

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: P452540

Luminaire Tested: **GALN-SA3C-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452540
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-SA3C-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19947 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

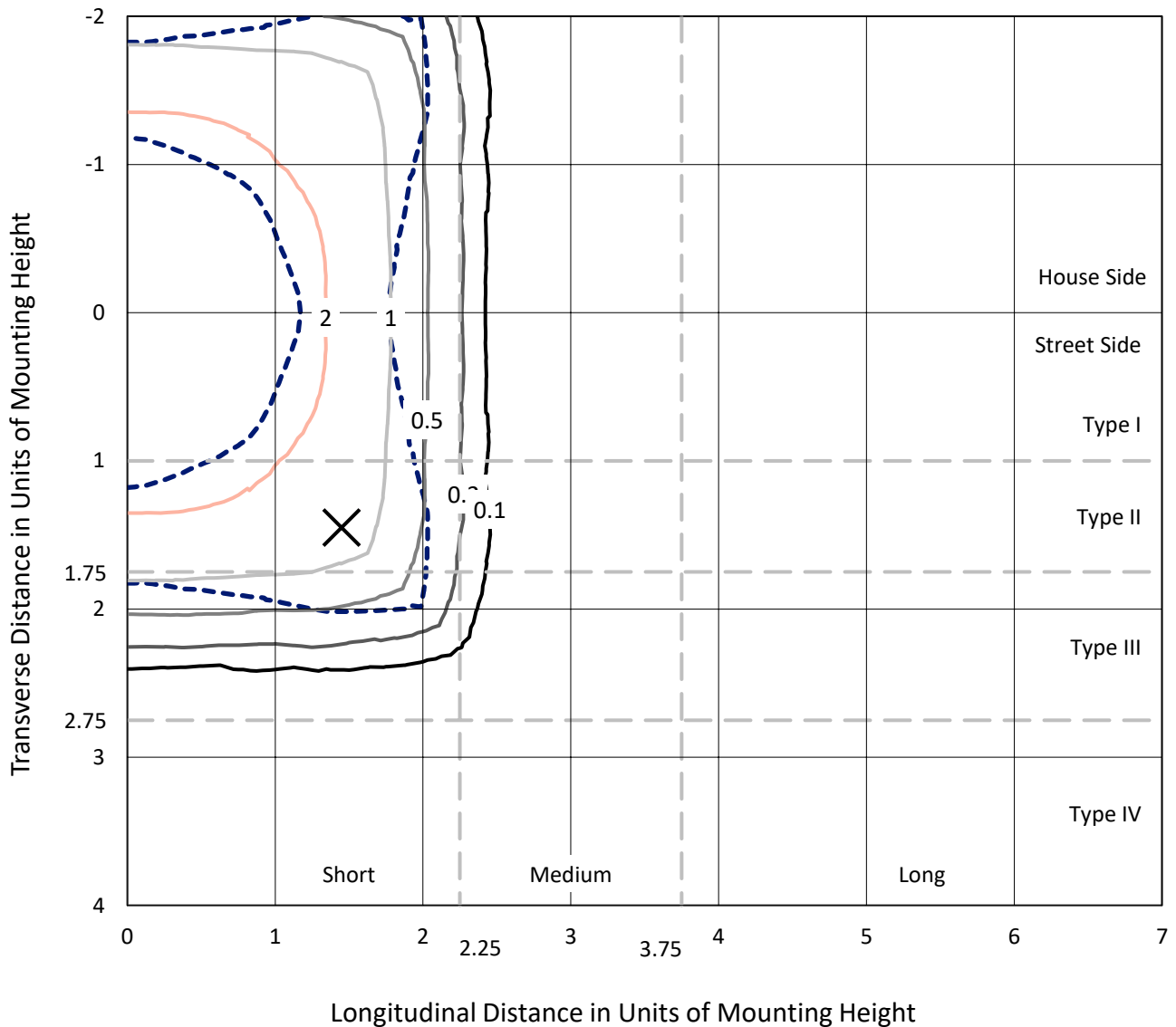
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

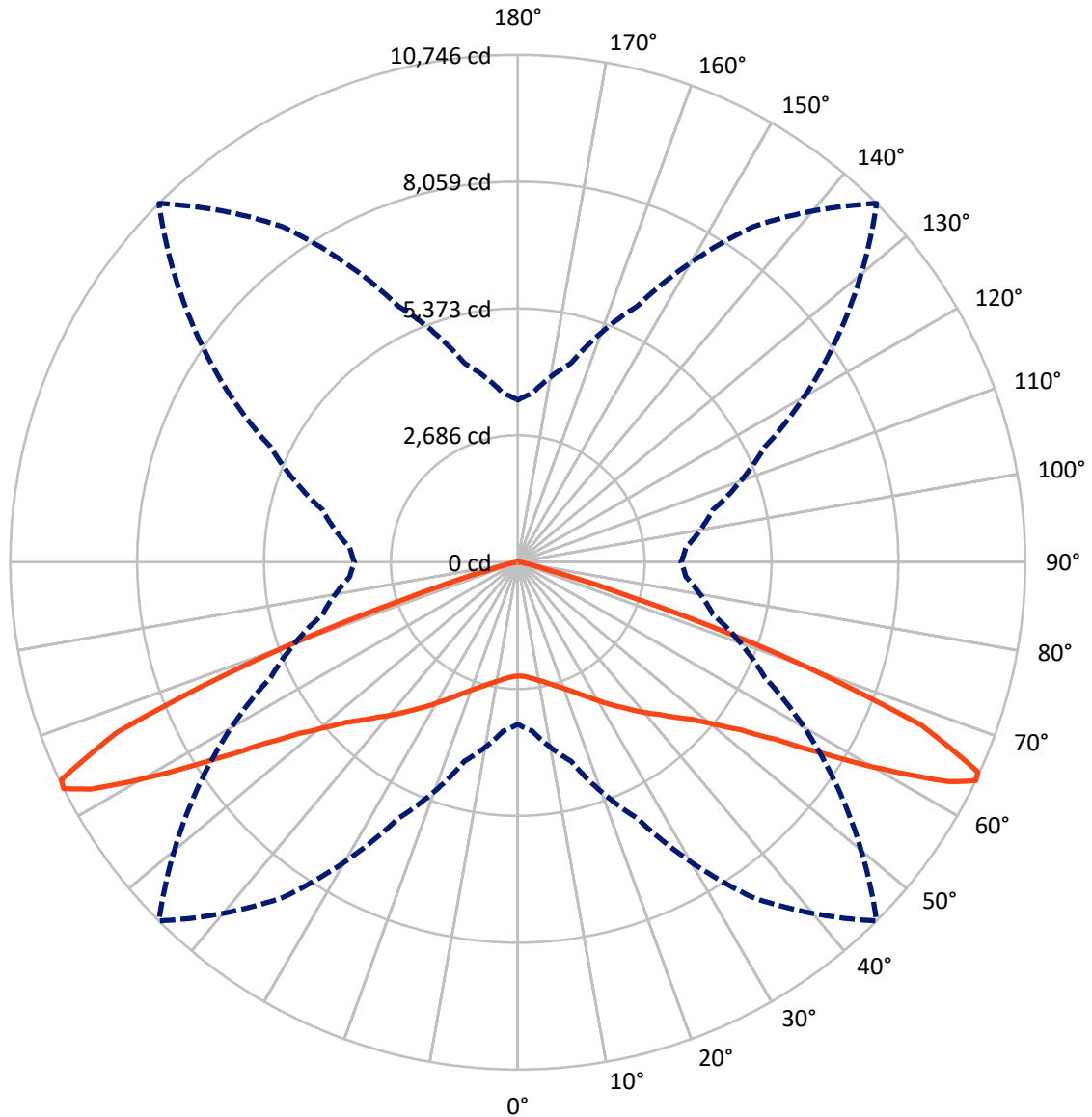
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	9973.5	0.0	9973.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9973.5	0.0	9973.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19947.0	0.0	19947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	1.2
10°-20°	764.0	3.8
20°-30°	1443.8	7.2
30°-40°	2391.1	12.0
40°-50°	3732.8	18.7
50°-60°	5770.9	28.9
60°-70°	4976.1	24.9
70°-80°	563.9	2.8
80°-90°	67.6	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°	19947.0	100.0
0°-180°	19947.0	100.0

Coefficient of Utilization



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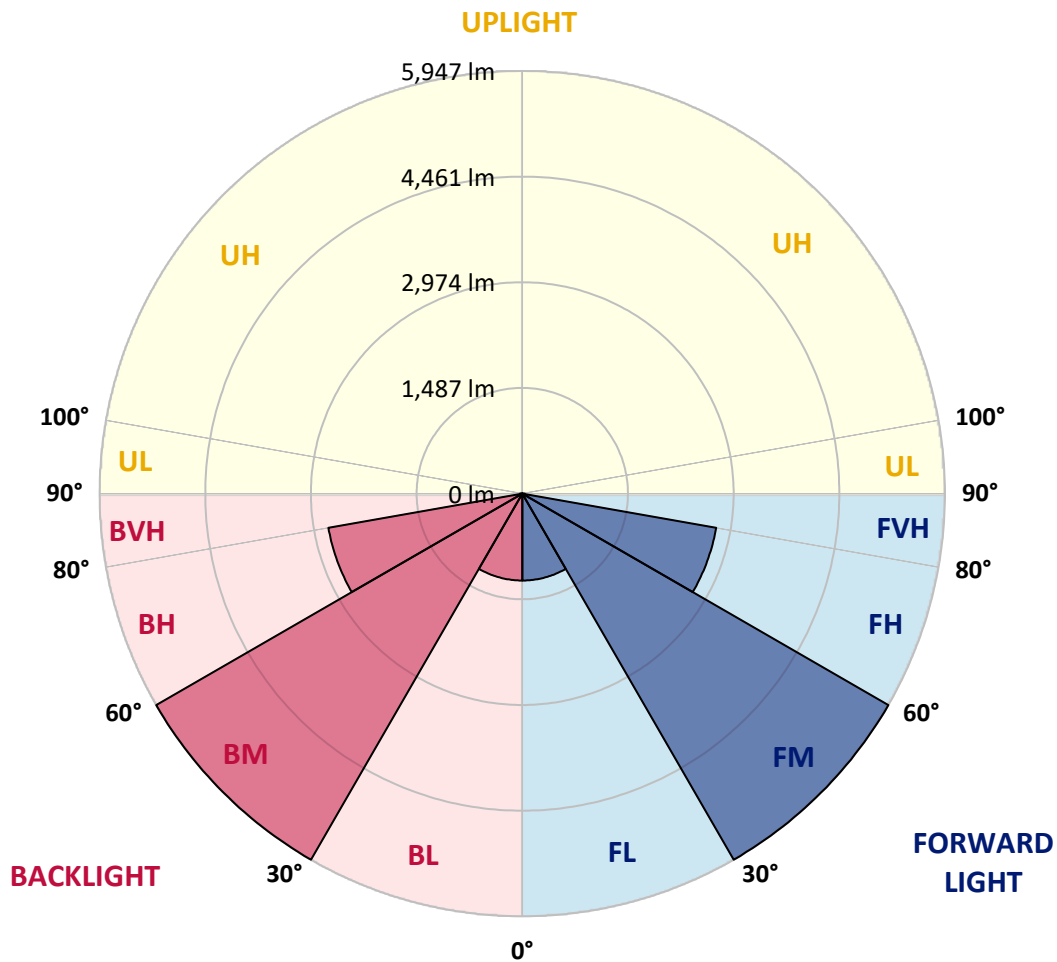
