

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: P453265

Luminaire Tested: **GALN-SA4B-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453265
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-SA4B-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23492 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

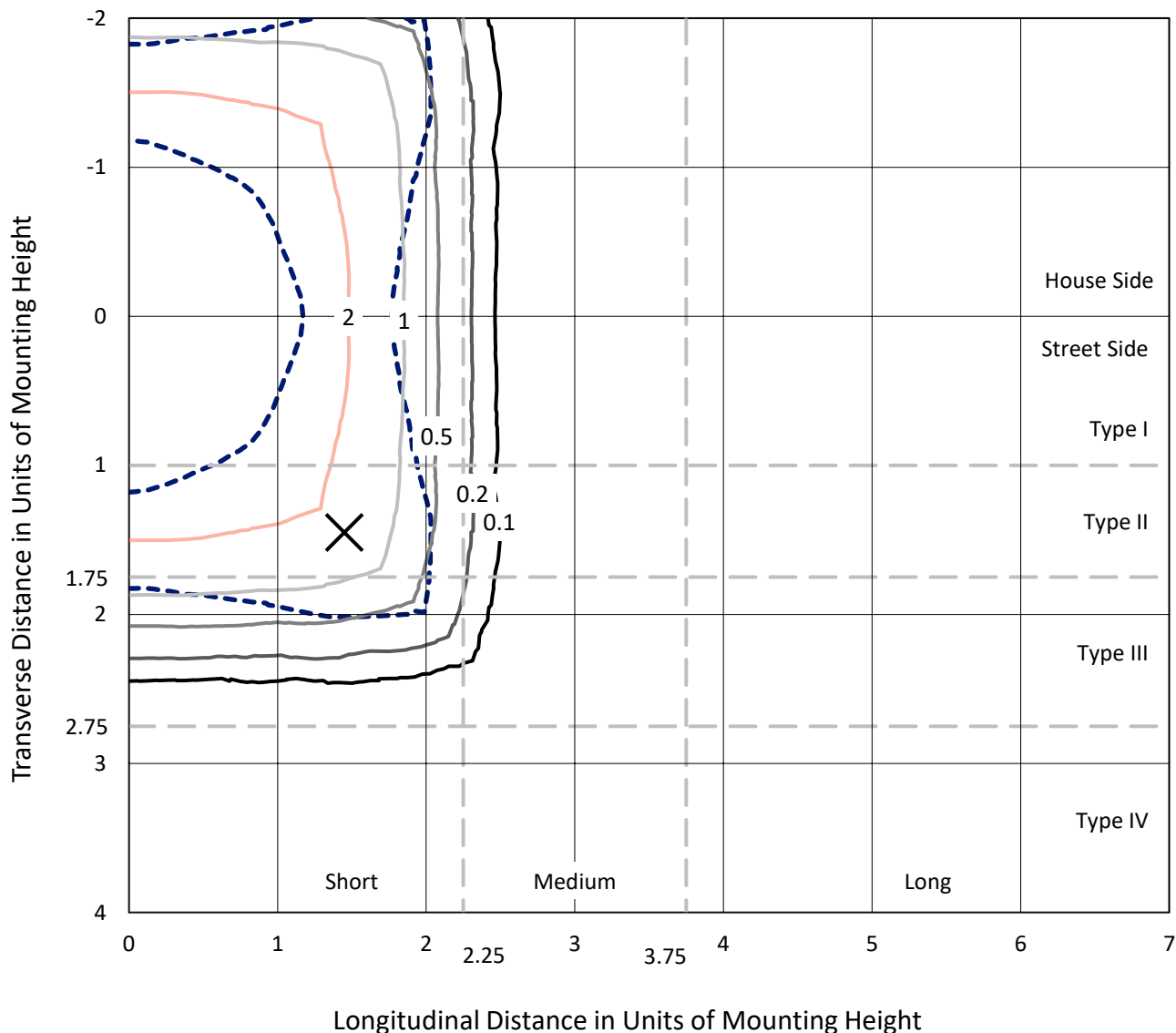
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

