

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: P453816

Luminaire Tested: **GALN-SA4D-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453816
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-SA4D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 23478 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

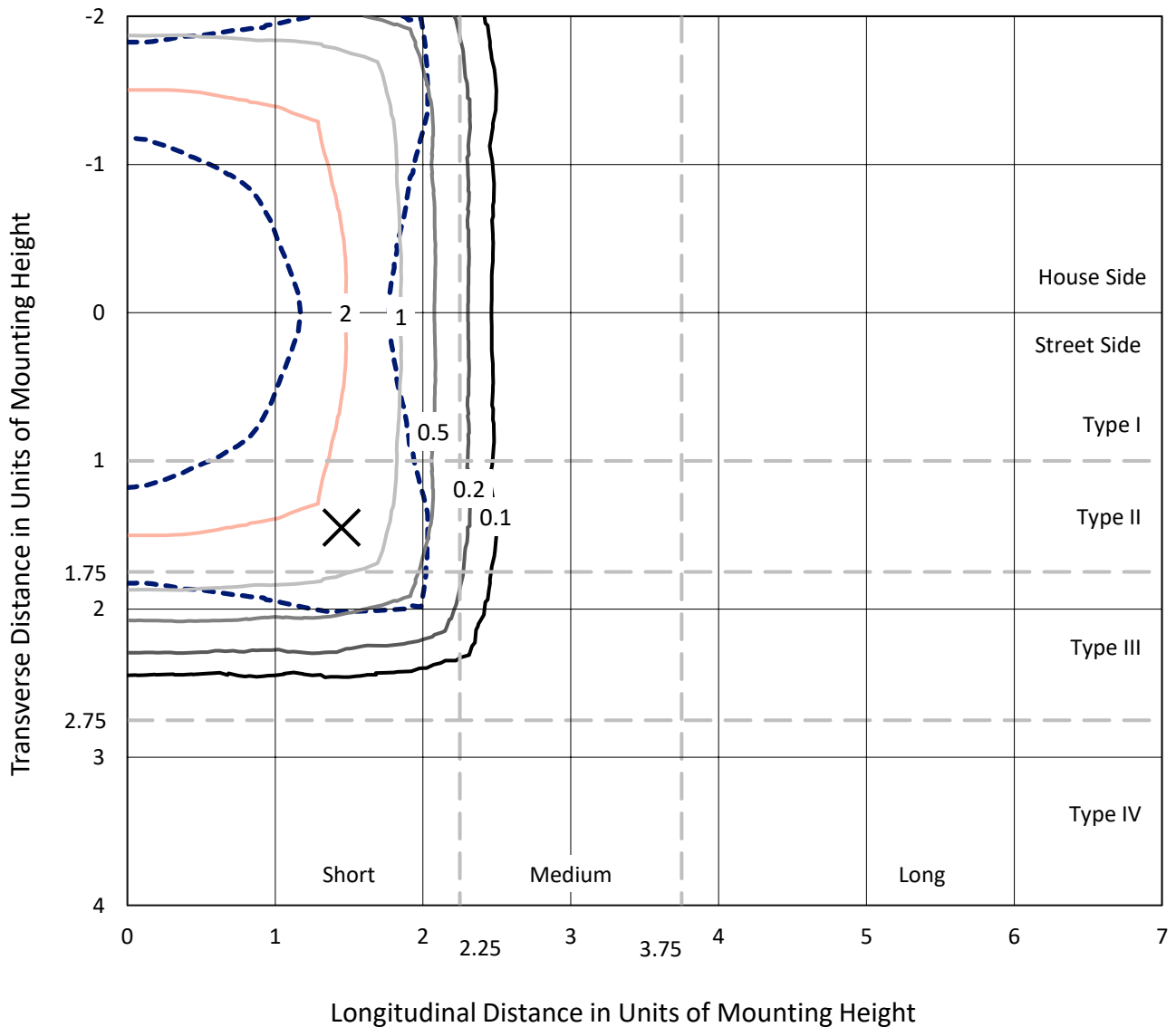
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

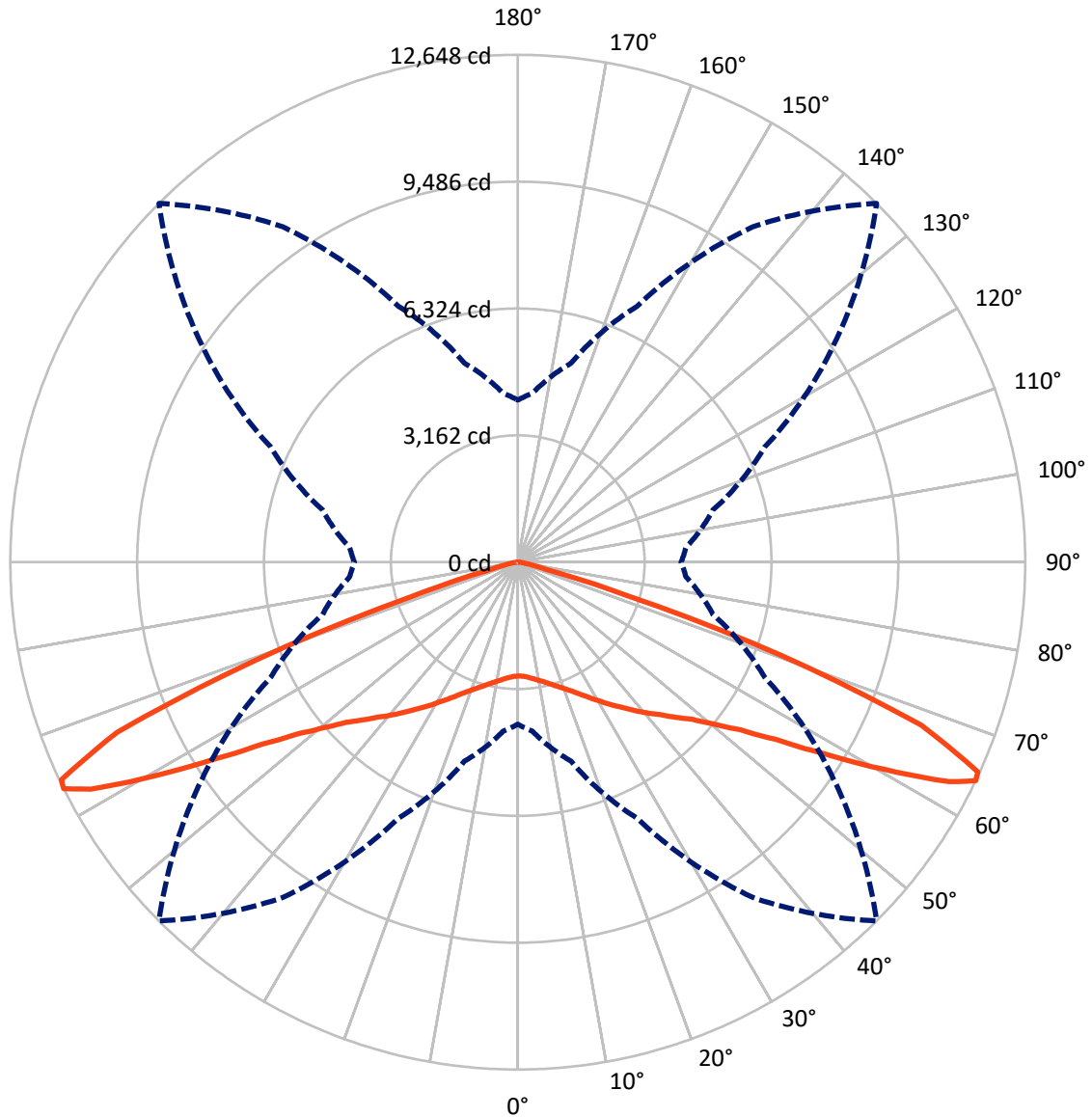
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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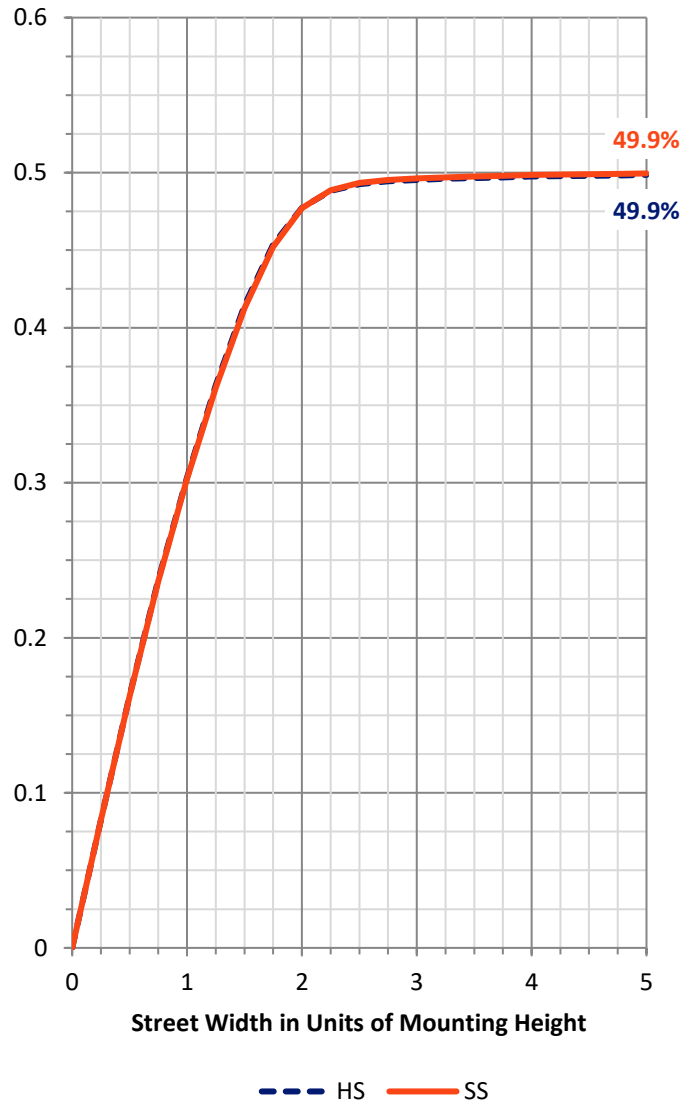
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11739.0	0.0	11739.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11739.0	0.0	11739.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23478.0	0.0	23478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.2
10°-20°	899.3	3.8
