

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: P456050

Luminaire Tested: **GALN-SA7B-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41480 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

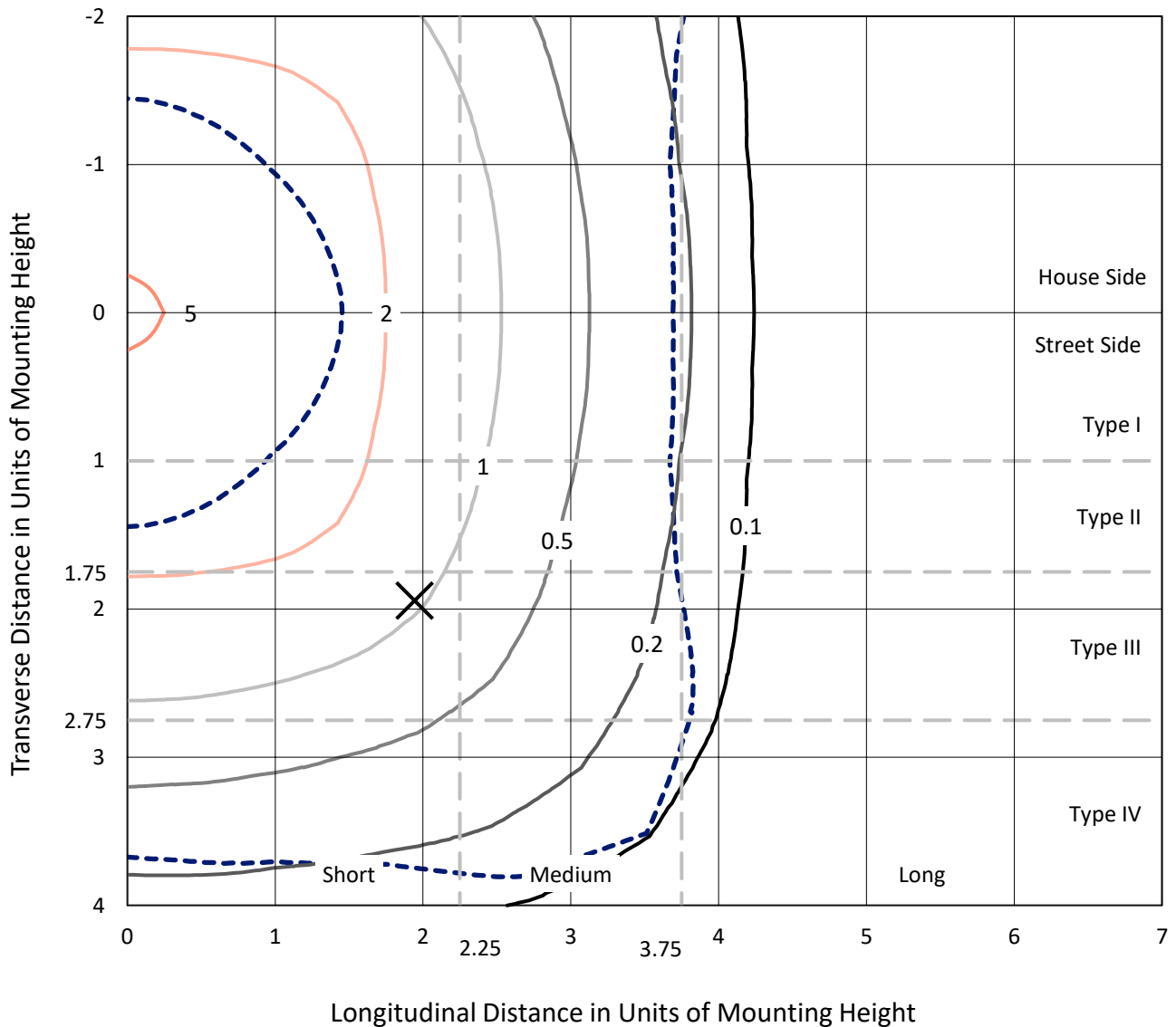
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456050
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Iso-Footcandle Lines of Horizontal Illumination

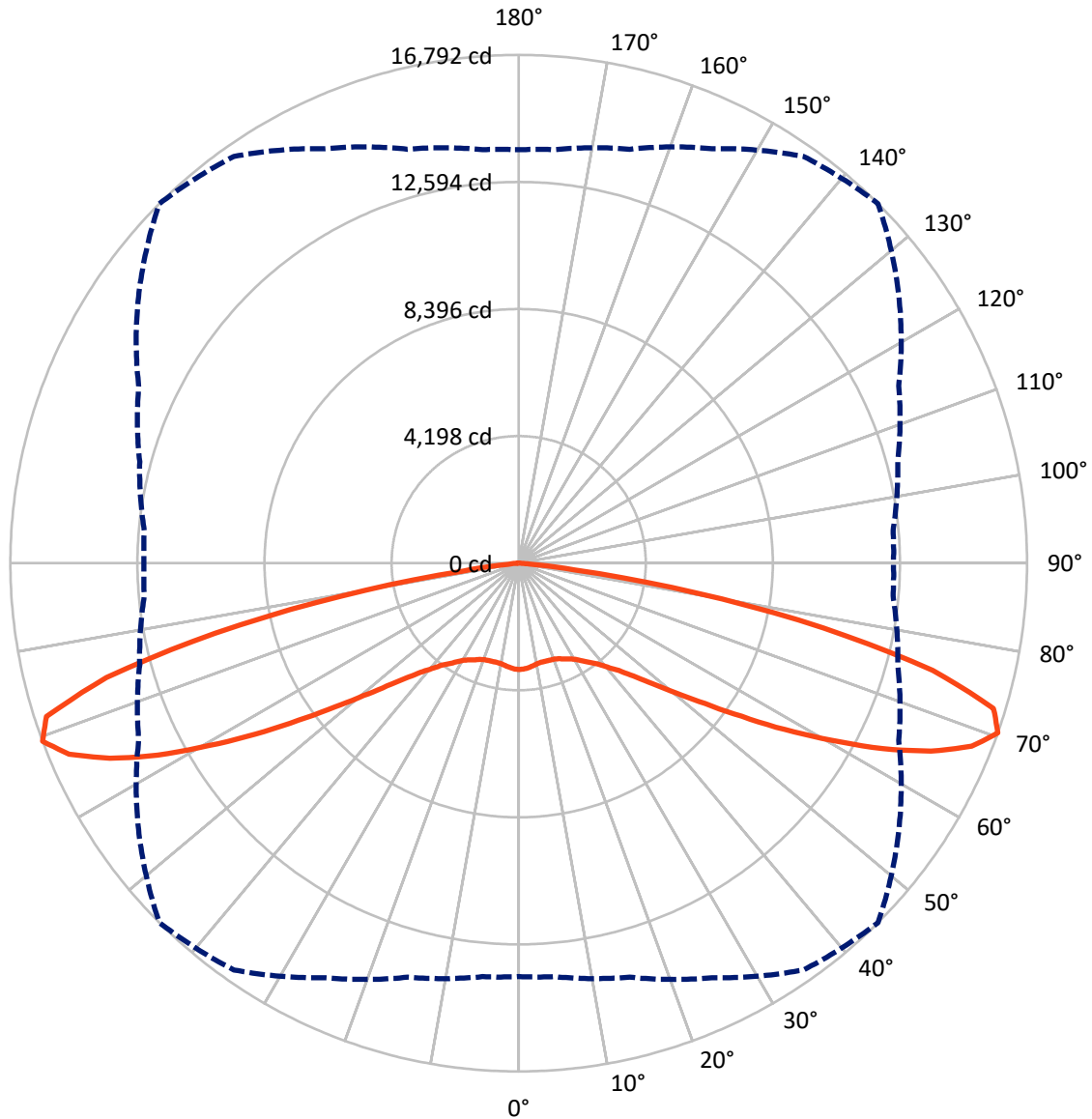
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

REPORT NUMBER: P456050
CATALOG NUMBER: GALN-SA7B-740-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20740.0	0.0	20740.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20740.0	0.0	20740.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41480.0	0.0	41480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	0.8
10°-20°	961.5	2.3
20°-30°	1638.1	3.9
30°-40°	2539.0	6.1
40°-50°	4273.6	10.3
50°-60°	7775.6	18.7
60°-70°	13163.9	31.7
70°-80°	10189.4	24.6
80°-90°	610.6	1.5
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°	41480.0	100.0
0°-180°	41480.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456050

