

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: P532151

Luminaire Tested: **GALN-SA7C-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23262 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

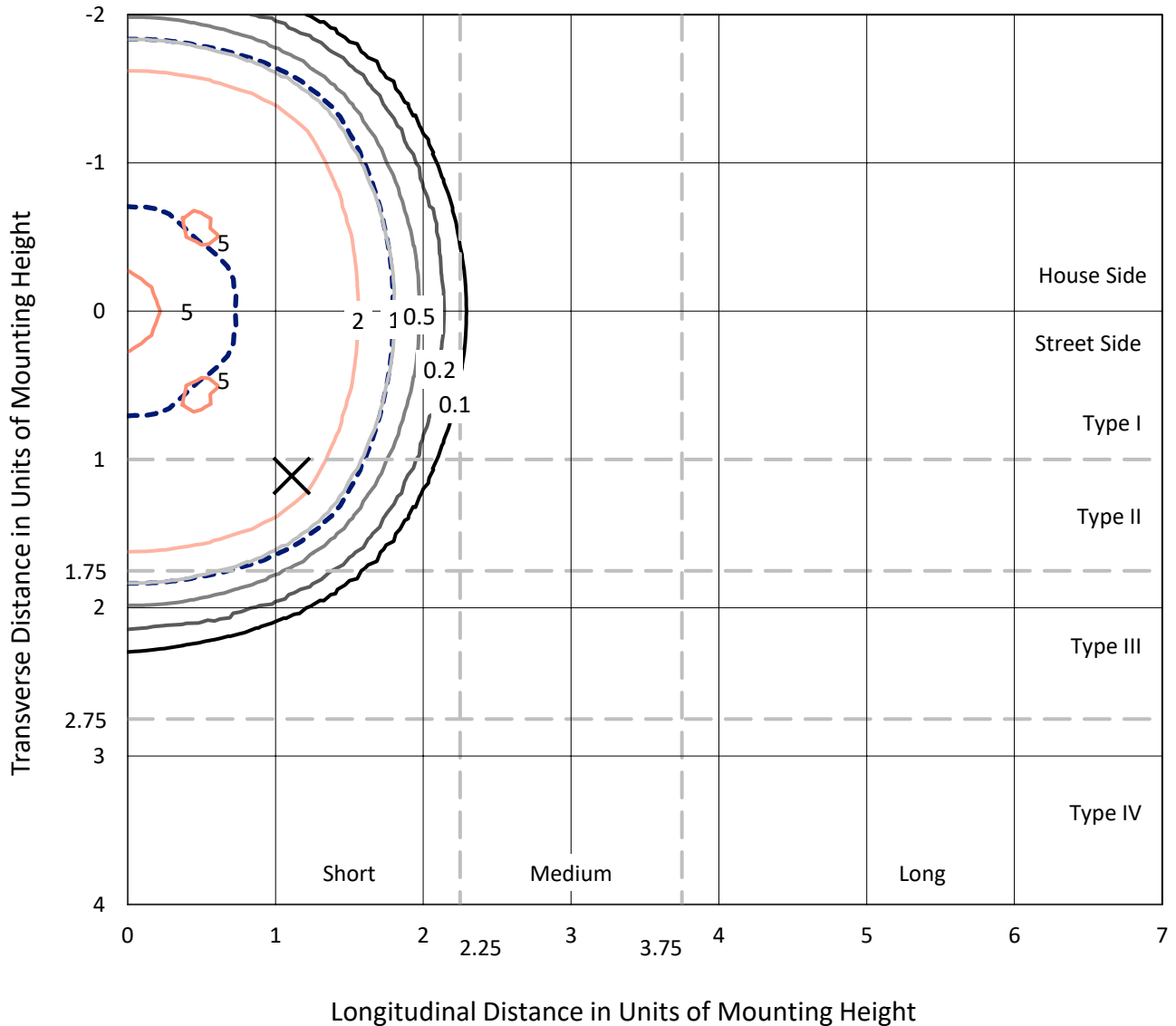
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

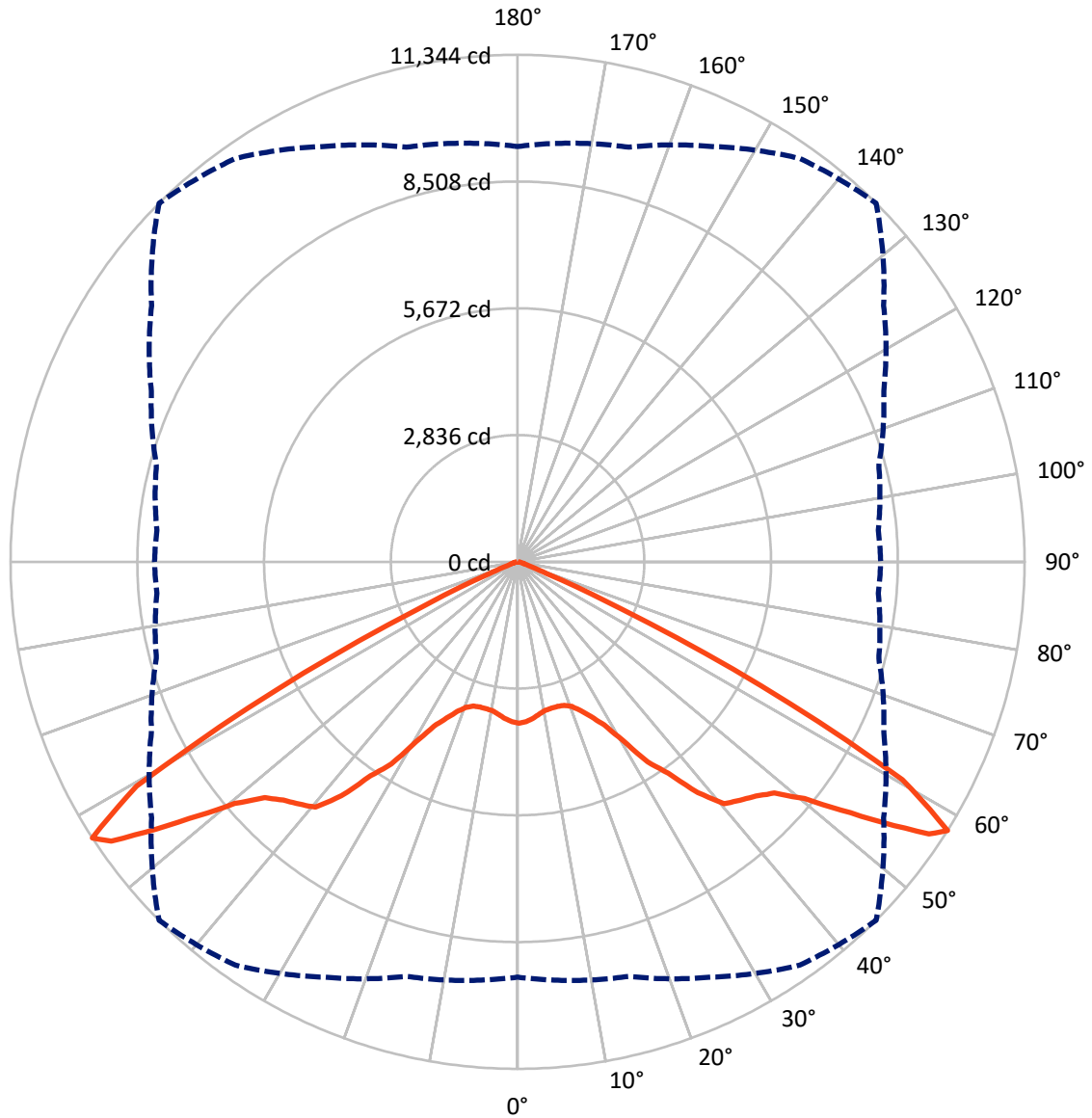
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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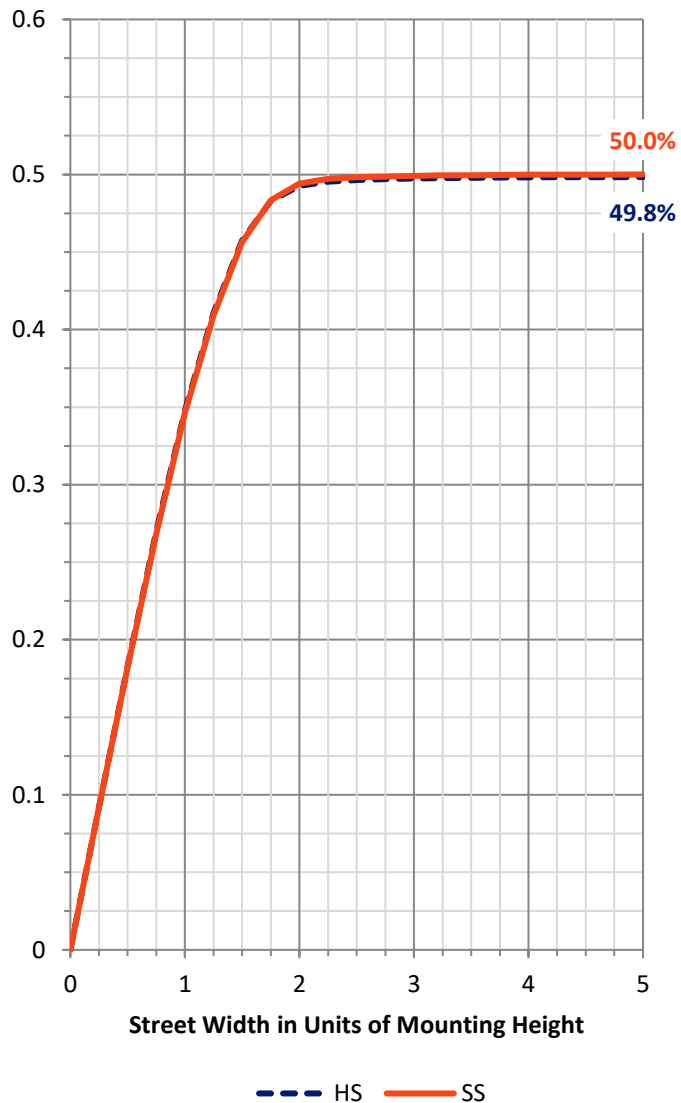
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11631.0	0.0	11631.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11631.0	0.0	11631.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23262.0	0.0	23262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.6	1.4
10°-20°	958.4	4.1
20°-30°	1769.1	7.6
30°-40°	3479.1	15.0
40°-50°	5666.5	24.4
50°-60°	8081.2	34.7