20°-30°	1699.4	7.2
30°-40°	2814.3	12.0
40°-50°	4393.6	18.7
50°-60°	6792.4	28.9
60°-70°	5857.0	24.9
70°-80°	663.7	2.8
80°-90°	79.5	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°	23478.0	100.0
0°-180°	23478.0	100.0

Coefficient of Utilization



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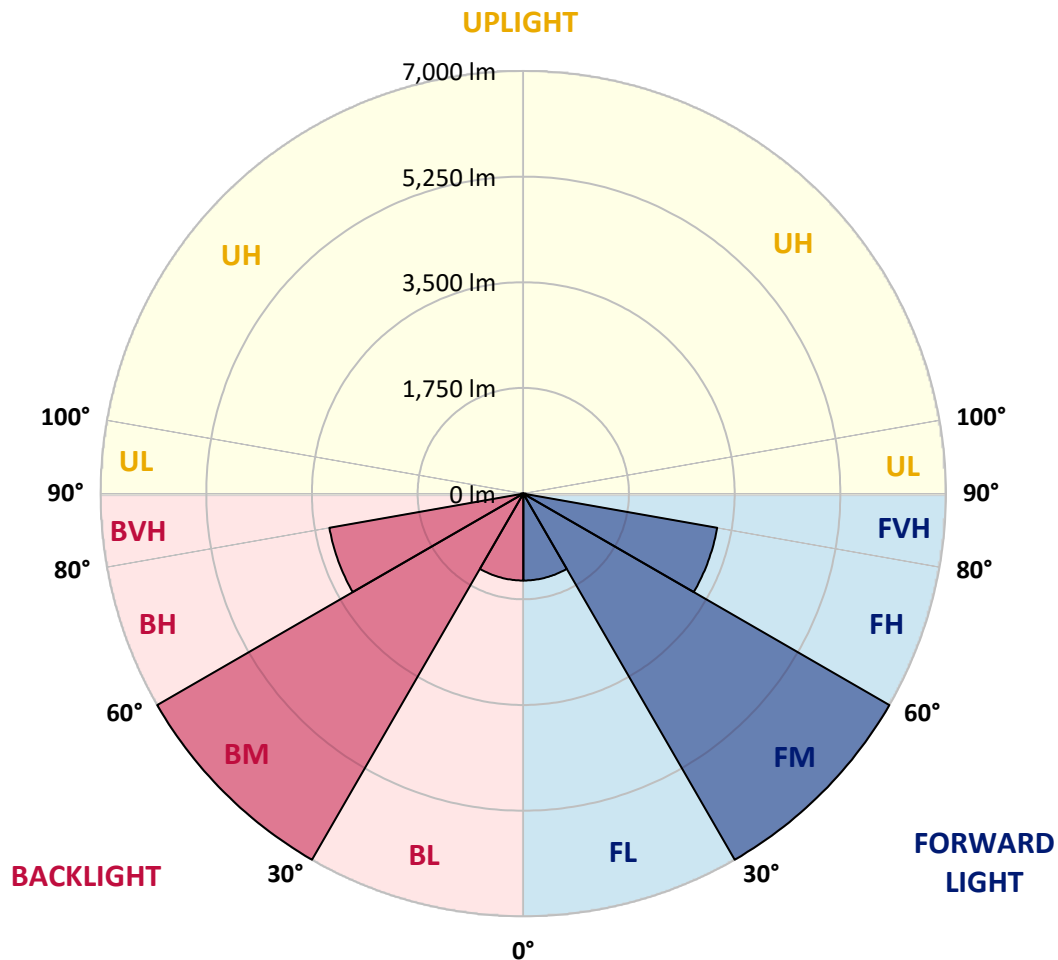
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.7	6.1			
FM	(30°-60°)	7000.2	29.8			
FH	(60°-80°)	3260.4	13.9			G2/5000
FVH	(80°-90°)	39.8	0.2			G1/100
BL	(0°-30°)	1438.7	6.1	B3/2500		
BM	(30°-60°)	7000.2	29.8	B4/8500		
BH	(60°-80°)	3260.4	13.9	B4/5000		G2/5000
BVH	(80°-90°)	39.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2848.9	2855.1	2850.1	2848.9	2847.7	2847.7	2848.9	2853.9	2857.6	2855.1	
5°	2885.0	2889.9	2887.5	2886.2	2885.0	2886.2	2883.7	2882.5	2886.2	2886.2	2885.0
7.5°	2929.7	2935.9	2933.5	2935.9	2937.2	2938.4	2932.2	2927.2	2926.0	2929.7	2927.2
