

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: P452801

Luminaire Tested: **GALN-SA3D-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452801
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-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 24101 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

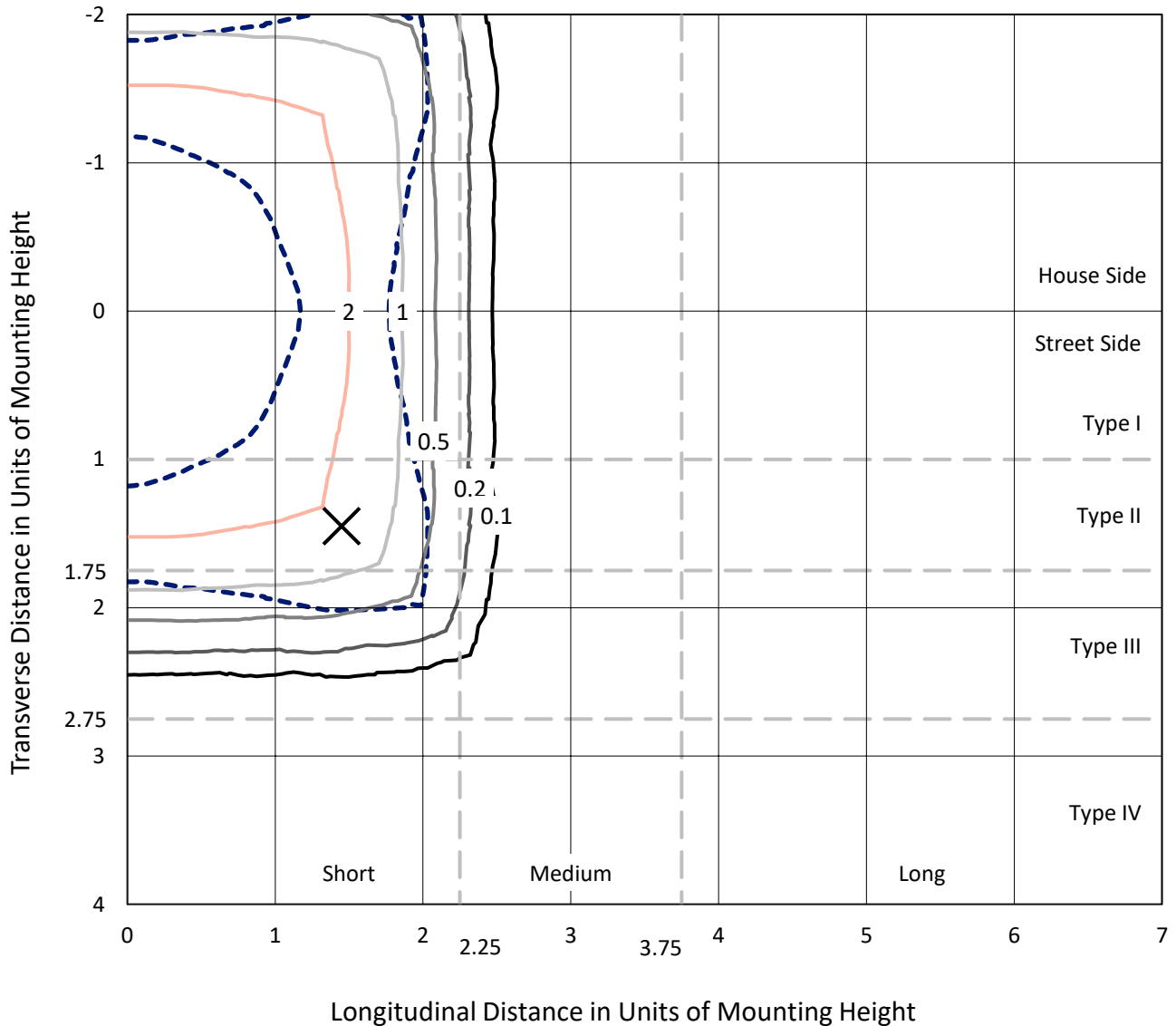
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

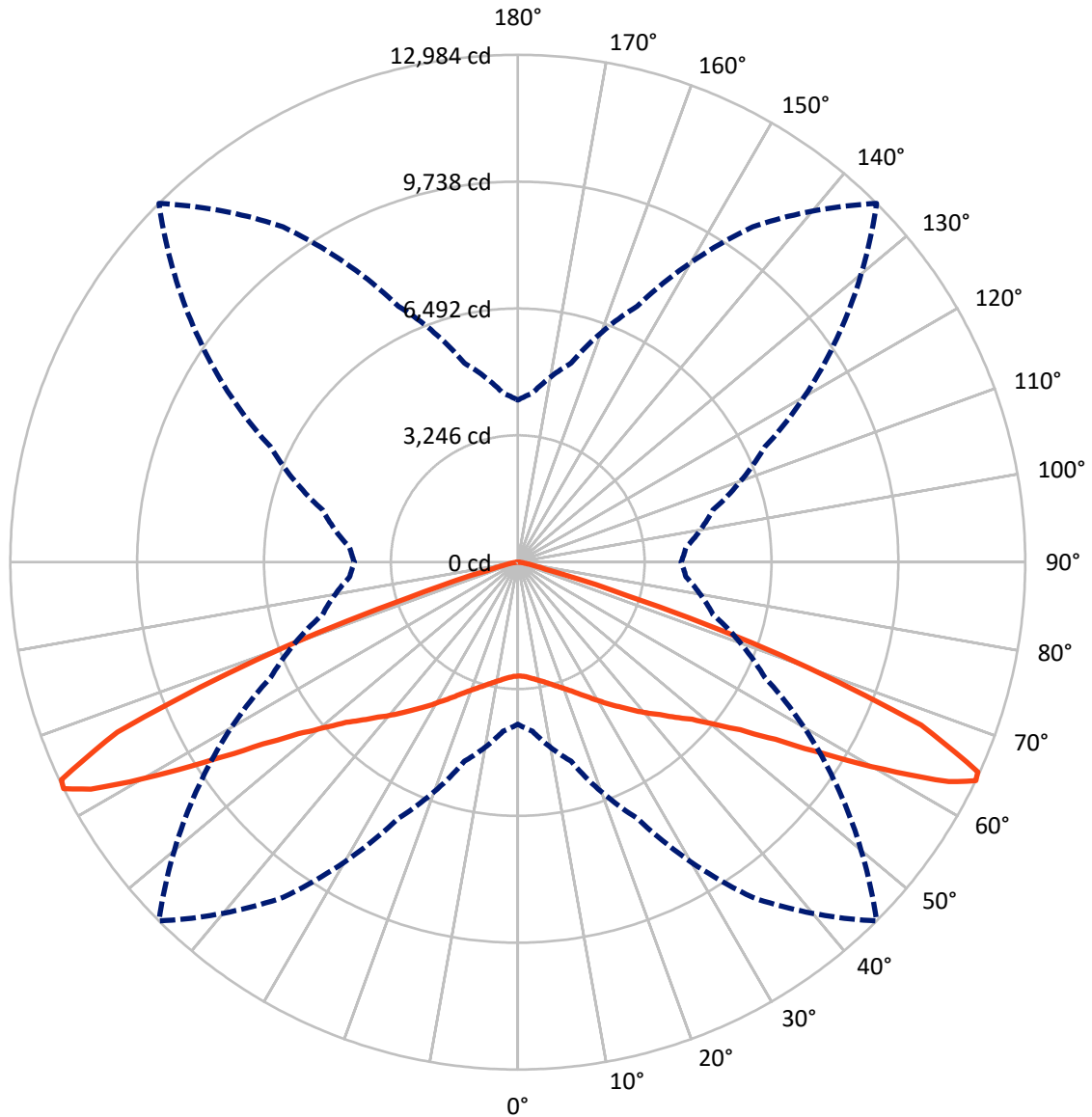
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	12050.5	0.0	12050.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12050.5	0.0	12050.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24101.0	0.0	24101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	1.2
10°-20°	923.1	3.8
20°-30°	1744.4	7.2
30°-40°	2889.0	12.0
40°-50°	4510.2	18.7
50°-60°	6972.6	28.9
60°-70°	6012.4	24.9
70°-80°	681.4	2.8
80°-90°	81.6	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°	24101.0	100.0
0°-180°	24101.0	100.0

Coefficient of Utilization



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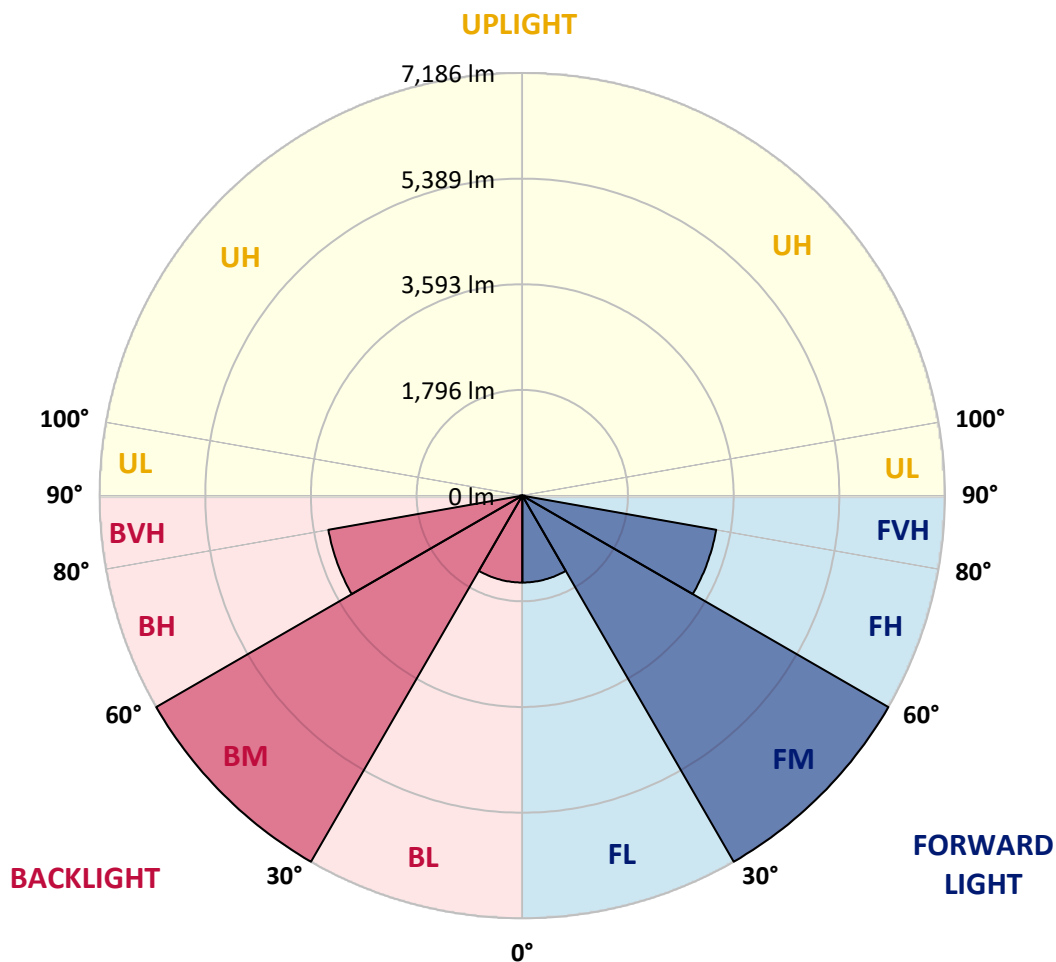