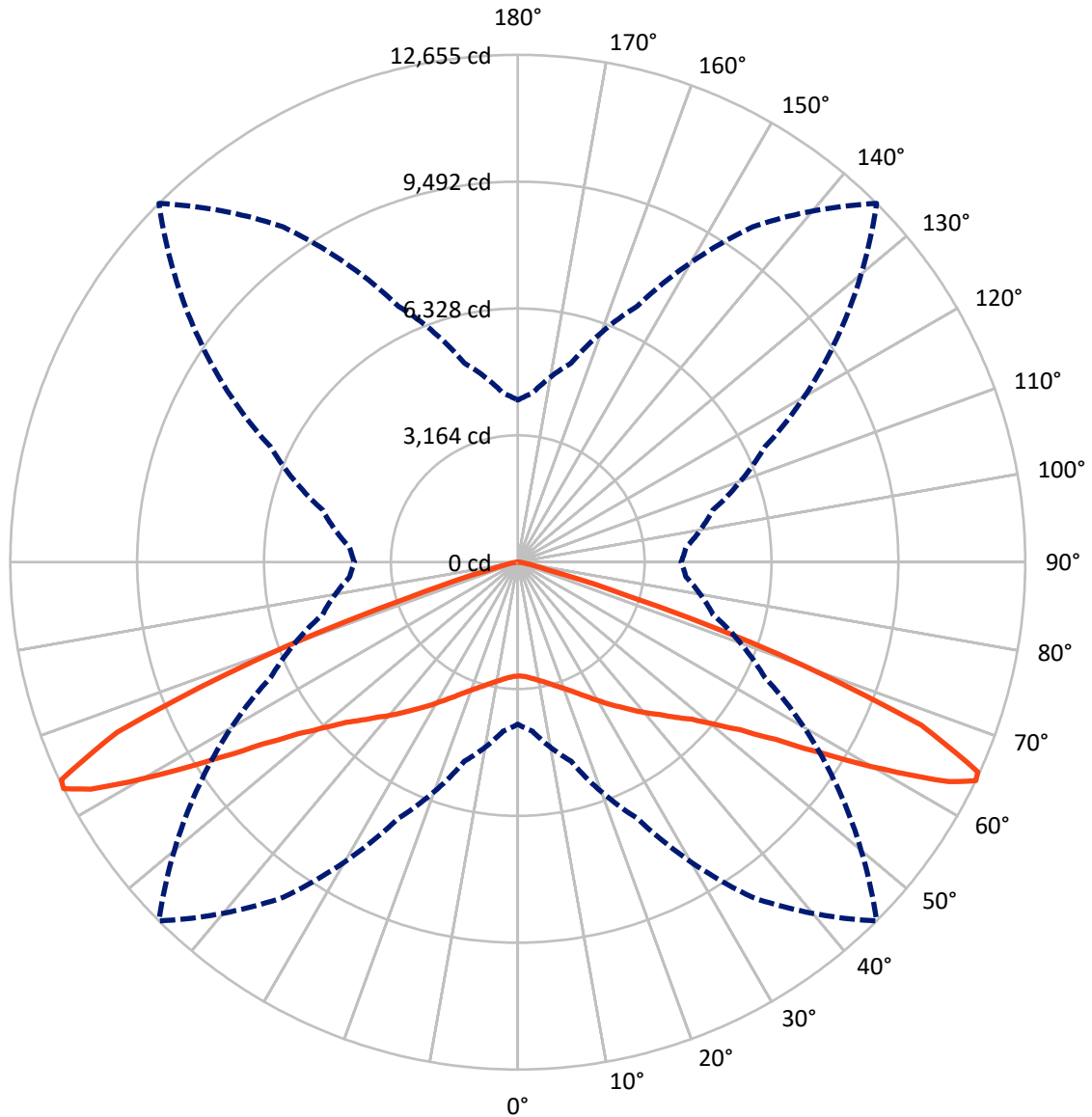
✕ Max cd
 - - - 1/2 Max cd



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	11746.0	0.0	11746.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11746.0	0.0	11746.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23492.0	0.0	23492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	1.2
10°-20°	899.8	3.8
20°-30°	1700.4	7.2
30°-40°	2816.0	12.0
40°-50°	4396.2	18.7
50°-60°	6796.5	28.9
60°-70°	5860.5	24.9
70°-80°	664.1	2.8
80°-90°	79.6	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°	23492.0	100.0
0°-180°	23492.0	100.0