10°	2990.7	2995.6	2996.9	2998.1	3000.6	2999.4	2991.9	2983.2	2982.0	2980.7	2979.5
12.5°	3059.1	3062.8	3064.0	3069.0	3072.7	3074.0	3065.3	3057.8	3045.4	3047.9	3042.9
15°	3136.2	3143.6	3142.4	3149.8	3159.8	3162.3	3153.6	3141.1	3129.9	3123.7	3120.0
17.5°	3230.7	3235.6	3233.2	3240.6	3253.0	3259.3	3251.8	3235.6	3224.4	3210.8	3203.3
20°	3342.6	3351.3	3353.8	3353.8	3365.0	3371.2	3360.0	3355.0	3337.6	3327.7	3321.4
22.5°	3469.4	3473.1	3480.6	3488.1	3499.3	3496.8	3493.0	3485.6	3469.4	3460.7	3450.8
25°	3612.4	3616.2	3634.8	3651.0	3654.7	3652.2	3647.2	3643.5	3628.6	3608.7	3601.2
27.5°	3779.1	3786.5	3811.4	3826.3	3826.3	3827.6	3817.6	3830.0	3797.7	3774.1	3771.6
30°	3988.0	3992.9	4014.1	4029.0	4021.5	4015.3	4012.8	4025.3	3990.5	3948.2	3938.2
32.5°	4194.4	4211.8	4230.5	4262.8	4236.7	4225.5	4223.0	4231.7	4191.9	4144.6	4131.0
35°	4415.7	4428.2	4463.0	4490.3	4466.7	4440.6	4451.8	4479.2	4431.9	4368.5	4366.0