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1476.9	6.1			
FM (30°-60°)	7185.9	29.8			
FH (60°-80°)	3346.9	13.9			G2/5000
FVH (80°-90°)	40.8	0.2			G1/100
BL (0°-30°)	1476.9	6.1	B3/2500		
BM (30°-60°)	7185.9	29.8	B4/8500		
BH (60°-80°)	3346.9	13.9	B4/5000		G2/5000
BVH (80°-90°)	40.8	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°	2913.0	2913.0	2913.0	2913.0	2913.0	2913.0	2913.0	2913.0	2913.0	2913.0	2913.0
2.5°	2924.5	2930.9	2925.8	2924.5	2923.2	2923.2	2923.2	2924.5	2929.6	2933.4	2930.9
5°	2961.5	2966.6	2964.1	2962.8	2961.5	2962.8	2960.2	2959.0	2962.8	2962.8	2961.5
7.5°	3007.5	3013.9	3011.3	3013.9	3015.1	3016.4	3010.0	3004.9	3003.6	3007.5	3004.9
10°	3070.0	3075.1	3076.4	3077.7	3080.2	3079.0	3071.3	3062.4	3061.1	3059.8	3058.5
12.5°	3140.2	3144.1	3145.3	3150.4	3154.3	3155.5	3146.6	3139.0	3126.2	3128.7	3123.6
15°	3219.4	3227.0	3225.8	3233.4	3243.6	3246.2	3237.2	3224.5	3213.0	3206.6	3202.8
17.5°	3316.4	3321.5	3318.9	3326.6	3339.4	3345.8	3338.1	3321.5	3310.0	3296.0	3288.3
20°	3431.3	3440.2	3442.8	3442.8	3454.3	3460.6	3449.1	3444.0	3426.2	3416.0	3409.6
