

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: P454744

Luminaire Tested: **GALN-SA5D-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454744
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-SA5D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 29721 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

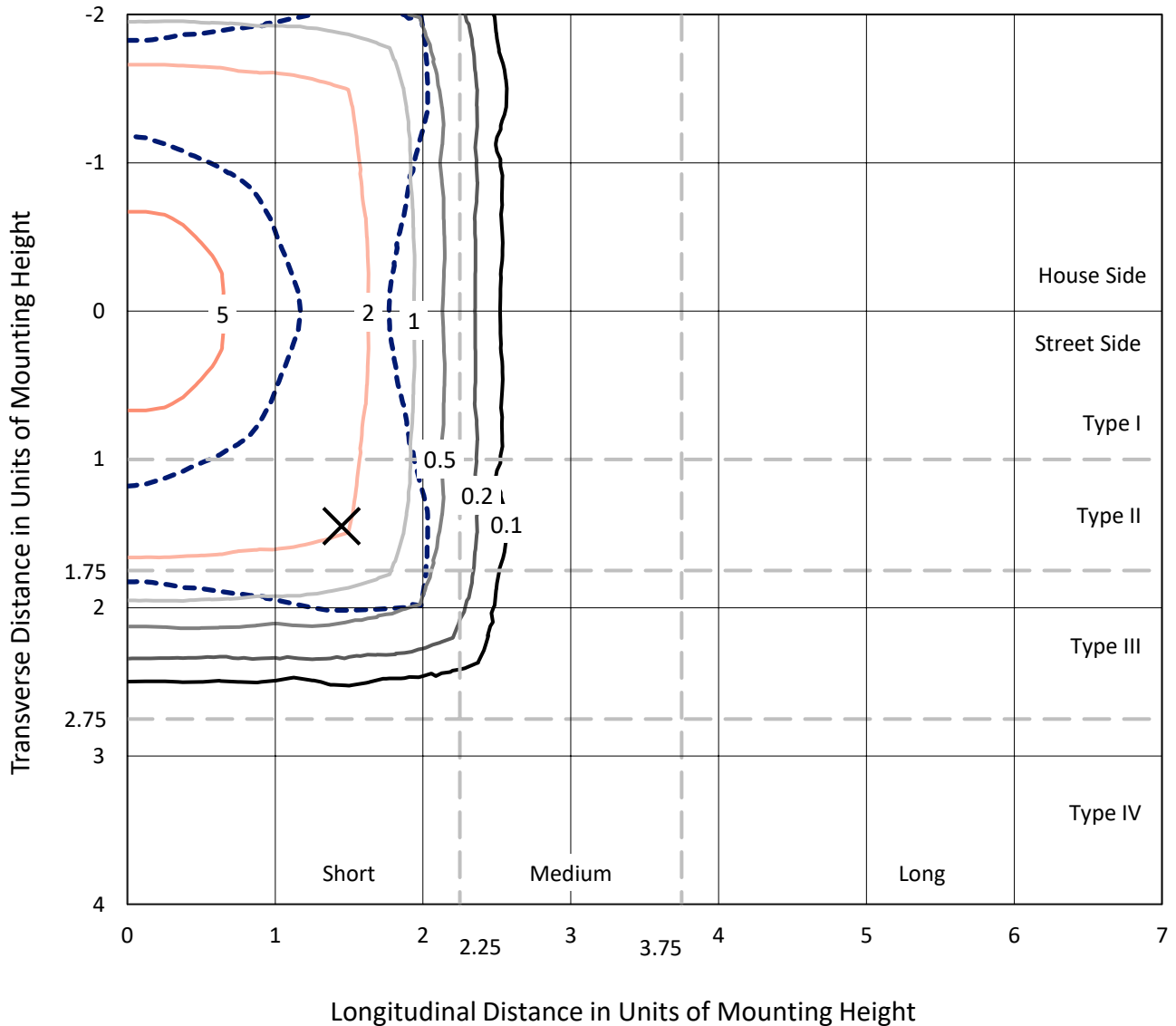
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

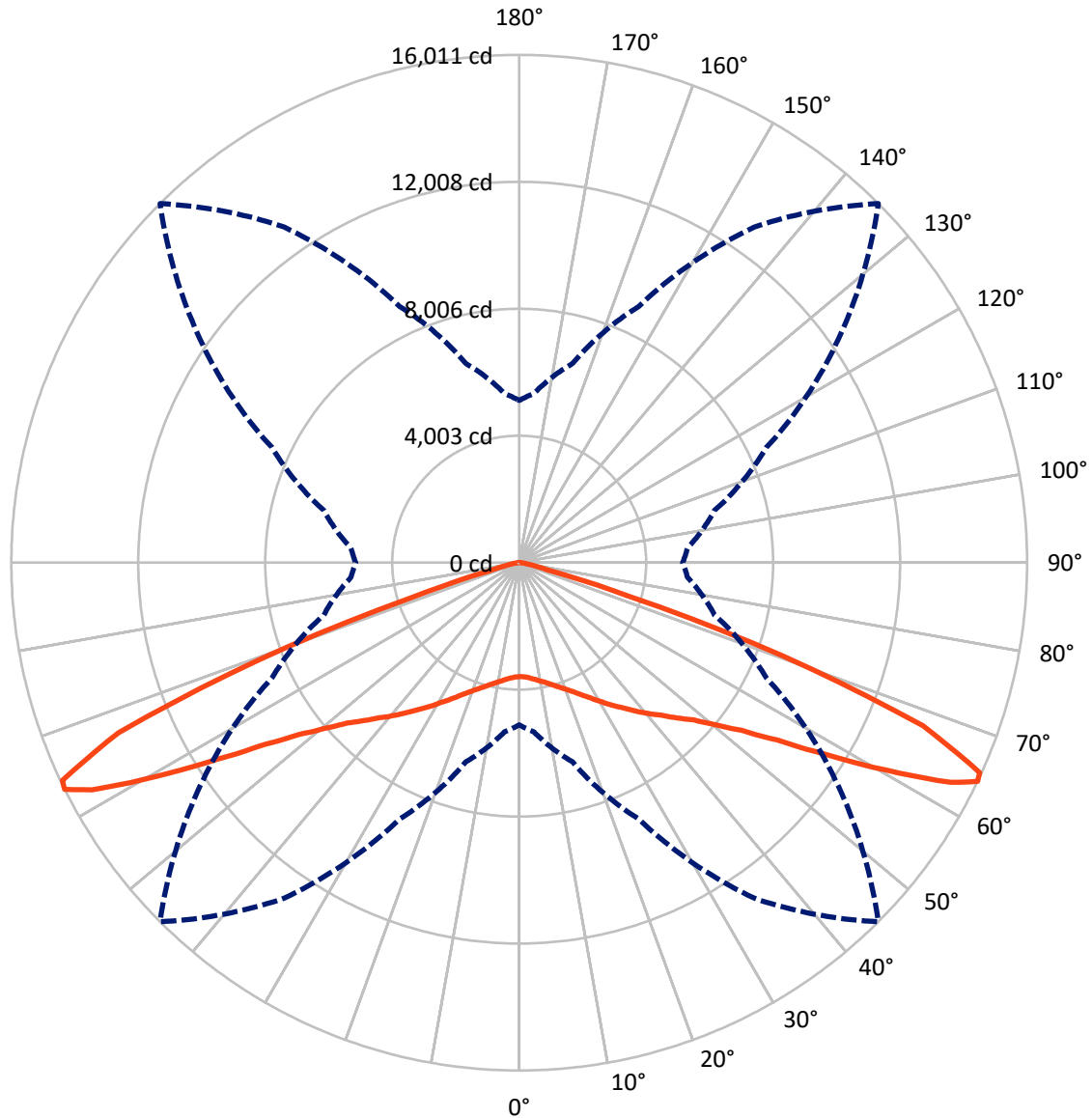
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	14860.5	0.0	14860.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14860.5	0.0	14860.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29721.0	0.0	29721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.9	1.2
10°-20°	1138.4	3.8
20°-30°	2151.2	7.2
30°-40°	3562.7	12.0
40°-50°	5561.9	18.7
50°-60°	8598.6	28.9
60°-70°	7414.4	24.9
70°-80°	840.2	2.8
80°-90°	100.7	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°	29721.0	100.0
0°-180°	29721.0	100.0

Coefficient of Utilization



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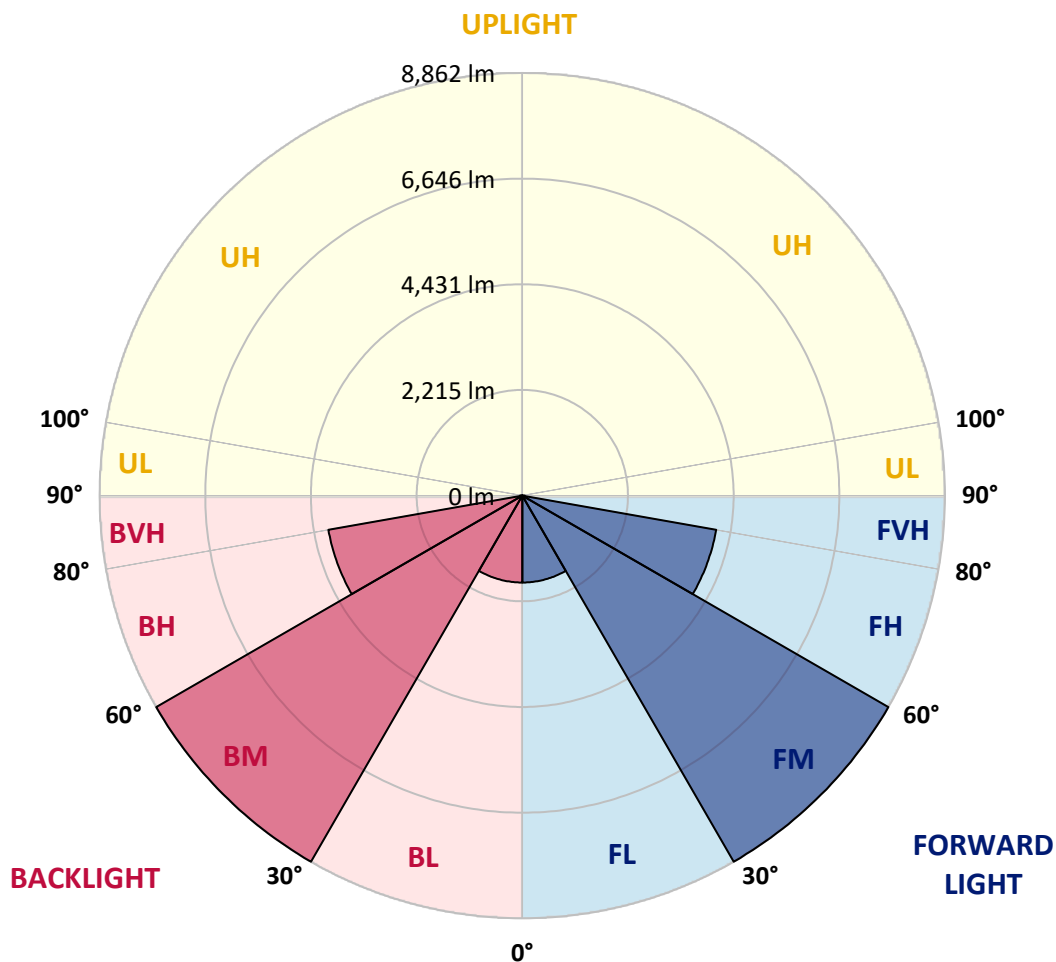
