

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: P650938

Luminaire Tested: **GALN-SA6C-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650938
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-SA6C-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 21041.8 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

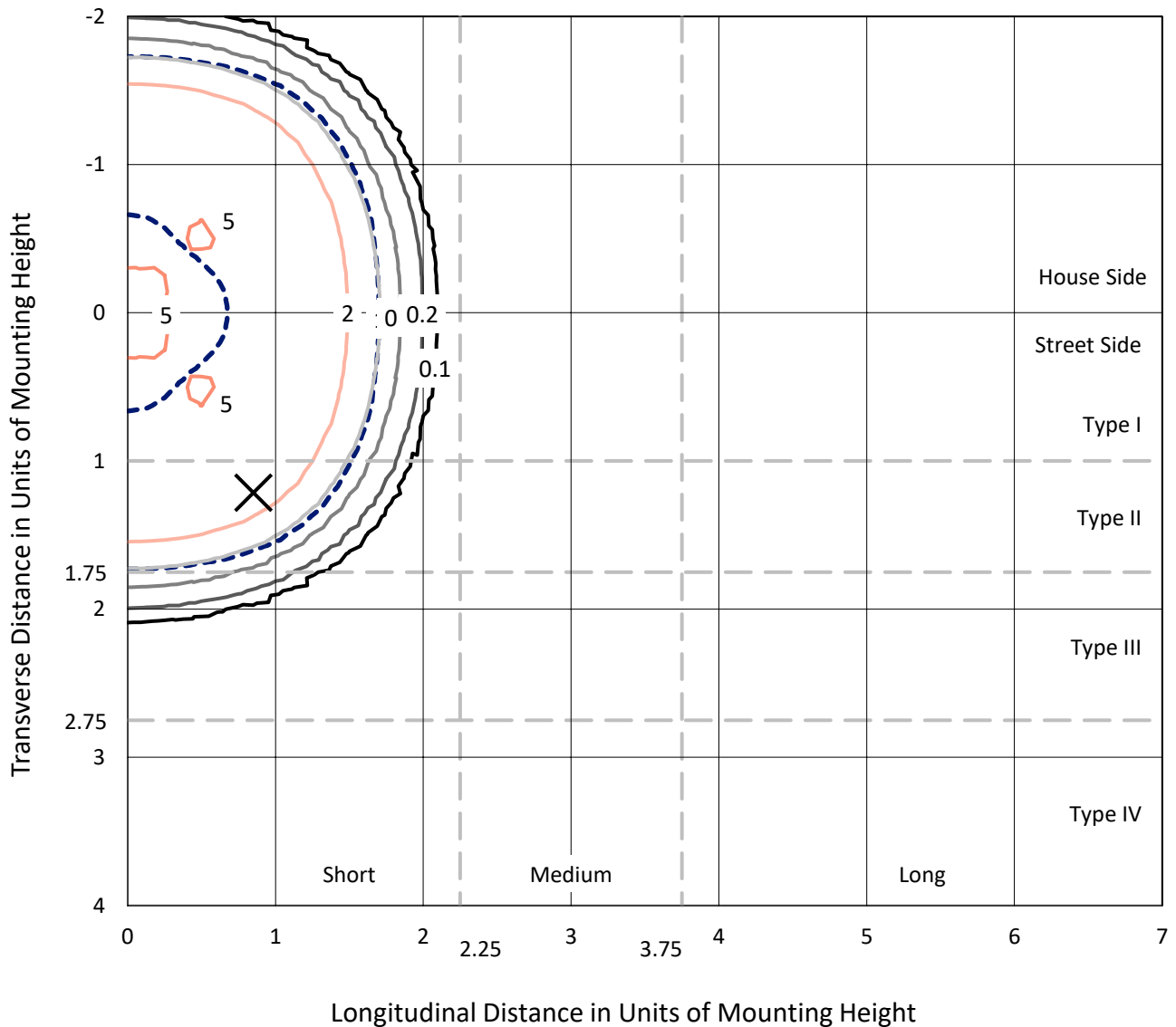
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

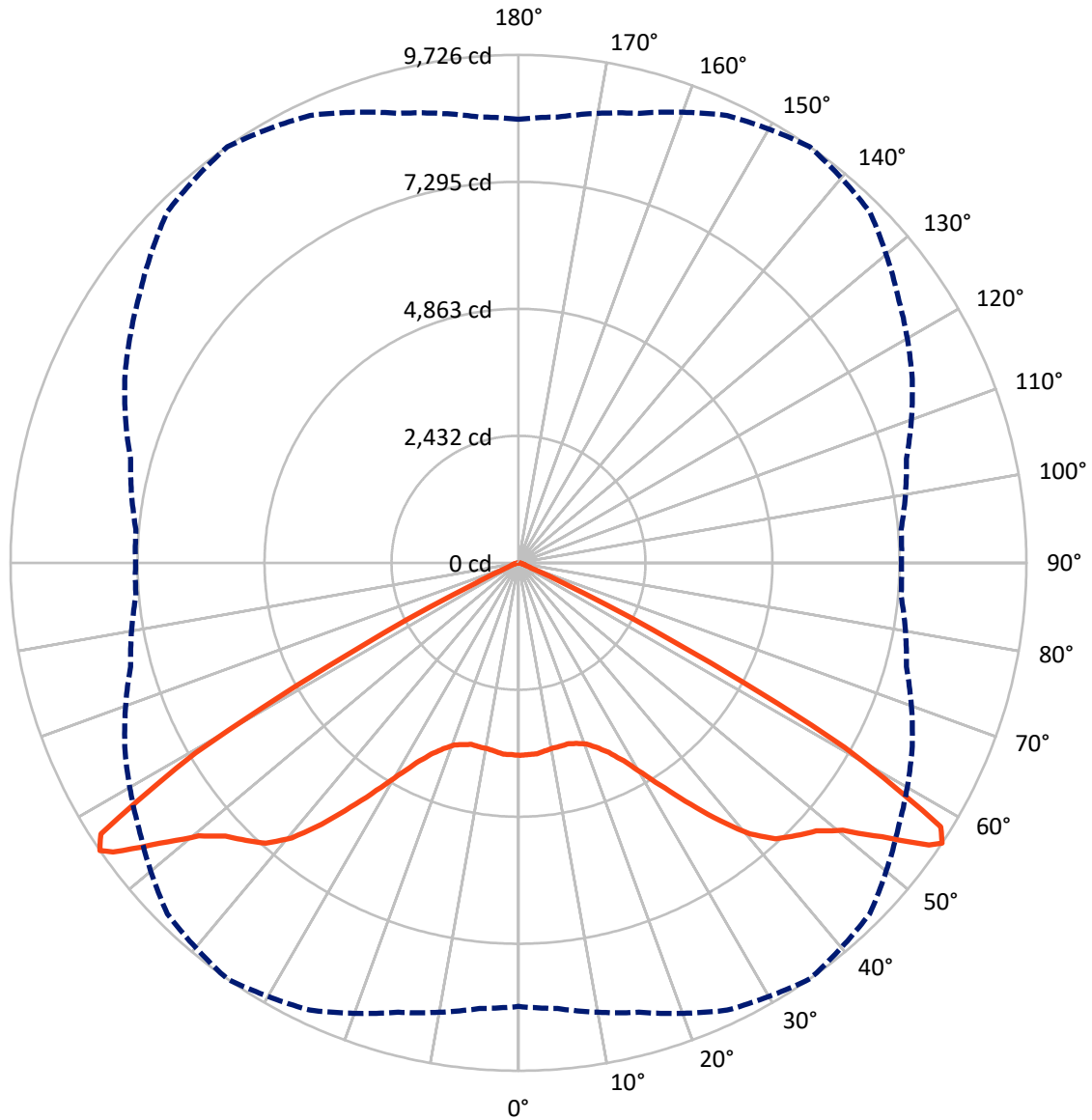
× Max cd
 - - - 1/2 Max cd



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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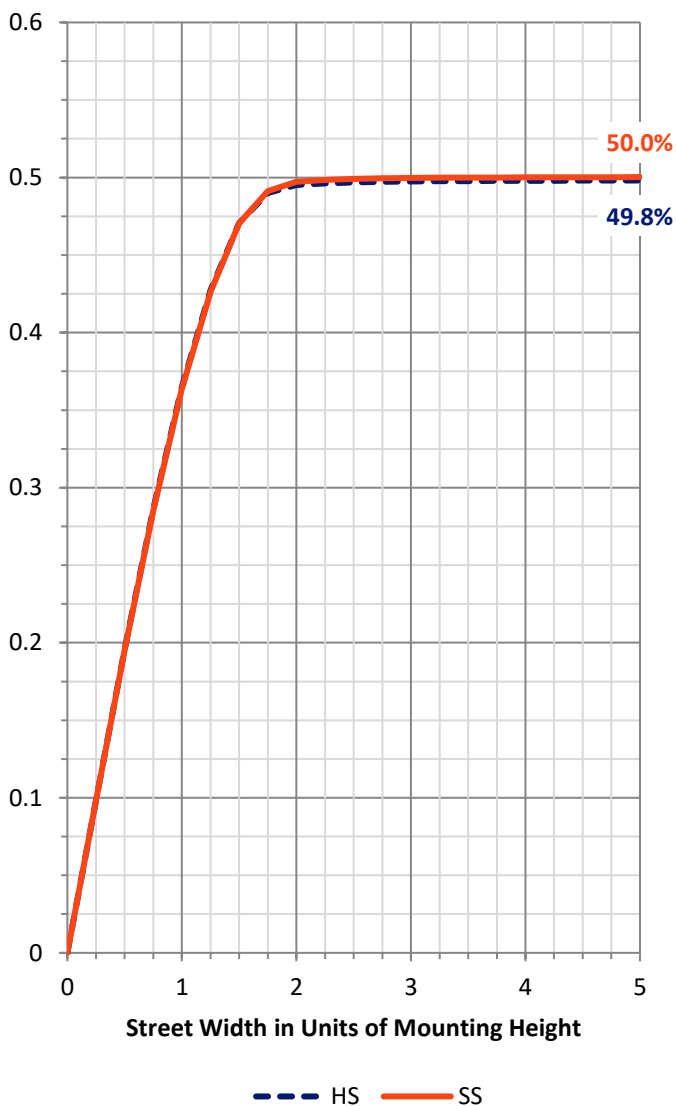
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10520.9	0.0	10520.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10520.9	0.0	10520.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	21041.8	0.0	21041.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.5	1.6
