

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: P452772

Luminaire Tested: **GALN-SA3D-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452772
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-SA3D-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 21949 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

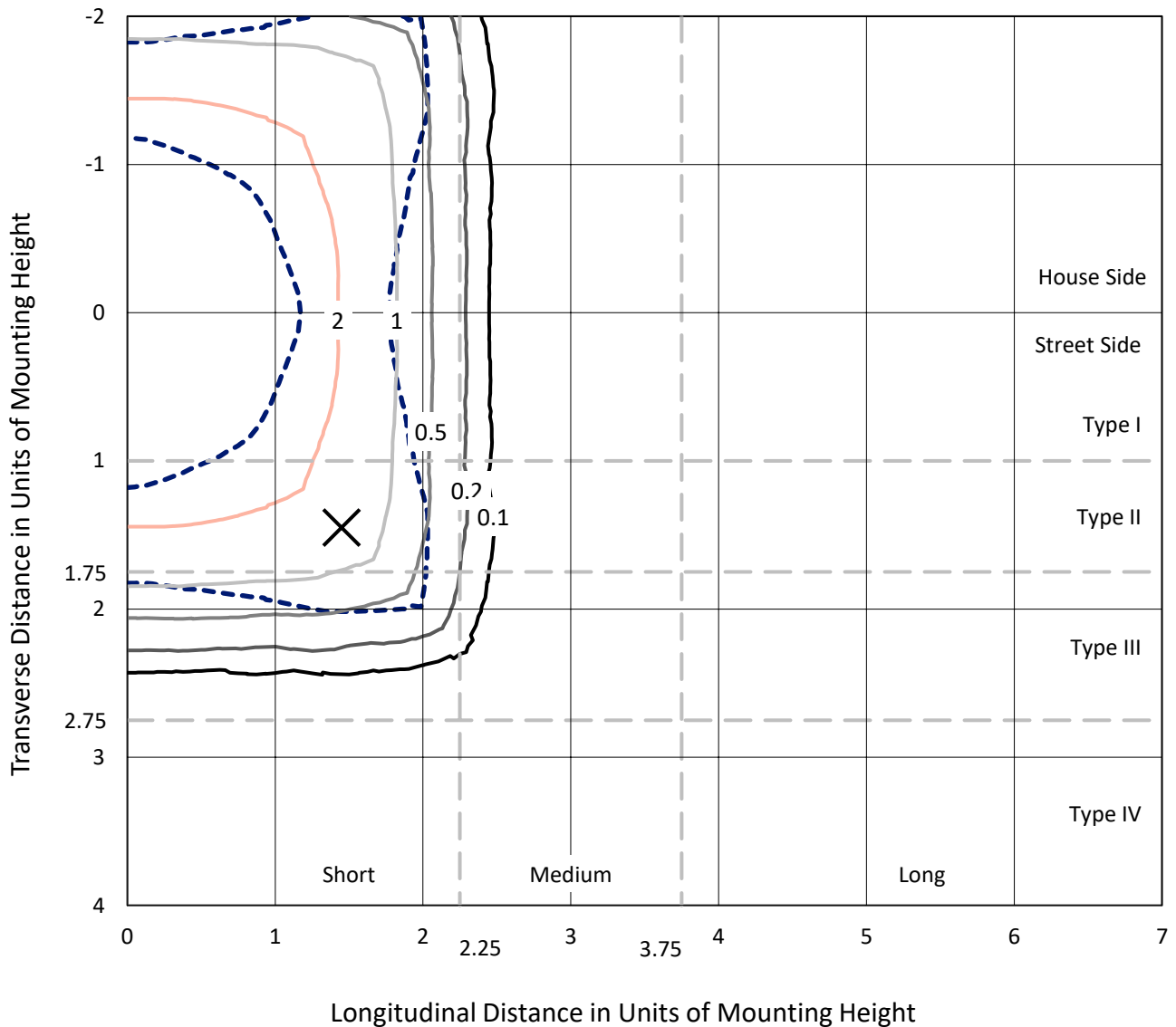
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

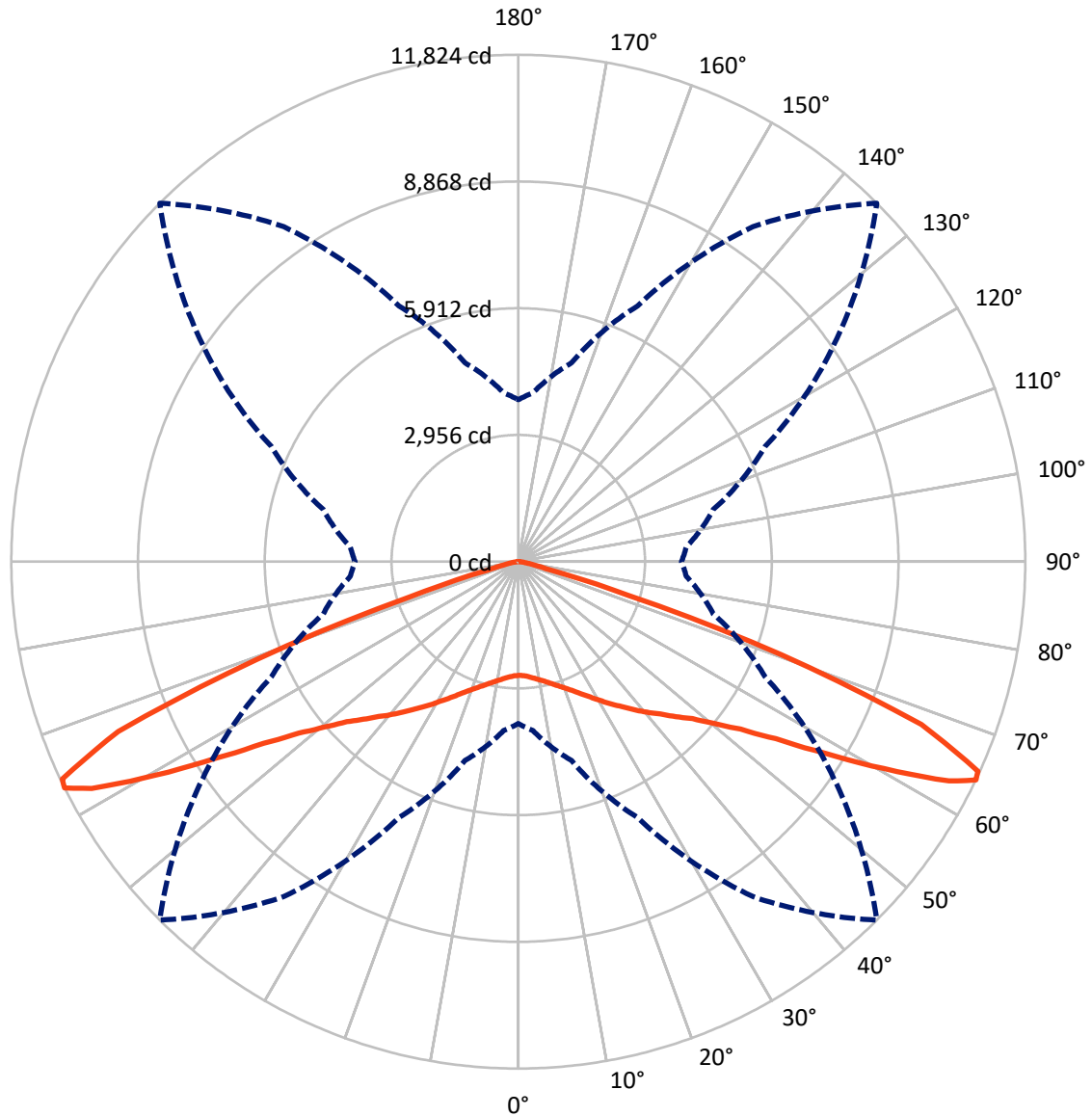
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	10974.5	0.0	10974.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10974.5	0.0	10974.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21949.0	0.0	21949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	1.2
10°-20°	840.7	3.8
20°-30°	1588.7	7.2
30°-40°	2631.0	12.0
40°-50°	4107.5	18.7
50°-60°	6350.1	28.9
60°-70°	5475.6	24.9
70°-80°	620.5	2.8
80°-90°	74.3	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°	21949.0	100.0
0°-180°	21949.0	100.0

Coefficient of Utilization



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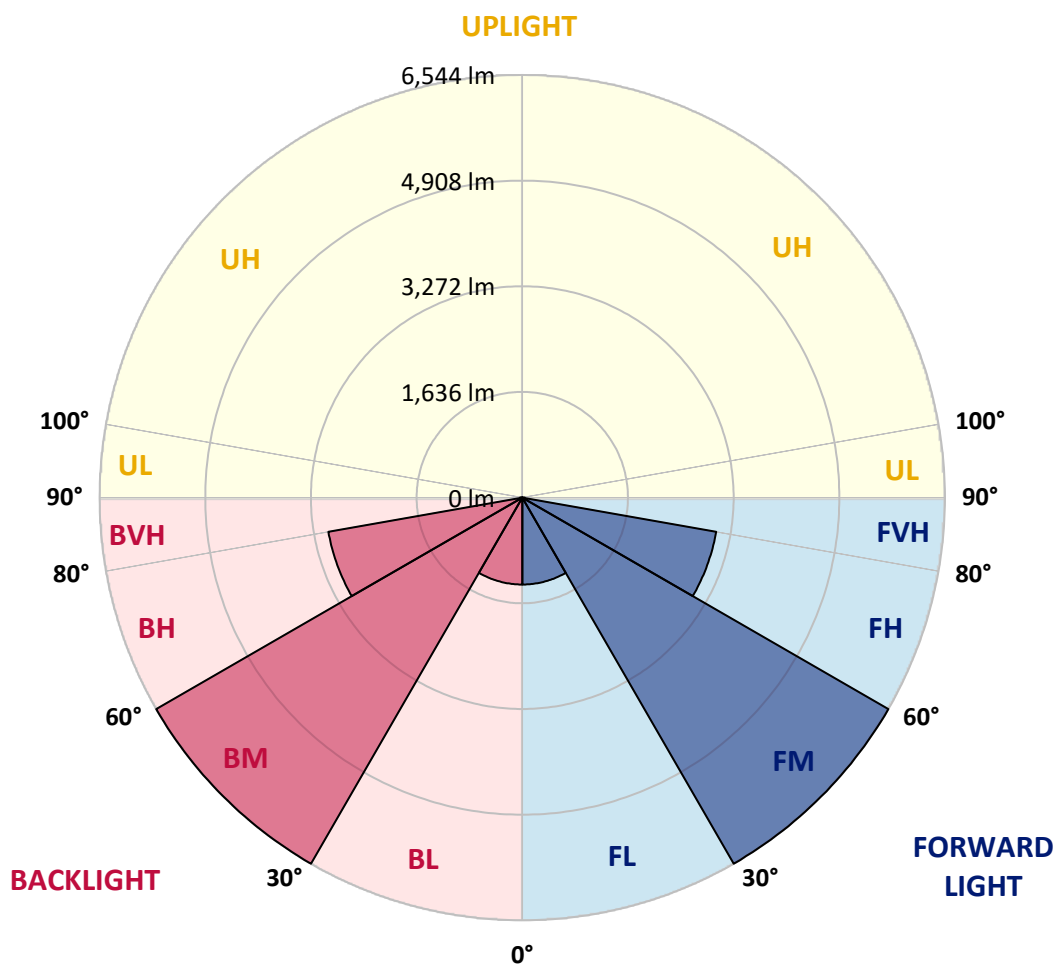