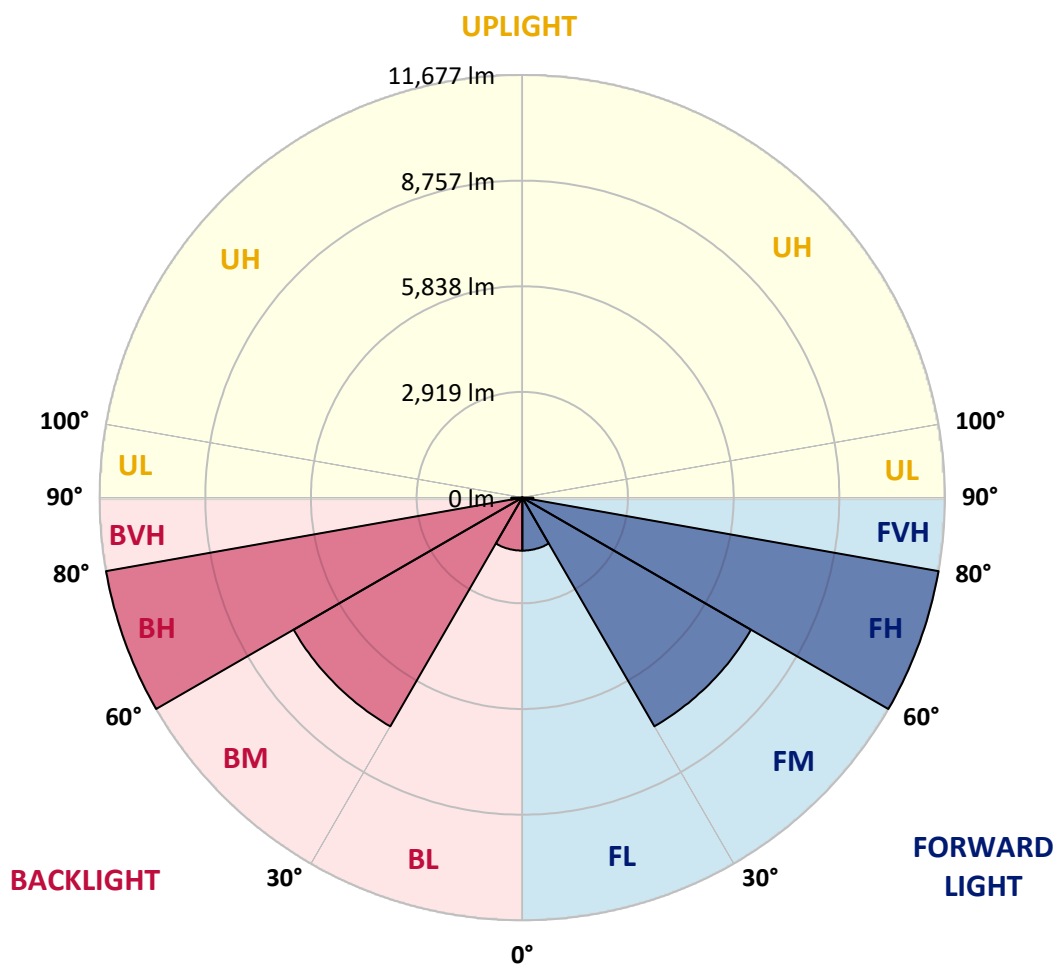
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.0	3.5			
FM (30°-60°)	7294.1	17.6			
FH (60°-80°)	11676.6	28.1			G4/12000
FVH (80°-90°)	305.3	0.7			G3/500
BL (0°-30°)	1464.0	3.5	B3/2500		
BM (30°-60°)	7294.1	17.6	B4/8500		
BH (60°-80°)	11676.6	28.1	B5		G4/12000
BVH (80°-90°)	305.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8
2.5°	3503.0	3505.2	3505.2	3500.8	3498.6	3498.6	3496.5	3496.5	3503.0	3505.2	3507.4
5°	3472.4	3472.4	3472.4	3470.2	3465.8	3465.8	3461.4	3461.4	3463.6	3470.2	3465.8
7.5°	3430.7	3435.1	3435.1	3426.4	3419.8	3419.8	3417.6	3419.8	3422.0	3428.5	3426.4
10°	3417.6	3419.8	3408.8	3393.5	3382.5	3376.0	3378.2	3382.5	3393.5	3397.9	3400.1
12.5°	3426.4	3426.4	3406.6	3384.7	3365.0	3356.2	3354.1	3369.4	3389.1	3402.3	3406.6
15°	3437.3	3432.9	3408.8	3380.3	3360.6	3358.4	3356.2	3367.2	3395.7	3422.0	3424.2
17.5°	3443.9	3441.7	3411.0	3376.0	3365.0	3365.0	3362.8	3371.6	3402.3	3435.1	3437.3
20°	3465.8	3459.2	3424.2	3386.9	3378.2	3382.5	3376.0	3386.9	3419.8	3459.2	3468.0
22.5°	3509.6	3503.0	3468.0	3430.7	3426.4	3426.4	3424.2	3435.1	3470.2	3511.8	3518.4