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1821.3	6.1			
FM	(30°-60°)	8861.6	29.8			
FH	(60°-80°)	4127.3	13.9			G2/5000
FVH	(80°-90°)	50.3	0.2			G1/100
BL	(0°-30°)	1821.3	6.1	B3/2500		
BM	(30°-60°)	8861.6	29.8	B5		
BH	(60°-80°)	4127.3	13.9	B4/5000		G2/5000
BVH	(80°-90°)	50.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3
2.5°	3606.5	3614.3	3608.0	3606.5	3604.9	3604.9	3604.9	3606.5	3612.7	3617.5	3614.3
5°	3652.1	3658.4	3655.2	3653.7	3652.1	3653.7	3650.5	3649.0	3653.7	3653.7	3652.1
7.5°	3708.8	3716.6	3713.5	3716.6	3718.2	3719.8	3711.9	3705.6	3704.0	3708.8	3705.6
10°	3785.9	3792.2	3793.8	3795.4	3798.5	3796.9	3787.5	3776.5	3774.9	3773.3	3771.7
12.5°	3872.5	3877.2	3878.8	3885.1	3889.8	3891.4	3880.4	3870.9	3855.2	3858.3	3852.0
15°	3970.1	3979.5	3978.0	3987.4	4000.0	4003.1	3992.1	3976.4	3962.2	3954.3	3949.6
17.5°	4089.7	4096.0	4092.9	4102.3	4118.1	4125.9	4116.5	4096.0	4081.9	4064.5	4055.1
20°	4231.4	4242.4	4245.6	4245.6	4259.7	4267.6	4253.4	4247.1	4225.1	4212.5	4204.6
22.5°	4392.0	4396.7	4406.1	4415.6	4429.7	4426.6	4421.9	4412.4	4392.0	4380.9	4368.4
