

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: P455933

Luminaire Tested: **GALN-SA7A-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26415 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 215
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

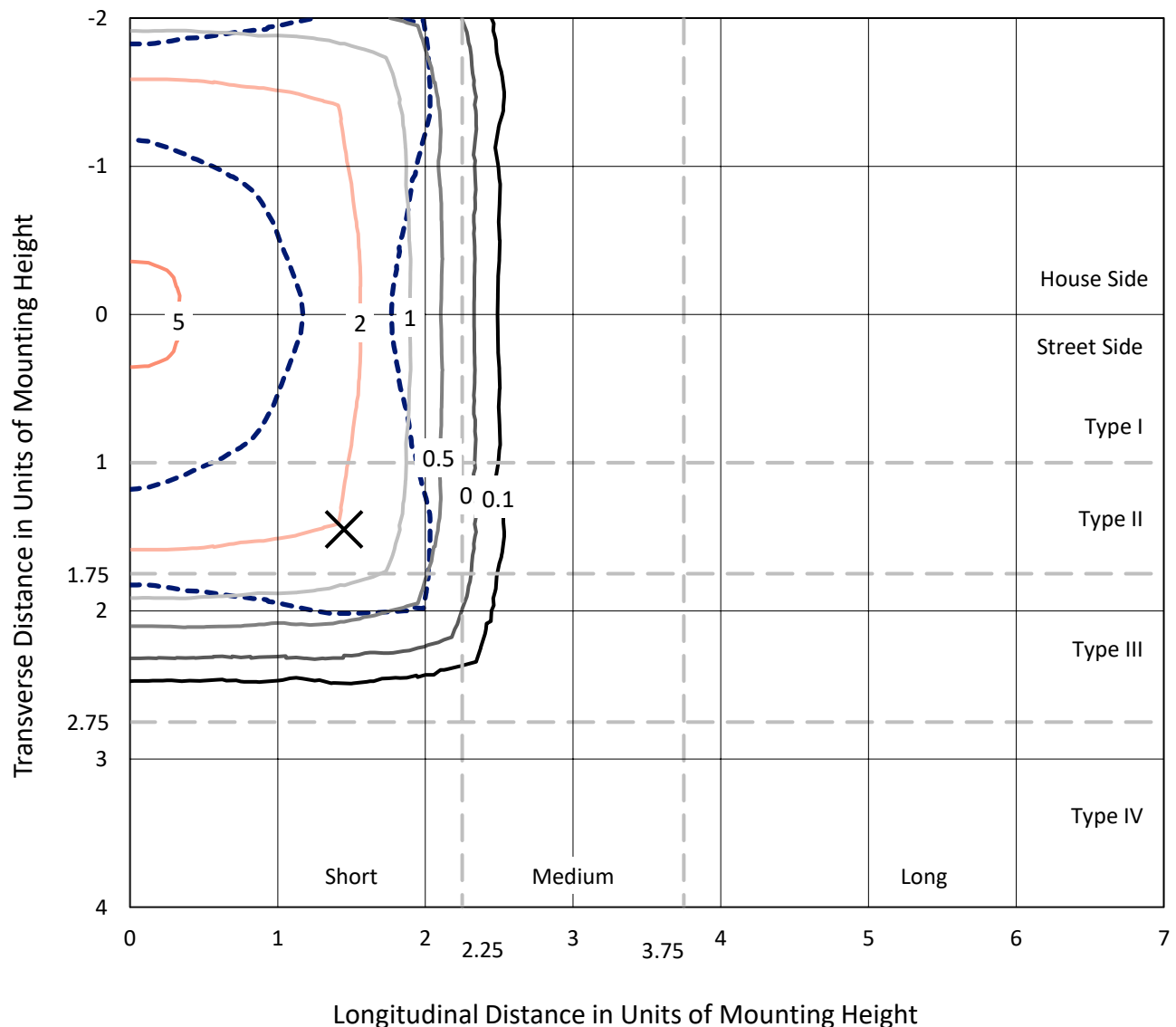


REPORT NUMBER: P455933

CATALOG NUMBER: GALN-SA7A-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

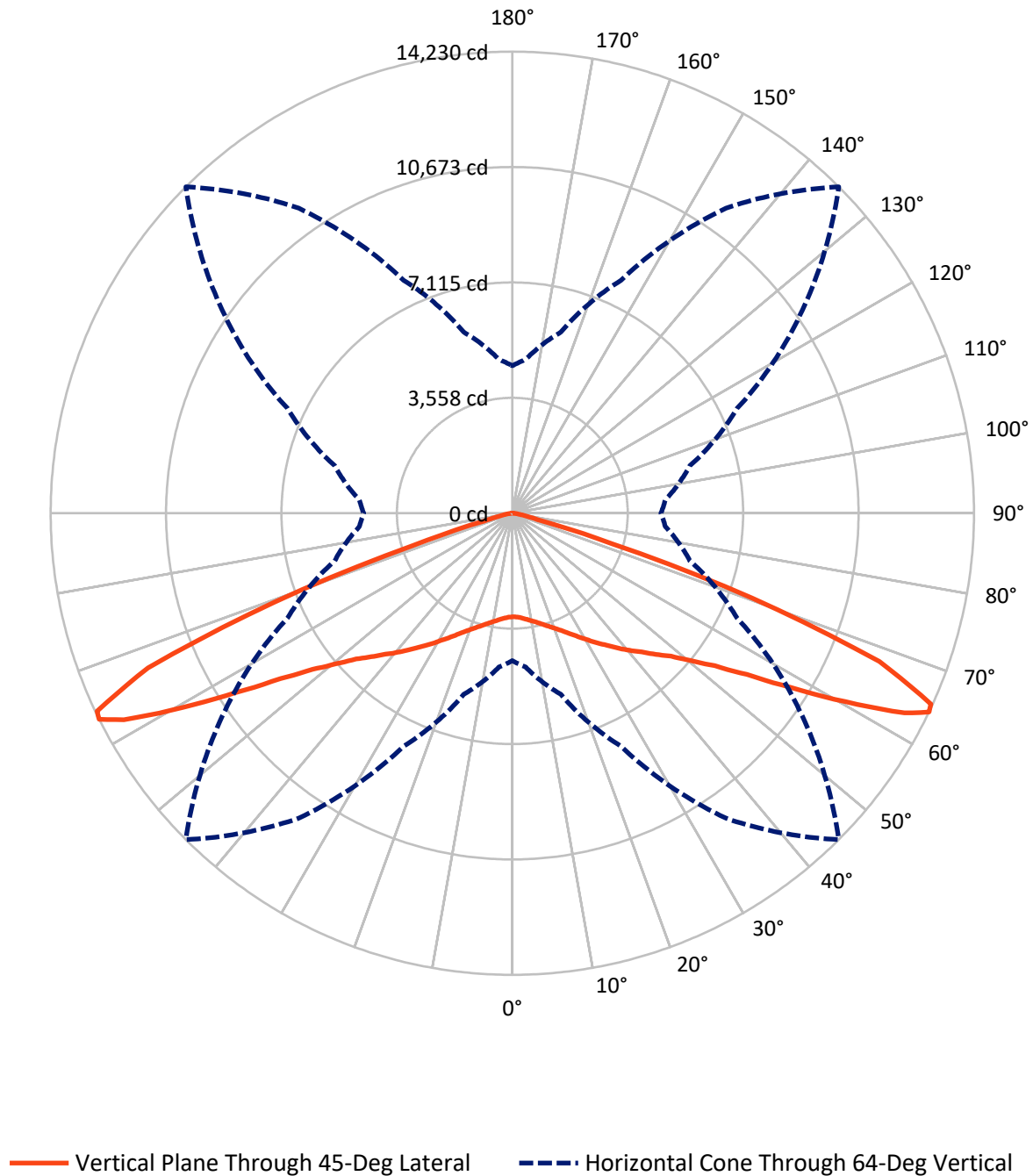


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