22.5°	3561.5	3565.3	3573.0	3580.6	3592.1	3589.6	3585.7	3578.1	3561.5	3552.5	3542.3
25°	3708.3	3712.1	3731.3	3747.9	3751.7	3749.1	3744.0	3740.2	3724.9	3704.5	3696.8
27.5°	3879.3	3887.0	3912.5	3927.8	3927.8	3929.1	3918.9	3931.7	3898.5	3874.2	3871.7
30°	4093.8	4098.9	4120.6	4135.9	4128.3	4121.9	4119.3	4132.1	4096.3	4052.9	4042.7
32.5°	4305.7	4323.6	4342.7	4375.9	4349.1	4337.6	4335.1	4344.0	4303.1	4254.6	4240.6
35°	4532.9	4545.7	4581.4	4609.5	4585.2	4558.4	4569.9	4598.0	4549.5	4484.4	4481.9
37.5°	4784.4	4795.9	4841.8	4871.2	4853.3	4807.4	4826.5	4859.7	4811.2	4730.8	4714.2
40°	5046.1	5070.3	5127.8	5158.4	5129.0	5067.8	5103.5	5139.3	5095.9	5002.7	4965.6
42.5°	5339.7	5378.0	5460.9	5476.3	5420.1	5337.1	5399.7	5457.1	5426.5	5319.2	5305.2
45°	5683.1	5706.0	5808.2	5841.3	5763.5	5660.1	5737.9	5842.6	5819.6	5695.8	5669.0
47.5°	6067.3	6089.0	6194.9	6244.7	6146.4	6007.3	6147.7	6284.3	6270.3	6137.5	6124.7
50°	6521.7	6526.8	6673.6	6729.8	6631.5	6511.5	6636.6	6806.4	6750.2	6580.4	6577.9
52.5°	7019.6	7025.9	7211.0	7319.5	7264.7	7129.3	7277.4	7380.8	7237.8	7015.7	6999.1
55°	7451.0	7482.9	7735.7	8024.2	8099.5	8001.2	8045.9	7997.4	7645.1	7333.6	7285.1