37.5°	4660.7	4671.9	4716.7	4745.3	4727.9	4683.1	4701.7	4734.1	4686.8	4608.5	4592.3
40°	4915.6	4939.3	4995.2	5025.1	4996.5	4936.8	4971.6	5006.4	4964.1	4873.4	4837.3
42.5°	5201.6	5238.9	5319.8	5334.7	5280.0	5199.2	5260.1	5316.0	5286.2	5181.7	5168.1
45°	5536.1	5558.5	5658.0	5690.3	5614.5	5513.8	5589.6	5691.6	5669.2	5548.6	5522.5
47.5°	5910.4	5931.6	6034.8	6083.3	5987.5	5852.0	5988.8	6121.8	6108.2	5978.8	5966.4
50°	6353.1	6358.1	6501.1	6555.8	6460.1	6343.2	6465.1	6630.4	6575.7	6410.3	6407.9
52.5°	6838.1	6844.3	7024.6	7130.3	7076.9	6945.1	7089.3	7190.0	7050.8	6834.4	6818.2
55°	7258.4	7289.5	7535.7	7816.8	7890.1	7794.4	7837.9	7790.6	7447.4	7144.0	7096.8
57.5°	7430.0	7491.0	7865.3	8390.0	8867.5	9009.3	8673.5	8223.4	7605.4	7176.3	7130.3
60°	7011.0	7076.9	7657.6	8653.7	9872.3	10487.8	9544.0	8296.8	7246.0	6642.9	6570.8