REPORT NUMBER: P455933

CATALOG NUMBER: GALN-SA7A-830-U-5NQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13207.5	0.0	13207.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13207.5	0.0	13207.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26415.0	0.0	26415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	1.2
10°-20°	1011.8	3.8
20°-30°	1911.9	7.2
30°-40°	3166.4	12.0
40°-50°	4943.2	18.7
50°-60°	7642.1	28.9
60°-70°	6589.7	24.9
70°-80°	746.8	2.8
80°-90°	89.5	0.3
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°	26415.0	100.0
0°-180°	26415.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455933

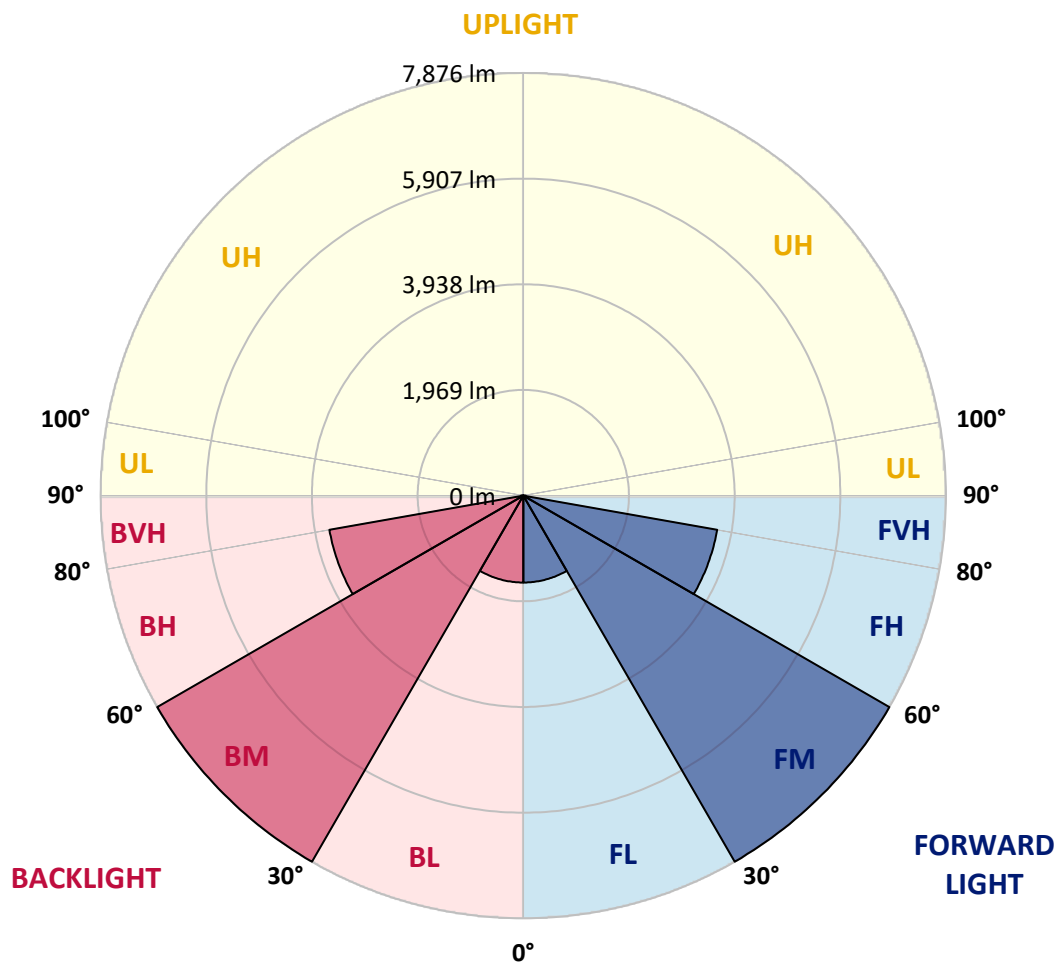
CATALOG NUMBER: GALN-SA7A-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1618.7	6.1			
FM	(30°-60°)	7875.9	29.8			
FH	(60°-80°)	3668.2	13.9			G2/5000
FVH	(80°-90°)	44.7	0.2			G1/100
BL	(0°-30°)	1618.7	6.1	B3/2500		
BM	(30°-60°)	7875.9	29.8	B4/8500		
BH	(60°-80°)	3668.2	13.9	B4/5000		G2/5000
BVH	(80°-90°)	44.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P455933