10°-20°	1011.7	4.8
20°-30°	1832.0	8.7
30°-40°	3397.2	16.1
40°-50°	5576.2	26.5
50°-60°	7183.8	34.1
60°-70°	1583.2	7.5
70°-80°	91.9	0.4
80°-90°	19.3	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°	21041.8	100.0
0°-180°	21041.8	100.0

Coefficient of Utilization



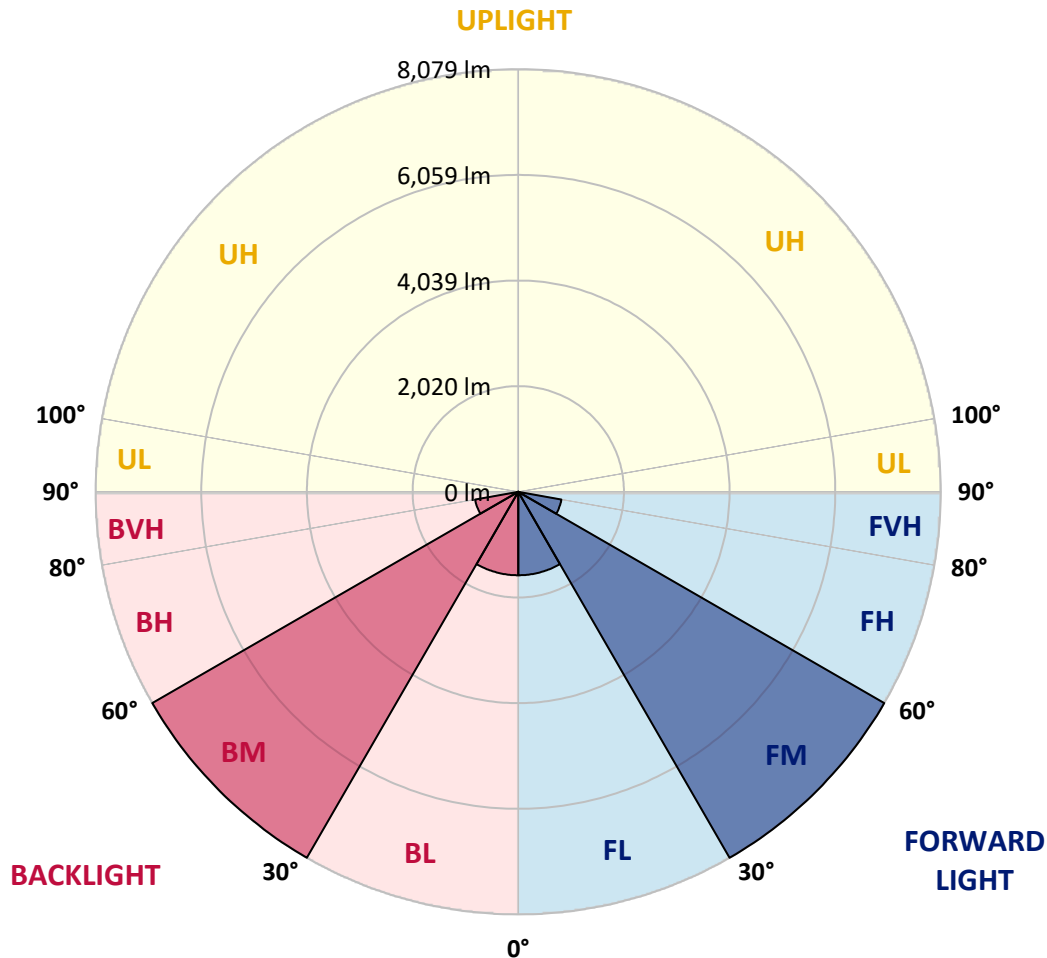
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.1	7.6			
FM (30°-60°)	8078.6	38.4			
FH (60°-80°)	837.5	4.0			G1/1800
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	1595.1	7.6	B3/2500		
BM (30°-60°)	8078.6	38.4	B4/8500		
BH (60°-80°)	837.5	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°	3686.9	3686.9	3686.9	3686.9	3686.9	3686.9	3686.9	3686.9	3686.9	3686.9	3686.9
2.5°	3694.6	3694.6	3698.4	3702.3	3675.5	3664.1	3667.9	3660.3	3656.5	3667.9	3667.9
5°	3683.2	3683.2	3671.7	3675.5	3675.5	3641.2	3641.2	3648.8	3648.8	3626.0	3618.3
