

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: P530327

Luminaire Tested: **GALN-SA5C-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21130 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

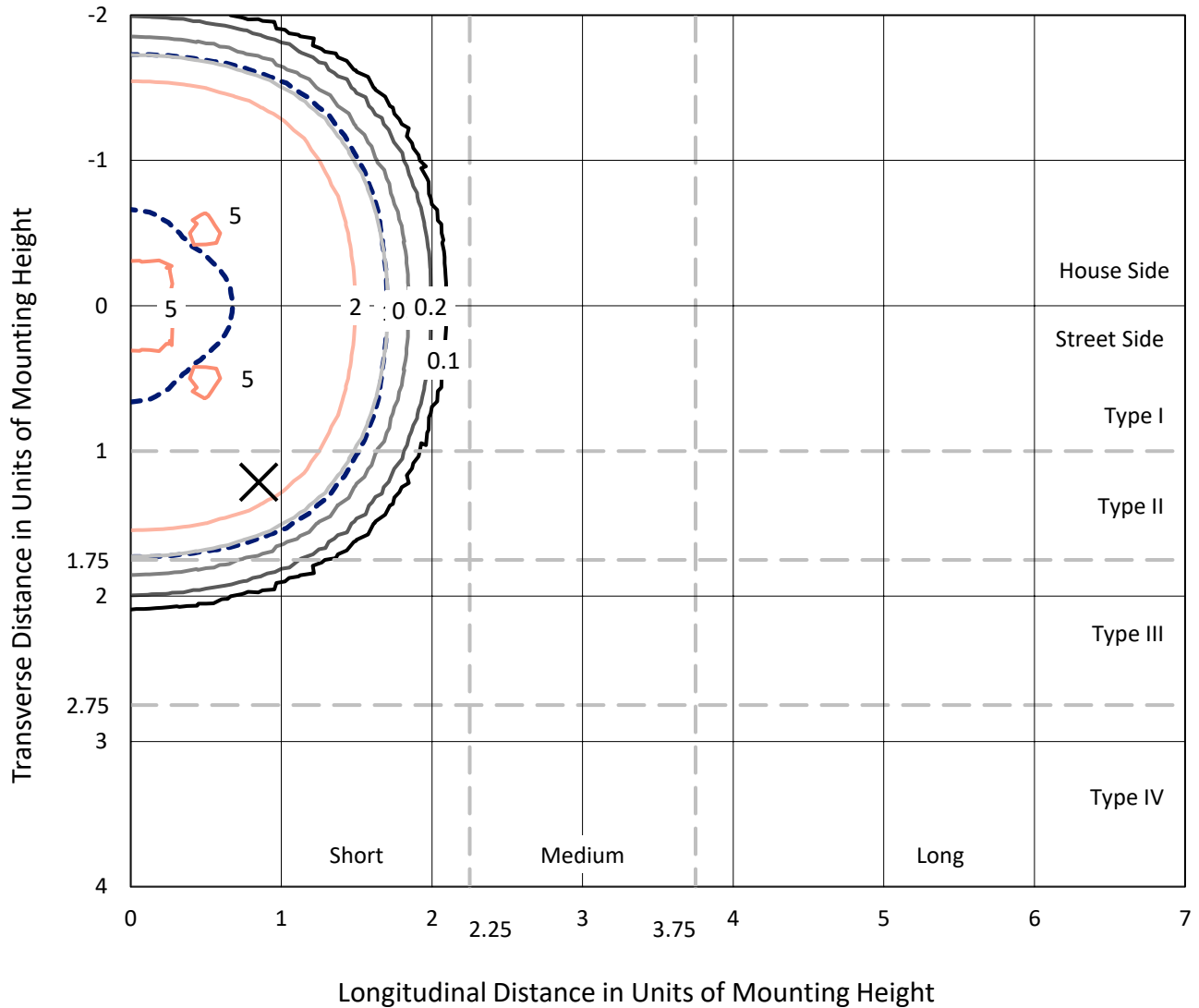
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

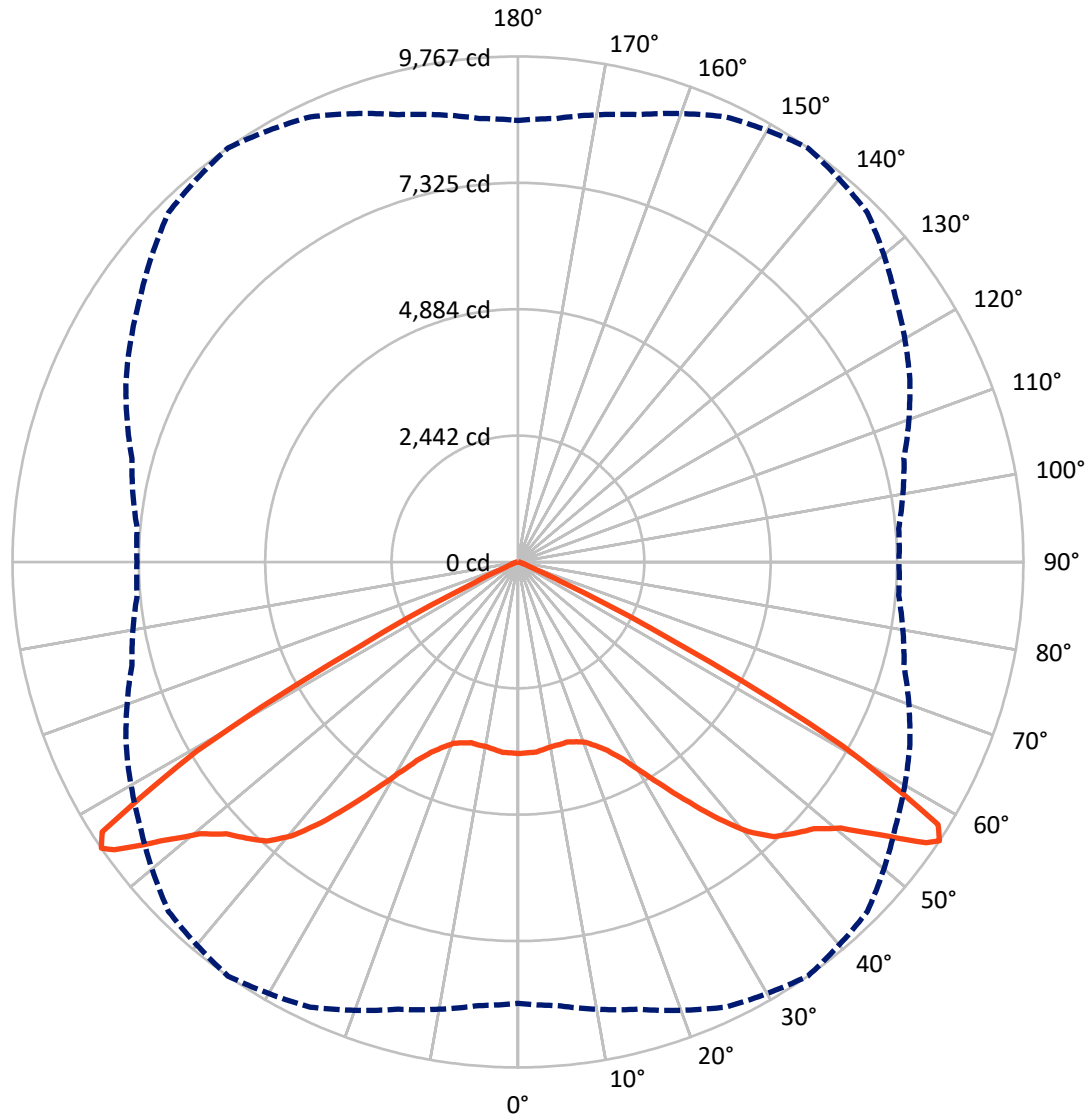
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10565.0	0.0	10565.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10565.0	0.0	10565.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21130.0	0.0	21130.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.0	1.6
10°-20°	1015.9	4.8
20°-30°	1839.7	8.7
30°-40°	3411.4	16.1
40°-50°	5599.6	26.5
50°-60°	7213.9	34.1
60°-70°	1589.9	7.5
70°-80°	92.2	0.4
80°-90°	19.4	0.1
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°	21130.0	100.0
0°-180°	21130.0	100.0

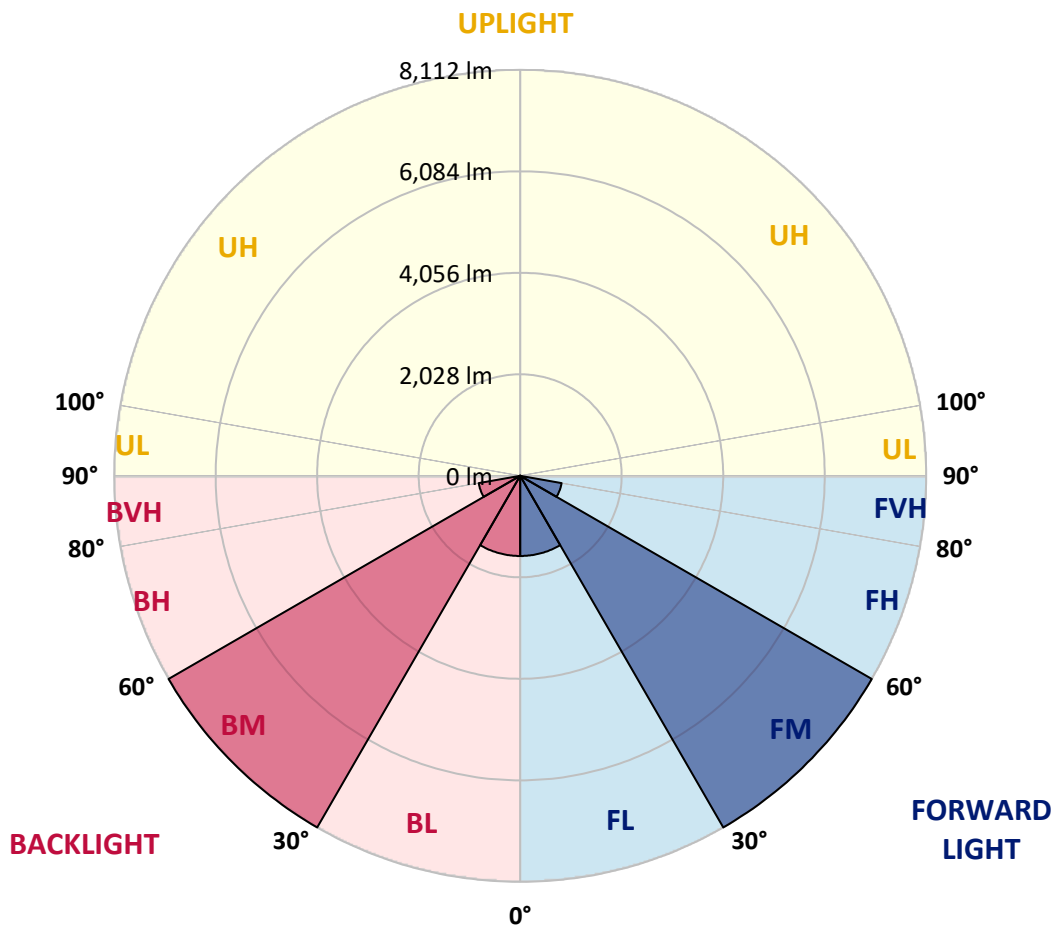


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.8	7.6			
FM (30°-60°)	8112.5	38.4			