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1345.0	6.1			
FM	(30°-60°)	6544.3	29.8			
FH	(60°-80°)	3048.0	13.9			G2/5000
FVH	(80°-90°)	37.2	0.2			G1/100
BL	(0°-30°)	1345.0	6.1	B3/2500		
BM	(30°-60°)	6544.3	29.8	B4/8500		
BH	(60°-80°)	3048.0	13.9	B4/5000		G2/5000
BVH	(80°-90°)	37.2	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°	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9
2.5°	2663.4	2669.2	2664.5	2663.4	2662.2	2662.2	2662.2	2663.4	2668.0	2671.5	2669.2
5°	2697.1	2701.7	2699.4	2698.2	2697.1	2698.2	2695.9	2694.8	2698.2	2698.2	2697.1
7.5°	2738.9	2744.7	2742.4	2744.7	2745.9	2747.1	2741.3	2736.6	2735.4	2738.9	2736.6
10°	2795.9	2800.5	2801.7	2802.9	2805.2	2804.0	2797.1	2788.9	2787.8	2786.6	2785.4
12.5°	2859.8	2863.3	2864.5	2869.1	2872.6	2873.8	2865.6	2858.7	2847.0	2849.4	2844.7
15°	2931.9	2938.9	2937.7	2944.7	2954.0	2956.3	2948.2	2936.6	2926.1	2920.3	2916.8
17.5°	3020.3	3024.9	3022.6	3029.6	3041.2	3047.0	3040.0	3024.9	3014.5	3001.7	2994.7
20°	3124.9	3133.0	3135.4	3135.4	3145.8	3151.6	3141.2	3136.5	3120.2	3110.9	3105.1
22.5°	3243.5	3247.0	3253.9	3260.9	3271.4	3269.0	3265.6	3258.6	3243.5	3235.3	3226.0