60°-70°	2797.9	12.0
70°-80°	150.1	0.6
80°-90°	28.2	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°	23262.0	100.0
0°-180°	23262.0	100.0

Coefficient of Utilization



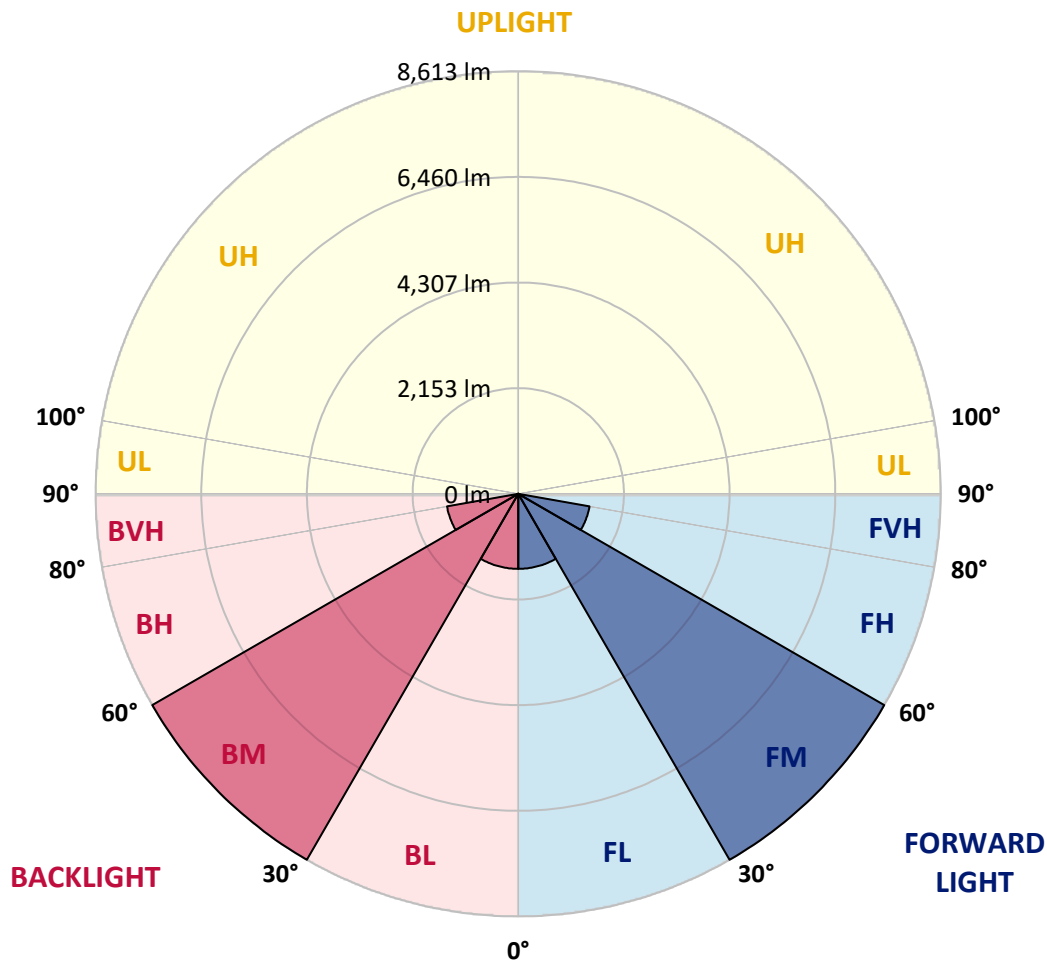
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1529.5	6.6			
FM	(30°-60°)	8613.4	37.0			
FH	(60°-80°)	1474.0	6.3			G1/1800
FVH	(80°-90°)	14.1	0.1			G1/100
BL	(0°-30°)	1529.5	6.6	B3/2500		
BM	(30°-60°)	8613.4	37.0	B5		
BH	(60°-80°)	1474.0	6.3	B3/2500		G1/1800
BVH	(80°-90°)	14.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3608.2	3608.2	3608.2	3608.2	3608.2	3608.2	3608.2	3608.2	3608.2	3608.2	3608.2
2.5°	3598.5	3617.9	3593.6	3583.9	3579.1	3579.1	3564.5	3564.5	3559.7	3564.5	3545.1
5°	3540.3	3559.7	3559.7	3554.8	3525.7	3520.9	3506.3	3496.6	3501.5	3482.1	3496.6
7.5°	3482.1	3496.6	3477.2	3472.4	3462.7	3443.3	3438.4	3394.8	3399.6	3399.6	3409.3