FH (60°-80°)	841.1	4.0			G1/1800
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	1601.8	7.6	B3/2500		
BM (30°-60°)	8112.5	38.4	B4/8500		
BH (60°-80°)	841.1	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4
2.5°	3710.1	3710.1	3713.9	3717.7	3690.9	3679.5	3683.3	3675.6	3671.8	3683.3	3683.3
5°	3698.6	3698.6	3687.1	3690.9	3690.9	3656.5	3656.5	3664.1	3664.1	3641.2	3633.5
7.5°	3668.0	3660.3	3645.0	3664.1	3652.7	3652.7	3625.9	3606.7	3599.1	3614.4	3599.1
10°	3602.9	3606.7	3622.0	3629.7	3622.0	3645.0	3599.1	3572.3	3545.5	3534.0	3534.0
12.5°	3572.3	3595.2	3572.3	3591.4	3618.2	3599.1	3572.3	3553.1	3514.8	3499.5	3499.5
15°	3568.4	3583.7	3591.4	3618.2	3606.7	3614.4	3560.8	3537.8	3480.4	3453.6	3442.1
17.5°	3564.6	3583.7	3595.2	3645.0	3652.7	3656.5	3614.4	3545.5	3495.7	3468.9	3442.1
20°	3606.7	3614.4	3637.3	3687.1	3717.7	3771.3	3694.8	3622.0	3514.8	3484.2	3472.7
22.5°	3660.3	3698.6	3721.6	3775.2	3855.6	3901.5	3802.0	3710.1	3599.1	3560.8	3514.8
25°	3832.6	3825.0	3863.2	3974.3	4039.4	4073.8	3993.4	3859.4	3713.9	3668.0	3675.6