7.5°	3652.6	3645.1	3629.8	3648.8	3637.4	3637.4	3610.7	3591.7	3584.0	3599.3	3584.0
10°	3587.9	3591.7	3606.9	3614.5	3606.9	3629.8	3584.0	3557.3	3530.7	3519.2	3519.2
12.5°	3557.3	3580.2	3557.3	3576.4	3603.1	3584.0	3557.3	3538.3	3500.2	3484.9	3484.9
15°	3553.6	3568.8	3576.4	3603.1	3591.7	3599.3	3545.9	3523.0	3465.8	3439.2	3427.7
17.5°	3549.7	3568.8	3580.2	3629.8	3637.4	3641.2	3599.3	3530.7	3481.1	3454.4	3427.7
20°	3591.7	3599.3	3622.2	3671.7	3702.3	3755.6	3679.4	3606.9	3500.2	3469.6	3458.2
22.5°	3645.1	3683.2	3706.0	3759.4	3839.5	3885.3	3786.1	3694.6	3584.0	3545.9	3500.2
25°	3816.6	3809.0	3847.2	3957.7	4022.5	4056.8	3976.8	3843.3	3698.4	3652.6	3660.3
27.5°	4030.2	4037.7	4072.0	4194.1	4289.4	4342.8	4247.5	4072.0	3931.0	3854.7	3847.2
30°	4308.4	4300.9	4339.0	4502.9	4674.5	4754.6	4586.8	4380.9	4243.7	4144.5	4167.4