10°	3472.4	3467.5	3438.4	3414.2	3385.1	3380.2	3365.7	3356.0	3356.0	3351.1	3365.7
12.5°	3472.4	3448.1	3443.3	3389.9	3341.4	3360.8	3322.0	3297.8	3331.7	3341.4	3360.8
15°	3467.5	3491.8	3409.3	3385.1	3351.1	3356.0	3322.0	3297.8	3317.2	3326.9	3341.4
17.5°	3496.6	3482.1	3457.8	3409.3	3394.8	3375.4	3331.7	3312.3	3312.3	3336.6	3341.4
20°	3574.2	3535.4	3486.9	3462.7	3477.2	3453.0	3399.6	3326.9	3346.3	3365.7	3380.2
22.5°	3647.0	3617.9	3583.9	3569.4	3651.8	3613.0	3520.9	3438.4	3409.3	3443.3	3467.5
25°	3787.6	3787.6	3724.6	3744.0	3836.1	3841.0	3734.3	3588.8	3569.4	3583.9	3593.6
27.5°	4073.8	4088.3	4035.0	4054.4	4093.2	4127.1	4035.0	3913.7	3870.1	3865.2	3879.8
30°	4384.1	4413.2	4408.4	4490.8	4602.4	4621.8	4486.0	4287.1	4156.2	4131.9	4151.3
32.5°	4791.5	4806.1	4796.4	4893.4	5194.0	5334.7	4980.6	4699.4	4524.8	4568.4	4524.8