27.5°	4047.0	4054.7	4089.1	4211.7	4307.4	4361.0	4265.3	4089.1	3947.5	3870.9	3863.2
30°	4326.5	4318.9	4357.2	4521.8	4694.1	4774.5	4606.0	4399.3	4261.4	4161.9	4184.9
32.5°	4621.3	4625.2	4732.4	4881.7	5161.2	5318.2	5046.3	4793.6	4586.9	4518.0	4483.5
35°	5057.8	5077.0	5161.2	5390.9	5701.1	5904.0	5605.3	5302.9	5065.5	4939.1	4954.4
37.5°	5597.7	5578.5	5720.2	5969.1	6294.5	6443.8	6191.1	5846.5	5605.3	5521.1	5574.7
40°	6172.0	6191.1	6263.9	6489.8	6853.5	6953.1	6577.8	6390.2	6179.7	6137.5	6202.6
42.5°	6746.3	6734.8	6788.4	6991.4	7255.5	7186.6	6964.6	6853.5	6704.2	6620.0	6708.0
45°	7167.5	7148.3	7247.9	7385.7	7481.4	7351.3	7251.7	7213.4	7136.8	7045.0	7125.4
47.5°	7577.2	7561.8	7657.6	7695.8	7703.5	7531.2	7550.4	7619.3	7427.8	7236.4	7328.3
50°	7925.6	7898.8	8017.5	8101.7	8082.6	7806.9	7875.8	7806.9	7508.2	7282.3	7247.9
52.5°	8507.5	8519.0	8645.4	8798.5	8752.6	8522.9	8423.3	8109.4	7726.5	7523.6	7404.9
55°	8875.1	8817.7	9035.9	9522.2	9575.8	9338.4	8898.1	8434.8	7860.5	7611.6	7581.0
