

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: P456164

Luminaire Tested: **GALN-SA7B-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33032 lumens
Efficiency: N/A
Efficacy: 115.5 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

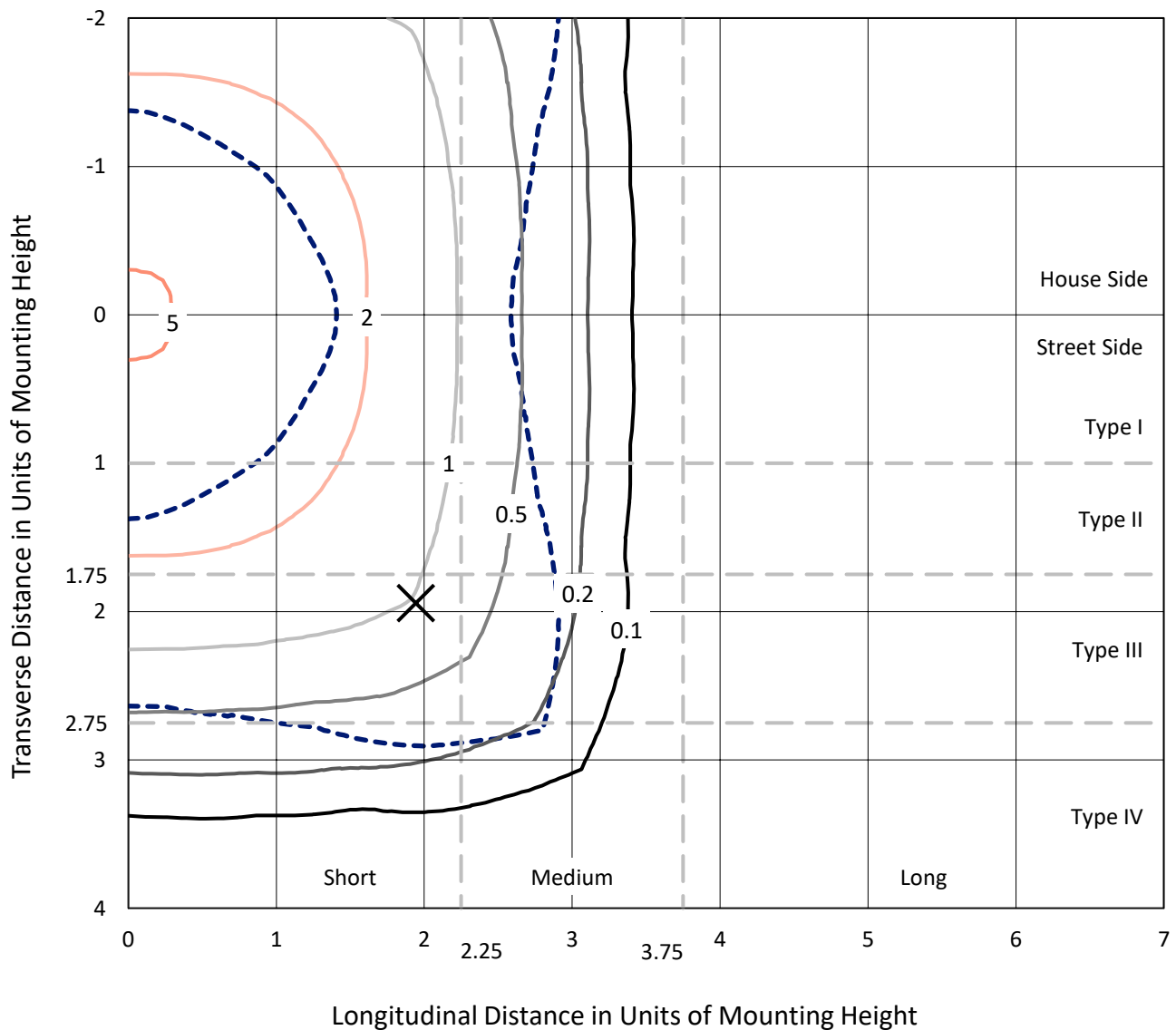


REPORT NUMBER: P456164

CATALOG NUMBER: GALN-SA7B-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

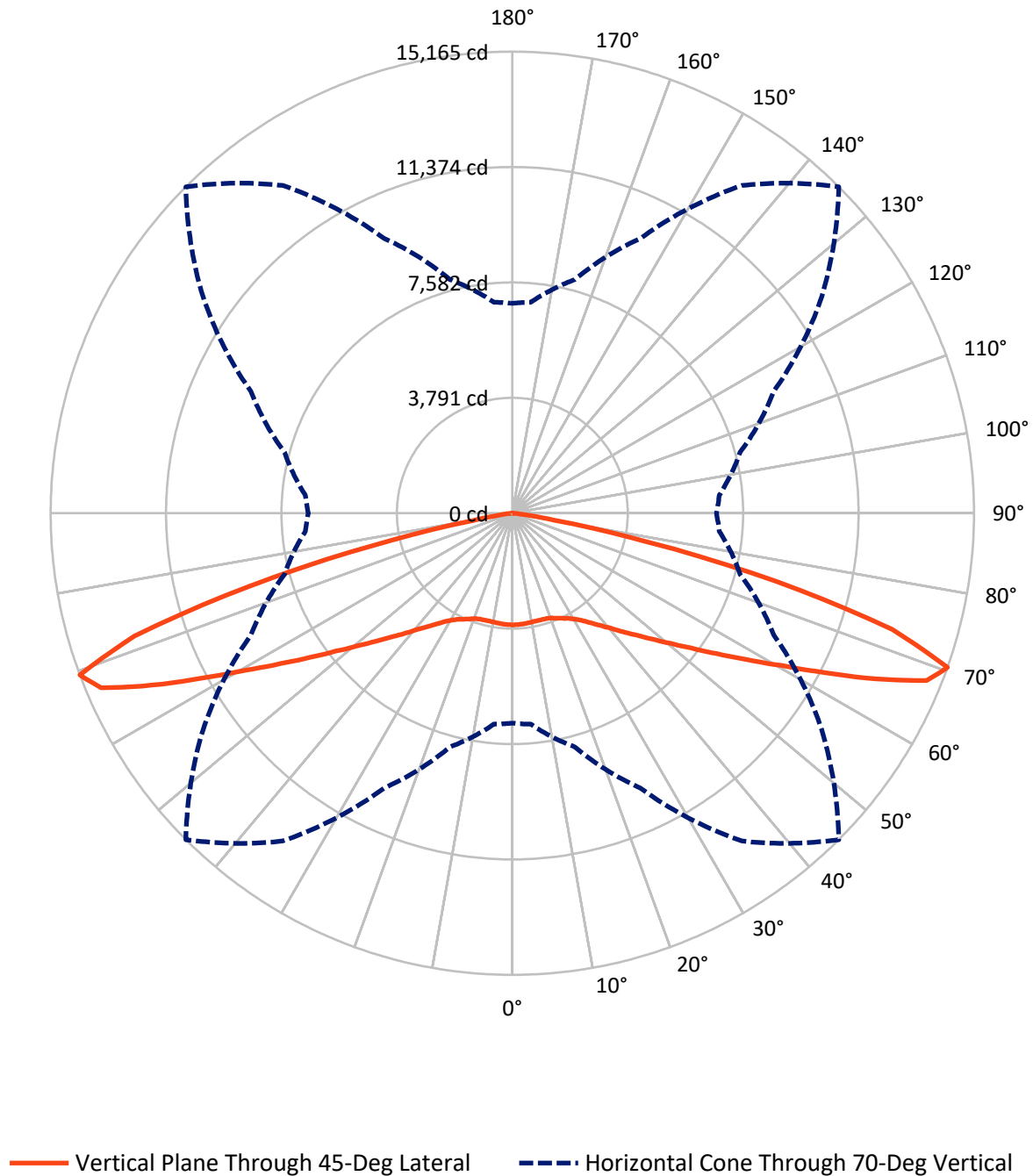


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

REPORT NUMBER: P456164

CATALOG NUMBER: GALN-SA7B-830-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P456164

CATALOG NUMBER: GALN-SA7B-830-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16516.0	0.0	16516.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16516.0	0.0	16516.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33032.0	0.0	33032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.8	1.1
10°-20°	1020.7	3.1
20°-30°	1745.7	5.3
30°-40°	2770.8	8.4
40°-50°	4470.1	13.5
50°-60°	7272.9	22.0
60°-70°	10543.0	31.9
70°-80°	4676.5	14.2
80°-90°	184.4	0.6
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°	33032.0	100.0
0°-180°	33032.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456164