35°	5557.8	5543.2	5436.5	5455.9	5703.3	5805.1	5465.6	5286.2	5203.7	5291.0	5271.6
37.5°	6217.3	6164.0	6076.7	6202.8	6459.8	6552.0	6197.9	5882.7	5732.4	5877.8	5940.9
40°	6775.0	6639.2	6518.0	6644.1	6988.4	7114.5	6595.6	6338.6	6280.4	6387.1	6522.9
42.5°	7245.5	7158.2	6998.1	7007.8	7235.8	7294.0	6876.9	6726.5	6668.3	6838.1	6906.0
45°	7580.1	7497.6	7347.3	7337.6	7512.2	7473.4	7100.0	6998.1	7032.1	7143.6	7177.6
47.5°	7749.8	7793.5	7706.2	7730.4	7822.6	7730.4	7434.6	7434.6	7357.0	7424.9	7390.9
50°	8239.6	8103.9	8215.4	8215.4	8312.4	8322.1	8026.3	7919.6	7711.0	7594.6	7594.6
52.5°	8811.9	8821.6	8865.3	9025.3	9190.2	9330.8	8908.9	8453.0	8103.9	7953.5	7934.1
55°	9282.3	9379.3	9553.9	9854.6	10329.9	10523.9	9796.4	8981.7	8554.9	8322.1	8273.6
56°	9539.4	9447.2	9747.9	10160.1	10780.9	11033.1	9941.9	9088.3	8617.9	8356.0	8351.2
57.5°	9292.0	9393.9	9602.4	10252.3	11013.7	11343.5	9995.2	9039.8	8365.7	8099.0	8123.3