25°	4573.0	4577.7	4601.3	4621.8	4626.5	4623.4	4617.1	4612.4	4593.5	4568.3	4558.8
27.5°	4783.9	4793.4	4824.9	4843.8	4843.8	4845.3	4832.7	4848.5	4807.6	4777.6	4774.5
30°	5048.4	5054.7	5081.5	5100.3	5090.9	5083.0	5079.9	5095.6	5051.5	4998.0	4985.4
32.5°	5309.7	5331.8	5355.4	5396.3	5363.2	5349.1	5345.9	5356.9	5306.6	5246.7	5229.4
35°	5589.9	5605.7	5649.7	5684.4	5654.5	5621.4	5635.6	5670.2	5610.4	5530.1	5527.0
37.5°	5900.0	5914.2	5970.9	6007.1	5985.0	5928.4	5952.0	5992.9	5933.1	5833.9	5813.5
40°	6222.7	6252.6	6323.5	6361.3	6325.1	6249.5	6293.6	6337.7	6284.1	6169.2	6123.6
42.5°	6584.8	6632.0	6734.3	6753.2	6684.0	6581.7	6658.8	6729.6	6691.8	6559.6	6542.3
45°	7008.3	7036.6	7162.5	7203.5	7107.4	6979.9	7075.9	7205.0	7176.7	7024.0	6990.9
47.5°	7482.1	7508.8	7639.5	7700.9	7579.7	7408.1	7581.3	7749.7	7732.4	7568.7	7552.9
50°	8042.5	8048.8	8229.8	8299.1	8177.9	8029.9	8184.2	8393.5	8324.3	8114.9	8111.8
52.5°	8656.4	8664.3	8892.6	9026.4	8958.7	8791.8	8974.4	9101.9	8925.6	8651.7	8631.2
55°	9188.5	9227.9	9539.5	9895.3	9988.2	9867.0	9922.1	9862.2	9427.8	9043.7	8983.9