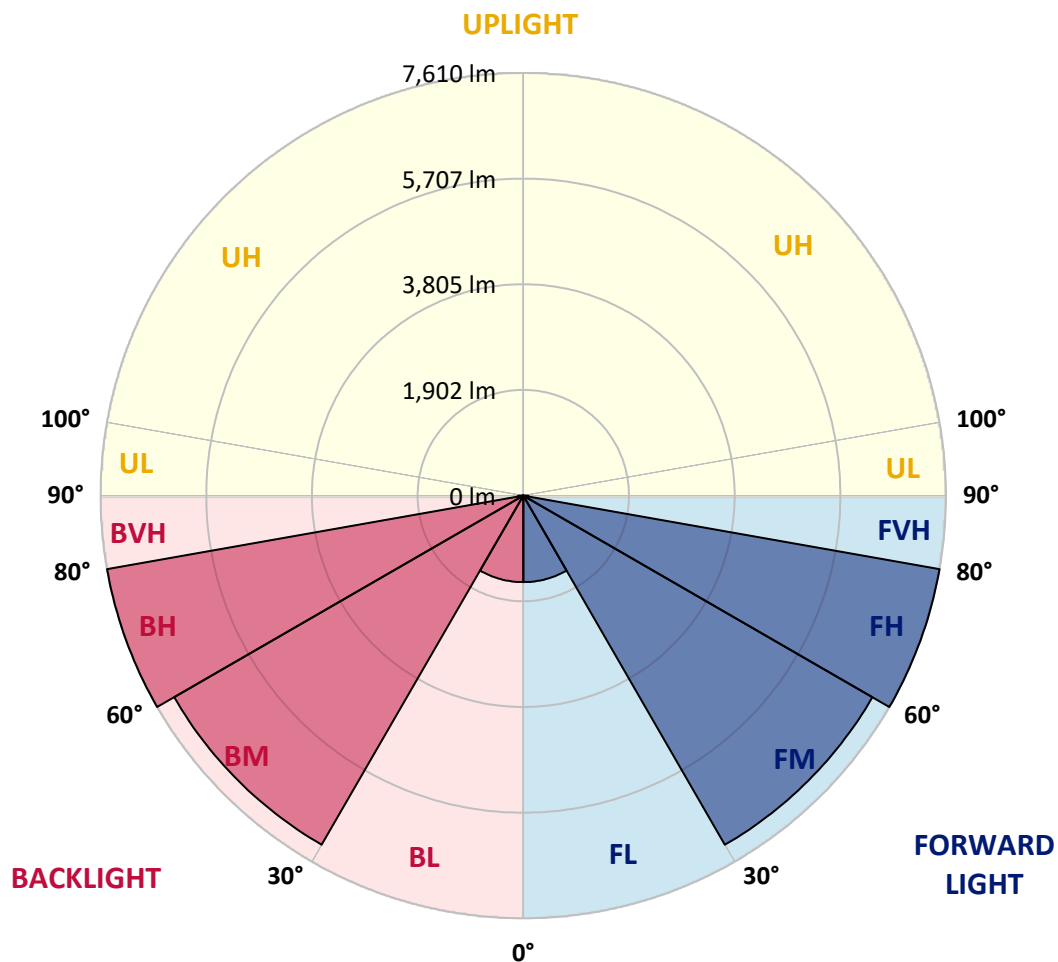
CATALOG NUMBER: GALN-SA7B-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1557.1	4.7			
FM	(30°-60°)	7256.9	22.0			
FH	(60°-80°)	7609.8	23.0			G4/12000
FVH	(80°-90°)	92.2	0.3			G1/100
BL	(0°-30°)	1557.1	4.7	B3/2500		
BM	(30°-60°)	7256.9	22.0	B4/8500		
BH	(60°-80°)	7609.8	23.0	B5		G4/12000
BVH	(80°-90°)	92.2	0.3			G1/100
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