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.3	6.1			
FM (30°-60°)	5947.4	29.8			
FH (60°-80°)	2770.0	13.9			G2/5000
FVH (80°-90°)	33.8	0.2			G1/100
BL (0°-30°)	1222.3	6.1	B3/2500		
BM (30°-60°)	5947.4	29.8	B4/8500		
BH (60°-80°)	2770.0	13.9	B4/5000		G2/5000
BVH (80°-90°)	33.8	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°	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9
2.5°	2420.4	2425.7	2421.5	2420.4	2419.4	2419.4	2419.4	2420.4	2424.7	2427.8	2425.7
5°	2451.1	2455.3	2453.2	2452.1	2451.1	2452.1	2450.0	2449.0	2452.1	2452.1	2451.1
7.5°	2489.1	2494.4	2492.3	2494.4	2495.5	2496.5	2491.2	2487.0	2485.9	2489.1	2487.0
10°	2540.9	2545.1	2546.2	2547.2	2549.3	2548.3	2541.9	2534.5	2533.5	2532.4	2531.4
12.5°	2599.0	2602.2	2603.2	2607.4	2610.6	2611.7	2604.3	2597.9	2587.4	2589.5	2585.3
15°	2664.5	2670.8	2669.8	2676.1	2684.6	2686.7	2679.3	2668.7	2659.2	2653.9	2650.8
17.5°	2744.8	2749.0	2746.9	2753.2	2763.8	2769.1	2762.7	2749.0	2739.5	2727.9	2721.5
20°	2839.9	2847.3	2849.4	2849.4	2858.9	2864.2	2854.7	2850.4	2835.6	2827.2	2821.9
22.5°	2947.6	2950.8	2957.1	2963.5	2973.0	2970.9	2967.7	2961.4	2947.6	2940.2	2931.8
