8062.6	8082.8
50°	8851.0	8856.8	8856.8	8845.2	8871.2	8877.0	8799.0	8819.2	8891.4	8885.6	8879.9
52.5°	9754.8	9786.6	9936.8	9951.2	10075.4	10159.1	10017.6	9933.9	9907.9	9752.0	9763.5
55°	10817.5	10846.4	11071.7	11296.9	11631.9	11773.4	11476.0	11216.1	11031.2	10794.4	10806.0
57.5°	12143.0	12157.5	12371.2	12804.3	13335.7	13667.8	13145.1	12631.1	12255.6	12030.4	11940.9
60°	13569.6	13584.0	13895.9	14424.4	15250.3	15654.5	15007.7	14167.3	13693.8	13350.1	13373.2
62.5°	15282.0	15339.8	15619.9	16347.6	17349.7	17803.0	16945.4	15822.0	15180.9	14753.6	14770.9
65°	17115.7	17213.9	17520.0	18319.9	19244.0	19732.1	18680.9	17384.3	16587.3	16064.6	16119.5
67.5°	18305.5	18392.1	18834.0	19717.6	20869.8	21274.1	19916.9	18406.6	17410.3	16786.5	16671.0
70°	18002.3	18074.5	18663.6	19916.9	21623.5	22134.7	20211.4	18256.4	17084.0	16364.9	16318.7
72.5°	15891.3	15741.2	16601.7	18400.8	20763.0	21620.7	19284.5	16673.9	15198.3	14459.0	14372.4
75°	10531.7	10858.0	12128.6	14248.2	17566.2	18628.9	16460.2	13387.7	11530.8	10915.7	10820.4
77.5°	3520.2	3771.4	4900.5	8077.1	11975.5	13572.5	11992.9	8755.7	6194.2	4990.0	5013.1
80°	932.7	921.2	1192.6	2220.7	5174.9	7860.5	6023.9	2965.7	1622.9	1175.3	1114.7
82.5°	335.0	375.4	482.3	615.1	1371.7	2443.0	1724.0	831.7	609.3	450.5	436.1
85°	147.3	144.4	207.9	245.5	343.6	456.3	404.3	352.3	309.0	205.0	190.6
87.5°	31.8	31.8	49.1	37.5	60.6	60.6	75.1	89.5	92.4	60.6	49.1
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)