32.5°	4602.0	4605.9	4712.6	4861.3	5139.7	5295.9	5025.3	4773.6	4567.7	4499.1	4464.8
35°	5036.7	5055.8	5139.7	5368.4	5677.3	5879.3	5582.0	5280.7	5044.3	4918.5	4933.7
37.5°	5574.3	5555.2	5696.3	5944.2	6268.2	6416.9	6165.3	5822.2	5582.0	5498.0	5551.4
40°	6146.2	6165.3	6237.8	6462.7	6824.9	6924.0	6550.4	6363.6	6153.8	6111.9	6176.7
42.5°	6718.2	6706.7	6760.1	6962.1	7225.3	7156.7	6935.5	6824.9	6676.2	6592.3	6680.1
45°	7137.6	7118.5	7217.6	7354.9	7450.3	7320.6	7221.4	7183.3	7107.0	7015.5	7095.6
47.5°	7545.5	7530.3	7625.6	7663.7	7671.3	7499.8	7518.9	7587.5	7396.8	7206.2	7297.7
50°	7892.5	7865.8	7984.0	8067.9	8048.8	7774.3	7842.9	7774.3	7476.9	7251.9	7217.6
52.5°	8472.1	8483.5	8609.3	8761.8	8716.0	8487.3	8388.1	8075.5	7694.2	7492.1	7374.0
55°	8838.1	8780.9	8998.2	9482.4	9535.8	9299.4	8860.9	8399.6	7827.7	7579.8	7549.3
56°	8494.9	8567.4	8910.5	9451.9	9726.4	9509.1	8872.4	8319.5	7690.4	7354.9	7332.0