25°	3562.2	3555.6	3522.7	3496.5	3500.8	3509.6	3505.2	3507.4	3535.9	3570.9	3581.9
27.5°	3632.3	3621.3	3592.8	3570.9	3584.1	3584.1	3584.1	3581.9	3599.4	3632.3	3643.2
30°	3717.7	3713.3	3682.7	3680.5	3691.4	3680.5	3680.5	3682.7	3684.9	3715.5	3726.5
32.5°	3829.5	3820.7	3805.4	3801.0	3831.6	3840.4	3809.7	3781.3	3796.6	3827.3	3833.8
35°	4013.5	4000.3	3978.4	3954.3	3978.4	4020.0	3954.3	3932.4	3971.8	4013.5	4017.9
37.5°	4263.2	4256.6	4221.6	4177.8	4175.6	4219.4	4151.5	4149.3	4223.8	4274.2	4280.7
40°	4576.5	4583.1	4539.3	4497.6	4475.7	4510.8	4458.2	4477.9	4550.2	4607.2	4602.8
42.5°	5016.8	4992.7	4924.8	4885.4	4861.3	4848.2	4835.0	4865.7	4946.7	5008.1	5056.3
45°	5531.7	5522.9	5437.5	5389.3	5336.7	5317.0	5312.6	5367.4	5465.9	5540.4	5547.0
47.5°	6114.4	6094.7	6039.9	5989.5	5969.8	5945.7	5923.8	5965.4	6064.0	6116.6	6131.9
50°	6714.7	6719.1	6719.1	6710.3	6730.0	6734.4	6675.2	6690.6	6745.4	6741.0	6736.6
52.5°	7400.4	7424.5	7538.4	7549.4	7643.6	7707.1	7599.8	7536.2	7516.5	7398.2	7407.0
55°	8206.6	8228.5	8399.4	8570.3	8824.4	8931.7	8706.1	8508.9	8368.7	8189.1	8197.8