25°	3069.1	3072.3	3088.1	3101.9	3105.1	3102.9	3098.7	3095.5	3082.9	3066.0	3059.6
27.5°	3210.7	3217.0	3238.2	3250.8	3250.8	3251.9	3243.5	3254.0	3226.5	3206.5	3204.4
30°	3388.2	3392.4	3410.4	3423.1	3416.7	3411.4	3409.3	3419.9	3390.3	3354.4	3345.9
32.5°	3563.6	3578.4	3594.2	3621.7	3599.5	3590.0	3587.9	3595.3	3561.5	3521.3	3509.7
35°	3751.6	3762.2	3791.8	3815.0	3794.9	3772.8	3782.3	3805.5	3765.4	3711.5	3709.4
37.5°	3959.8	3969.3	4007.3	4031.6	4016.8	3978.8	3994.6	4022.1	3981.9	3915.4	3901.7
40°	4176.3	4196.4	4244.0	4269.3	4245.0	4194.3	4223.9	4253.5	4217.5	4140.4	4109.8
42.5°	4419.3	4451.0	4519.7	4532.4	4485.9	4417.2	4469.0	4516.5	4491.2	4402.4	4390.8
45°	4703.5	4722.5	4807.1	4834.5	4770.1	4684.5	4749.0	4835.6	4816.6	4714.1	4691.9
47.5°	5021.5	5039.5	5127.2	5168.4	5087.0	4971.9	5088.1	5201.1	5189.5	5079.6	5069.1
50°	5397.7	5401.9	5523.4	5569.9	5488.5	5389.2	5492.7	5633.3	5586.8	5446.3	5444.1
52.5°	5809.7	5815.0	5968.2	6058.0	6012.5	5900.5	6023.1	6108.7	5990.3	5806.5	5792.8
55°	6166.8	6193.2	6402.4	6641.2	6703.5	6622.1	6659.1	6619.0	6327.4	6069.6	6029.4