25°	3377.2	3380.7	3398.1	3413.2	3416.7	3414.4	3409.7	3406.2	3392.3	3373.7	3366.7
27.5°	3532.9	3539.9	3563.2	3577.1	3577.1	3578.3	3569.0	3580.6	3550.4	3528.3	3526.0
30°	3728.3	3732.9	3752.7	3766.6	3759.6	3753.8	3751.5	3763.1	3730.6	3691.0	3681.7
32.5°	3921.2	3937.5	3954.9	3985.2	3960.8	3950.3	3948.0	3956.1	3918.9	3874.7	3861.9
35°	4128.2	4139.8	4172.3	4197.9	4175.8	4151.4	4161.9	4187.5	4143.3	4084.0	4081.7
37.5°	4357.2	4367.6	4409.5	4436.2	4420.0	4378.1	4395.5	4425.8	4381.6	4308.4	4293.2
40°	4595.5	4617.6	4669.9	4697.8	4671.1	4615.3	4647.8	4680.4	4640.8	4556.0	4522.3
42.5°	4862.9	4897.8	4973.3	4987.3	4936.1	4860.6	4917.5	4969.8	4941.9	4844.3	4831.5
45°	5175.6	5196.5	5289.5	5319.8	5248.8	5154.7	5225.6	5320.9	5300.0	5187.2	5162.8
47.5°	5525.5	5545.3	5641.8	5687.1	5597.6	5470.9	5598.8	5723.2	5710.4	5589.5	5577.8
50°	5939.4	5944.0	6077.7	6128.9	6039.4	5930.1	6044.0	6198.6	6147.5	5992.9	5990.5
52.5°	6392.8	6398.6	6567.2	6666.0	6616.0	6492.8	6627.6	6721.8	6591.6	6389.3	6374.2
55°	6785.7	6814.8	7045.0	7307.7	7376.3	7286.8	7327.5	7283.3	6962.4	6678.8	6634.6