57.5°	9405.7	9482.9	9956.7	10621.0	11225.5	11404.9	10979.9	10410.1	9627.7	9084.6	9026.4
60°	8875.2	8958.7	9693.8	10954.7	12497.4	13276.6	12081.8	10502.9	9172.8	8409.3	8318.0
62.5°	7107.4	7131.0	8212.5	10169.2	13238.9	15257.0	12546.2	9711.1	7848.9	6811.5	6775.3
64°	5114.5	5356.9	6502.9	8916.2	12914.6	16011.0	12278.6	8601.3	6375.4	5325.5	5155.4
65°	3825.3	3891.4	5242.0	7614.3	12343.2	15954.3	11759.1	7540.3	5279.8	4075.6	3886.7
67.5°	1445.1	1453.0	1934.7	3795.4	8787.1	13726.9	8974.4	4102.3	2224.3	1608.8	1550.6
70°	599.8	610.8	710.0	1276.7	3776.5	8813.8	4327.4	1479.7	813.9	659.6	650.1
72.5°	439.2	445.5	475.4	566.7	1161.7	3619.0	1423.1	628.1	477.0	426.6	421.9
75°	344.7	347.9	369.9	417.2	541.5	1002.8	591.9	431.3	363.6	327.4	324.3
77.5°	262.9	270.8	286.5	318.0	363.6	475.4	392.0	322.7	280.2	250.3	245.6
80°	181.0	190.5	220.4	233.0	244.0	308.5	267.6	244.0	218.8	182.6	171.6
82.5°	111.8	118.1	148.0	159.0	154.3	173.2	171.6	174.7	155.8	113.3	105.5
85°	58.2	61.4	80.3	83.4	77.1	70.8	88.2	102.3	96.0	64.5	63.0
87.5°	12.6	14.2	17.3	15.7	17.3	17.3	22.0	33.1	34.6	22.0	20.5
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)