57.5°	6312.6	6364.3	6682.4	7128.2	7533.9	7654.3	7369.1	6986.6	6461.5	6097.1	6058.0
60°	5956.5	6012.5	6505.9	7352.2	8387.5	8910.5	8108.6	7049.0	6156.2	5643.8	5582.5
62.5°	4770.1	4785.9	5511.8	6825.0	8885.2	10239.6	8420.3	6517.5	5267.7	4571.5	4547.2
64°	3432.6	3595.3	4364.4	5984.0	8667.5	10745.6	8240.7	5772.7	4278.8	3574.1	3460.0
65°	2567.3	2611.7	3518.1	5110.3	8284.0	10707.6	7892.0	5060.6	3543.5	2735.3	2608.5
67.5°	969.9	975.1	1298.4	2547.2	5897.4	9212.7	6023.1	2753.2	1492.8	1079.7	1040.7
70°	402.5	409.9	476.5	856.8	2534.5	5915.3	2904.3	993.1	546.2	442.7	436.3
72.5°	294.8	299.0	319.1	380.3	779.7	2428.9	955.1	421.5	320.1	286.3	283.1
75°	231.4	233.5	248.3	280.0	363.4	673.0	397.2	289.5	244.1	219.8	217.6
77.5°	176.4	181.7	192.3	213.4	244.1	319.1	263.1	216.6	188.1	168.0	164.8
80°	121.5	127.8	147.9	156.4	163.8	207.1	179.6	163.8	146.9	122.6	115.2
82.5°	75.0	79.2	99.3	106.7	103.5	116.2	115.2	117.3	104.6	76.1	70.8
85°	39.1	41.2	53.9	56.0	51.8	47.5	59.2	68.7	64.4	43.3	42.3
87.5°	8.5	9.5	11.6	10.6	11.6	11.6	14.8	22.2	23.2	14.8	13.7
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)