REPORT NUMBER: P456164

CATALOG NUMBER: GALN-SA7B-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3668.0	3668.0	3668.0	3668.0	3668.0	3668.0	3668.0	3668.0	3668.0	3668.0	3668.0
2.5°	3668.0	3671.5	3666.3	3662.8	3661.1	3661.1	3659.3	3661.1	3671.5	3673.3	3668.0
5°	3657.6	3661.1	3659.3	3655.9	3654.1	3654.1	3652.4	3650.6	3659.3	3662.8	3661.1
7.5°	3643.7	3645.4	3643.7	3641.9	3643.7	3641.9	3636.7	3633.2	3640.2	3640.2	3638.5
10°	3619.3	3622.8	3621.0	3622.8	3626.3	3626.3	3619.3	3612.3	3614.1	3610.6	3610.6
12.5°	3589.7	3594.9	3596.7	3603.6	3612.3	3622.8	3607.1	3591.4	3588.0	3586.2	3584.5
15°	3570.6	3575.8	3582.7	3589.7	3605.4	3628.0	3605.4	3581.0	3574.0	3567.1	3563.6
17.5°	3565.3	3572.3	3582.7	3593.2	3614.1	3636.7	3617.6	3593.2	3575.8	3565.3	3561.9
20°	3579.3	3584.5	3600.2	3619.3	3648.9	3671.5	3652.4	3626.3	3600.2	3584.5	3579.3
22.5°	3607.1	3615.8	3635.0	3669.8	3711.6	3744.6	3718.5	3675.0	3633.2	3612.3	3605.4
25°	3668.0	3675.0	3697.6	3744.6	3793.4	3824.7	3796.9	3746.4	3688.9	3661.1	3652.4
27.5°	3760.3	3770.8	3795.1	3850.8	3890.9	3908.3	3889.1	3854.3	3812.5	3782.9	3776.0
30°	3890.9	3903.1	3939.6	3998.8	4024.9	4035.4	4026.7	4004.0	3974.4	3943.1	3936.1
32.5°	4066.7	4073.7	4115.5	4171.2	4195.5	4199.0	4188.6	4178.1	4129.4	4077.2	4073.7
35°	4263.4	4275.6	4326.1	4392.3	4414.9	4416.6	4395.7	4380.1	4322.6	4280.8	4280.8
37.5°	4524.6	4529.8	4578.5	4653.4	4677.8	4670.8	4660.4	4646.4	4585.5	4531.5	4533.3
40°	4831.0	4841.4	4883.2	4970.2	4970.2	4961.5	4968.5	4958.0	4897.1	4844.9	4846.6
42.5°	5194.8	5200.0	5250.5	5342.8	5335.8	5318.4	5325.4	5311.4	5273.1	5214.0	5193.1
45°	5583.0	5603.9	5691.0	5779.7	5765.8	5710.1	5738.0	5734.5	5699.7	5610.9	5616.1
47.5°	6051.3	6086.1	6169.7	6275.9	6260.2	6173.2	6204.5	6225.4	6176.7	6079.2	6061.8
50°	6578.8	6601.4	6725.0	6824.3	6810.3	6718.1	6789.5	6792.9	6671.1	6533.5	6533.5
52.5°	7141.1	7163.7	7330.9	7485.8	7494.5	7360.5	7417.9	7414.4	7216.0	7034.9	7000.1
55°	7771.3	7781.8	7997.6	8225.7	8274.4	8143.9	8150.8	8081.2	7823.5	7612.9	7593.7
57.5°	8422.4	8460.7	8699.2	8995.2	9139.7	9059.6	9023.0	8836.7	8587.8	8345.8	8333.6
60°	9143.1	9144.9	9454.8	9804.7	10097.1	10151.1	10001.4	9752.4	9430.4	9110.1	9096.1
62.5°	9642.8	9717.6	10109.3	10701.2	11225.2	11528.2	11133.0	10610.7	9977.0	9460.0	9407.8
65°	9745.5	9796.0	10393.1	11395.8	12466.5	13119.3	12205.4	11094.7	10013.6	9324.2	9289.4
67.5°	8915.1	8969.0	9773.3	11312.3	13336.9	14675.7	12901.7	10861.4	9393.8	8540.8	8472.9
70°	6895.7	6956.6	7950.6	9957.9	13143.7	15164.9	12405.6	9473.9	7746.9	6826.0	6702.4
72.5°	3666.3	3890.9	4740.4	6834.7	10668.2	13056.6	10172.0	6913.1	4996.3	4084.1	3920.5
75°	1338.7	1366.6	1840.1	3030.9	6206.3	8953.4	6444.8	3297.2	1895.8	1464.1	1389.2
77.5°	553.6	551.9	605.8	915.7	2254.4	4585.5	2515.6	967.9	604.1	558.8	551.9
80°	327.3	327.3	360.4	381.3	593.6	1384.0	663.3	431.7	362.1	330.8	336.0
82.5°	146.2	154.9	228.1	240.2	287.2	379.5	320.3	275.1	236.8	163.6	148.0
85°	80.1	69.6	120.1	125.3	137.5	141.0	151.5	149.7	137.5	80.1	81.8
87.5°	15.7	19.1	34.8	26.1	29.6	26.1	34.8	48.7	50.5	27.9	22.6
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)