Coefficient of Utilization



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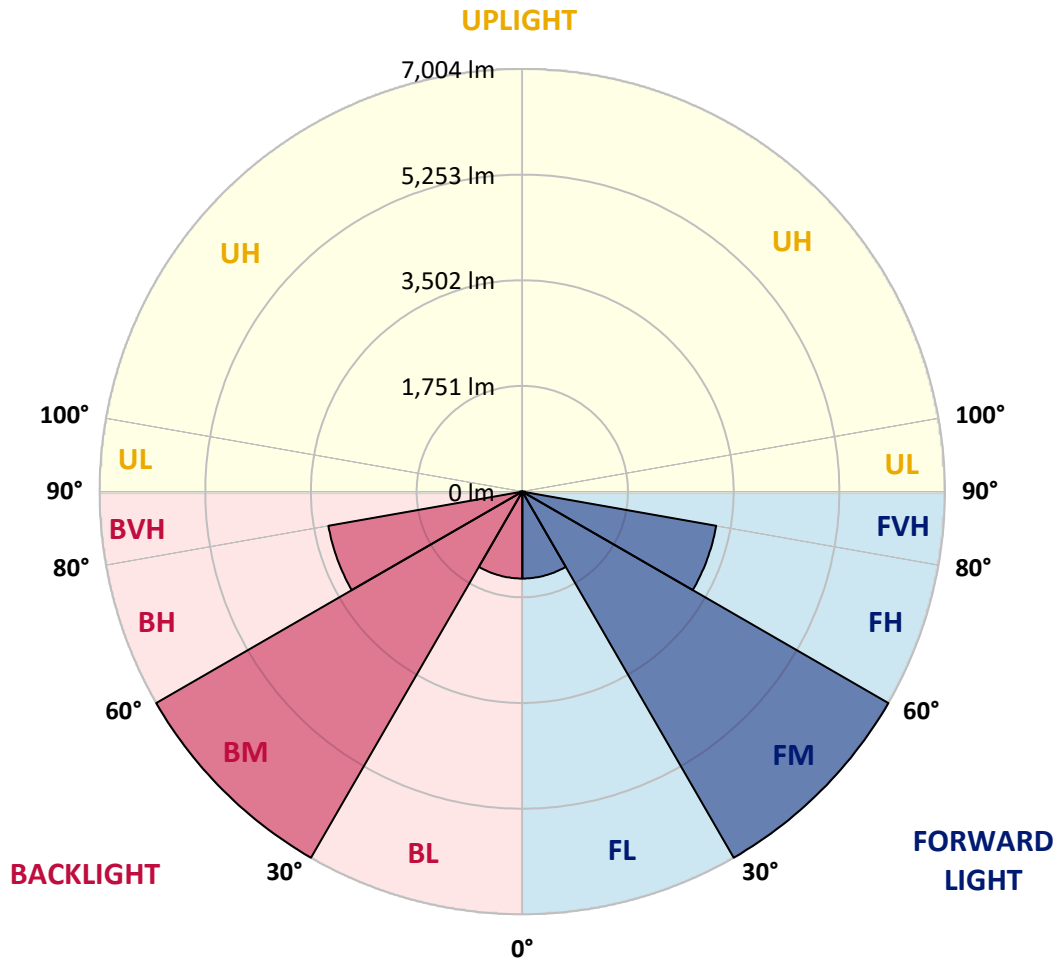
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1439.6	6.1			
FM	(30°-60°)	7004.3	29.8			
FH	(60°-80°)	3262.3	13.9			G2/5000
FVH	(80°-90°)	39.8	0.2			G1/100
BL	(0°-30°)	1439.6	6.1	B3/2500		
BM	(30°-60°)	7004.3	29.8	B4/8500		
BH	(60°-80°)	3262.3	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°	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4
2.5°	2850.6	2856.8	2851.8	2850.6	2849.4	2849.4	2849.4	2850.6	2855.6	2859.3	2856.8
5°	2886.7	2891.7	2889.2	2887.9	2886.7	2887.9	2885.4	2884.2	2887.9	2887.9	2886.7
7.5°	2931.5	2937.7	2935.2	2937.7	2938.9	2940.2	2934.0	2929.0	2927.7	2931.5	2929.0
10°	2992.4	2997.4	2998.7	2999.9	3002.4	3001.2	2993.7	2985.0	2983.7	2982.5	2981.2
12.5°	3060.9	3064.6	3065.9	3070.8	3074.6	3075.8	3067.1	3059.6	3047.2	3049.7	3044.7
15°	3138.0	3145.5	3144.2	3151.7	3161.7	3164.2	3155.4	3143.0	3131.8	3125.6	3121.9
17.5°	3232.6	3237.6	3235.1	3242.5	3255.0	3261.2	3253.7	3237.6	3226.4	3212.7	3205.2
20°	3344.6	3353.3	3355.8	3355.8	3367.0	3373.2	3362.0	3357.0	3339.6	3329.6	3323.4
22.5°	3471.5	3475.2	3482.7	3490.2	3501.3	3498.9	3495.1	3487.7	3471.5	3462.8	3452.8
25°	3614.6	3618.3	3637.0	3653.1	3656.9	3654.4	3649.4	3645.7	3630.8	3610.8	3603.4
27.5°	3781.3	3788.8	3813.7	3828.6	3828.6	3829.8	3819.9	3832.3	3800.0	3776.3	3773.8
30°	3990.3	3995.3	4016.5	4031.4	4023.9	4017.7	4015.2	4027.7	3992.8	3950.5	3940.6
32.5°	4196.9	4214.3	4233.0	4265.3	4239.2	4228.0	4225.5	4234.2	4194.4	4147.1	4133.4
35°	4418.4	4430.8	4465.7	4493.0	4469.4	4443.3	4454.5	4481.8	4434.5	4371.1	4368.6