56°	8530.5	8603.3	8947.9	9491.5	9767.2	9549.0	8909.6	8354.4	7722.6	7385.7	7362.7
57.5°	7653.7	7615.4	8082.6	8825.3	9575.8	9483.9	8595.6	7780.1	7045.0	6665.9	6620.0
60°	4763.0	4874.0	5283.7	6202.6	7205.8	7251.7	6371.1	5670.4	4812.8	4475.8	4556.2
62.5°	1864.6	1768.9	2025.4	2710.8	3400.0	3553.1	3220.0	2676.3	2197.7	1864.6	1841.6
65°	432.7	421.2	474.8	654.7	915.1	1060.6	1007.0	723.6	532.2	505.4	467.1
67.5°	245.0	245.0	233.6	233.6	256.5	271.8	260.4	256.5	268.0	279.5	275.7
70°	172.3	168.5	160.8	164.6	157.0	157.0	168.5	187.6	202.9	202.9	206.8
72.5°	103.4	103.4	103.4	114.9	114.9	114.9	126.3	141.7	145.5	141.7	137.8
75°	45.9	45.9	53.6	65.1	72.7	76.6	88.1	95.7	103.4	95.7	88.1
77.5°	11.5	11.5	19.1	26.8	34.5	42.1	57.4	68.9	72.7	68.9	57.4
80°	3.8	3.8	7.7	19.1	34.5	42.1	57.4	61.3	65.1	57.4	45.9
82.5°	3.8	3.8	7.7	19.1	26.8	34.5	45.9	53.6	57.4	49.8	45.9
85°	0.0	3.8	7.7	15.3	23.0	30.6	30.6	23.0	19.1	11.5	15.3
87.5°	0.0	0.0	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)