57.5°	7621.8	7583.6	8048.8	8788.5	9535.8	9444.3	8559.8	7747.6	7015.5	6638.1	6592.3
60°	4743.2	4853.7	5261.6	6176.7	7175.7	7221.4	6344.5	5646.7	4792.7	4457.1	4537.2
62.5°	1856.8	1761.5	2017.0	2699.4	3385.8	3538.3	3206.6	2665.1	2188.5	1856.8	1834.0
65°	430.8	419.4	472.8	652.0	911.2	1056.1	1002.8	720.7	530.0	503.3	465.2
67.5°	244.1	244.1	232.6	232.6	255.5	270.7	259.3	255.5	266.9	278.4	274.5
70°	171.6	167.8	160.1	163.9	156.3	156.3	167.8	186.8	202.1	202.1	205.9
72.5°	102.9	102.9	102.9	114.4	114.4	114.4	125.8	141.0	144.9	141.0	137.3
75°	45.8	45.8	53.4	64.8	72.4	76.3	87.7	95.3	102.9	95.3	87.7
77.5°	11.4	11.4	19.1	26.7	34.3	42.0	57.2	68.6	72.4	68.6	57.2
80°	3.8	3.8	7.7	19.1	34.3	42.0	57.2	61.0	64.8	57.2	45.8
82.5°	3.8	3.8	7.7	19.1	26.7	34.3	45.8	53.4	57.2	49.5	45.8
85°	0.0	3.8	7.7	15.2	22.9	30.5	30.5	22.9	19.1	11.4	15.2
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)