57.5°	9212.2	9223.1	9385.2	9713.8	10116.9	10368.9	9972.3	9582.4	9297.6	9126.7	9058.8
60°	10294.4	10305.3	10541.9	10942.9	11569.4	11876.1	11385.4	10747.9	10388.6	10127.9	10145.4
62.5°	11593.5	11637.3	11849.8	12401.9	13162.1	13506.0	12855.4	12003.2	11516.8	11192.6	11205.7
65°	12984.6	13059.1	13291.3	13898.2	14599.2	14969.5	14172.0	13188.4	12583.7	12187.2	12228.8
67.5°	13887.2	13953.0	14288.1	14958.5	15832.6	16139.3	15109.7	13963.9	13208.1	12734.9	12647.3
70°	13657.2	13712.0	14158.9	15109.7	16404.4	16792.2	15333.1	13850.0	12960.5	12415.0	12380.0
72.5°	12055.8	11941.8	12594.7	13959.5	15751.6	16402.2	14629.9	12649.5	11530.0	10969.1	10903.4
75°	7989.7	8237.3	9201.2	10809.2	13326.4	14132.6	12487.3	10156.4	8747.7	8281.1	8208.8
77.5°	2670.5	2861.1	3717.7	6127.6	9085.1	10296.6	9098.2	6642.4	4699.2	3785.6	3803.2
80°	707.6	698.9	904.8	1684.7	3925.8	5963.3	4569.9	2249.9	1231.2	891.6	845.6
82.5°	254.1	284.8	365.9	466.6	1040.6	1853.4	1307.9	630.9	462.3	341.8	330.8
85°	111.7	109.5	157.7	186.2	260.7	346.1	306.7	267.3	234.4	155.5	144.6
87.5°	24.1	24.1	37.2	28.5	46.0	46.0	57.0	67.9	70.1	46.0	37.2
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)