62.5°	5614.5	5633.1	6487.4	8033.1	10458.0	12052.2	9910.8	7671.3	6200.2	5380.7	5352.1
64°	4040.2	4231.7	5137.0	7043.3	10201.8	12647.8	9699.5	6794.6	5036.3	4206.8	4072.5
65°	3021.8	3074.0	4140.9	6014.9	9750.4	12603.1	9289.1	5956.5	4170.8	3219.5	3070.2
67.5°	1141.6	1147.8	1528.3	2998.1	6941.3	10843.5	7089.3	3240.6	1757.1	1270.9	1224.9
70°	473.8	482.5	560.8	1008.5	2983.2	6962.5	3418.4	1168.9	642.9	521.0	513.6
72.5°	346.9	351.9	375.5	447.7	917.7	2858.9	1124.1	496.2	376.8	337.0	333.3
75°	272.3	274.8	292.2	329.5	427.8	792.1	467.6	340.7	287.3	258.7	256.2
77.5°	207.7	213.9	226.3	251.2	287.3	375.5	309.6	254.9	221.3	197.7	194.0
80°	143.0	150.5	174.1	184.0	192.7	243.7	211.4	192.7	172.8	144.2	135.5
82.5°	88.3	93.3	116.9	125.6	121.9	136.8	135.5	138.0	123.1	89.5	83.3
85°	46.0	48.5	63.4	65.9	60.9	56.0	69.6	80.8	75.9	51.0	49.7
87.5°	9.9	11.2	13.7	12.4	13.7	13.7	17.4	26.1	27.4	17.4	16.2
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)