57.5°	6946.1	7003.1	7353.0	7843.6	8290.0	8422.6	8108.7	7687.8	7110.1	6709.0	6666.0
60°	6554.4	6616.0	7158.9	8090.1	9229.4	9804.8	8922.5	7756.4	6774.1	6210.3	6142.8
62.5°	5248.8	5266.3	6064.9	7510.0	9776.9	11267.3	9265.4	7171.7	5796.4	5030.3	5003.6
64°	3777.1	3956.1	4802.4	6584.6	9537.4	11824.1	9067.8	6352.1	4708.3	3932.9	3807.3
65°	2825.0	2873.8	3871.2	5623.2	9115.4	11782.3	8684.1	5568.5	3899.1	3009.8	2870.3
67.5°	1067.2	1073.0	1428.8	2802.9	6489.3	10137.3	6627.6	3029.6	1642.7	1188.1	1145.1
70°	442.9	451.1	524.3	942.8	2788.9	6509.0	3195.8	1092.8	601.0	487.1	480.1
72.5°	324.3	329.0	351.1	418.5	858.0	2672.7	1050.9	463.9	352.2	315.0	311.6
75°	254.6	256.9	273.2	308.1	399.9	740.5	437.1	318.5	268.5	241.8	239.5
77.5°	194.1	200.0	211.6	234.8	268.5	351.1	289.5	238.3	206.9	184.8	181.4
80°	133.7	140.7	162.8	172.1	180.2	227.9	197.6	180.2	161.6	134.9	126.7
82.5°	82.5	87.2	109.3	117.4	113.9	127.9	126.7	129.0	115.1	83.7	77.9
85°	43.0	45.3	59.3	61.6	57.0	52.3	65.1	75.6	70.9	47.7	46.5
87.5°	9.3	10.5	12.8	11.6	12.8	12.8	16.3	24.4	25.6	16.3	15.1
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)