60°	7337.6	7434.6	7715.9	8443.3	9636.4	9893.4	8457.9	7454.0	6852.6	6469.5	6474.4
62.5°	4151.3	4224.1	4442.3	5116.4	5858.4	6105.8	5271.6	4602.4	4185.3	3971.9	3904.0
65°	1527.7	1498.6	1532.5	1876.8	2332.7	2541.2	2192.1	1852.6	1634.4	1556.8	1527.7
67.5°	572.3	528.6	494.7	528.6	664.4	703.2	645.0	538.3	504.4	518.9	528.6
70°	354.0	334.6	266.7	252.2	247.3	242.5	257.0	271.6	310.4	363.7	373.4
72.5°	247.3	232.8	189.1	179.4	169.7	164.9	189.1	208.5	242.5	281.3	286.1
75°	97.0	101.8	97.0	106.7	111.5	116.4	135.8	150.3	164.9	164.9	160.0
77.5°	19.4	19.4	29.1	38.8	48.5	63.0	92.1	106.7	111.5	106.7	92.1
80°	0.0	0.0	9.7	19.4	38.8	53.3	82.4	92.1	101.8	92.1	72.7
82.5°	0.0	0.0	9.7	24.2	38.8	48.5	77.6	97.0	111.5	101.8	77.6
85°	0.0	0.0	9.7	19.4	29.1	33.9	33.9	24.2	24.2	14.5	9.7
87.5°	0.0	0.0	0.0	0.0	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)