57.5°	7627.2	7689.7	8074.0	8612.7	9102.8	9248.4	8903.7	8441.6	7807.2	7366.8	7319.5
60°	7197.0	7264.7	7860.8	8883.3	10134.3	10766.1	9797.3	8516.9	7438.3	6819.2	6745.1
62.5°	5763.5	5782.6	6659.6	8246.3	10735.5	12372.0	10173.8	7874.8	6364.7	5523.5	5494.1
64°	4147.4	4344.0	5273.3	7230.2	10472.5	12983.5	9956.8	6974.9	5169.9	4318.5	4180.6
65°	3101.9	3155.5	4250.8	6174.5	10009.2	12937.5	9535.6	6114.5	4281.4	3304.9	3151.7
67.5°	1171.8	1178.2	1568.8	3077.7	7125.5	11131.2	7277.4	3326.6	1803.7	1304.6	1257.4
70°	486.4	495.3	575.7	1035.3	3062.4	7147.2	3509.1	1199.9	660.0	534.9	527.2
72.5°	356.1	361.3	385.5	459.5	942.1	2934.7	1154.0	509.3	386.8	345.9	342.1
75°	279.6	282.1	300.0	338.3	439.1	813.1	480.0	349.8	294.9	265.5	263.0
77.5°	213.2	219.6	232.3	257.9	294.9	385.5	317.9	261.7	227.2	203.0	199.1
80°	146.8	154.5	178.7	188.9	197.9	250.2	217.0	197.9	177.4	148.1	139.1
82.5°	90.6	95.7	120.0	128.9	125.1	140.4	139.1	141.7	126.4	91.9	85.5
85°	47.2	49.8	65.1	67.7	62.5	57.4	71.5	83.0	77.9	52.3	51.1
87.5°	10.2	11.5	14.0	12.8	14.0	14.0	17.9	26.8	28.1	17.9	16.6
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)