37.5°	4663.5	4674.7	4719.5	4748.1	4730.7	4685.9	4704.6	4736.9	4689.6	4611.2	4595.1
40°	4918.6	4942.2	4998.2	5028.1	4999.4	4939.7	4974.6	5009.4	4967.1	4876.3	4840.2
42.5°	5204.7	5242.1	5322.9	5337.9	5283.1	5202.3	5263.2	5319.2	5289.4	5184.8	5171.1
45°	5539.4	5561.8	5661.4	5693.7	5617.8	5517.1	5593.0	5695.0	5672.6	5551.9	5525.8
47.5°	5914.0	5935.1	6038.4	6086.9	5991.1	5855.5	5992.4	6125.5	6111.8	5982.4	5970.0
50°	6356.9	6361.9	6505.0	6559.7	6463.9	6347.0	6468.9	6634.4	6579.7	6414.2	6411.7
52.5°	6842.2	6848.4	7028.8	7134.6	7081.1	6949.2	7093.5	7194.3	7055.0	6838.5	6822.3
55°	7262.8	7293.9	7540.2	7821.4	7894.8	7799.0	7842.6	7795.3	7451.9	7148.3	7101.0
57.5°	7434.5	7495.4	7869.9	8395.0	8872.8	9014.7	8678.7	8228.3	7609.9	7180.6	7134.6
60°	7015.1	7081.1	7662.2	8658.8	9878.2	10494.1	9549.7	8301.7	7250.3	6646.8	6574.7
62.5°	5617.8	5636.5	6491.3	8037.9	10464.2	12059.4	9916.8	7675.8	6203.9	5383.9	5355.3
64°	4042.6	4234.2	5140.0	7047.5	10207.9	12655.4	9705.2	6798.6	5039.3	4209.3	4075.0
65°	3023.6	3075.8	4143.4	6018.5	9756.2	12610.6	9294.6	5960.0	4173.3	3221.4	3072.1
67.5°	1142.2	1148.5	1529.2	2999.9	6945.5	10850.0	7093.5	3242.5	1758.1	1271.6	1225.6
70°	474.1	482.8	561.2	1009.1	2985.0	6966.6	3420.5	1169.6	643.3	521.3	513.9
72.5°	347.1	352.1	375.8	447.9	918.3	2860.6	1124.8	496.5	377.0	337.2	333.5
75°	272.5	275.0	292.4	329.7	428.0	792.6	467.8	340.9	287.4	258.8	256.3
77.5°	207.8	214.0	226.5	251.3	287.4	375.8	309.8	255.1	221.5	197.8	194.1
80°	143.1	150.6	174.2	184.2	192.9	243.9	211.5	192.9	173.0	144.3	135.6
82.5°	88.3	93.3	117.0	125.7	121.9	136.9	135.6	138.1	123.2	89.6	83.4
85°	46.0	48.5	63.5	65.9	61.0	56.0	69.7	80.9	75.9	51.0	49.8
87.5°	10.0	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)