CATALOG NUMBER: GALN-SA7A-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7
2.5°	3205.3	3212.3	3206.7	3205.3	3203.9	3203.9	3203.9	3205.3	3210.9	3215.1	3212.3
5°	3245.9	3251.5	3248.7	3247.3	3245.9	3247.3	3244.5	3243.1	3247.3	3247.3	3245.9
7.5°	3296.2	3303.2	3300.4	3303.2	3304.6	3306.0	3299.0	3293.4	3292.0	3296.2	3293.4
10°	3364.8	3370.4	3371.8	3373.2	3376.0	3374.6	3366.2	3356.4	3355.0	3353.6	3352.2
12.5°	3441.7	3445.9	3447.3	3452.9	3457.1	3458.5	3448.7	3440.3	3426.3	3429.1	3423.5
15°	3528.5	3536.9	3535.5	3543.9	3555.1	3557.9	3548.1	3534.1	3521.5	3514.5	3510.3
17.5°	3634.8	3640.4	3637.6	3646.0	3660.0	3667.0	3658.6	3640.4	3627.8	3612.4	3604.0
20°	3760.7	3770.5	3773.3	3773.3	3785.9	3792.9	3780.3	3774.7	3755.1	3743.9	3736.9
22.5°	3903.4	3907.6	3916.0	3924.4	3937.0	3934.2	3930.0	3921.6	3903.4	3893.6	3882.4
25°	4064.3	4068.5	4089.5	4107.7	4111.9	4109.1	4103.5	4099.3	4082.5	4060.1	4051.7
27.5°	4251.8	4260.2	4288.2	4305.0	4305.0	4306.4	4295.2	4309.2	4272.8	4246.2	4243.4
30°	4486.8	4492.4	4516.2	4533.0	4524.6	4517.6	4514.8	4528.8	4489.6	4442.1	4430.9
32.5°	4719.1	4738.7	4759.7	4796.0	4766.7	4754.1	4751.3	4761.1	4716.3	4663.1	4647.7
35°	4968.1	4982.1	5021.3	5052.1	5025.5	4996.1	5008.7	5039.5	4986.3	4915.0	4912.2
37.5°	5243.7	5256.3	5306.7	5338.9	5319.3	5268.9	5289.9	5326.3	5273.1	5185.0	5166.8
40°	5530.6	5557.1	5620.1	5653.7	5621.5	5554.3	5593.5	5632.7	5585.1	5483.0	5442.4
42.5°	5852.3	5894.3	5985.3	6002.0	5940.5	5849.5	5918.1	5981.1	5947.5	5830.0	5814.6
45°	6228.7	6253.9	6365.8	6402.2	6316.8	6203.5	6288.9	6403.6	6378.4	6242.7	6213.3
47.5°	6649.8	6673.6	6789.7	6844.3	6736.6	6584.1	6738.0	6887.7	6872.3	6726.8	6712.8
50°	7147.9	7153.5	7314.4	7375.9	7268.2	7136.7	7273.8	7459.9	7398.3	7212.2	7209.5
52.5°	7693.5	7700.5	7903.4	8022.3	7962.2	7813.9	7976.1	8089.5	7932.8	7689.3	7671.1
55°	8166.4	8201.4	8478.4	8794.6	8877.2	8769.4	8818.4	8765.2	8379.1	8037.7	7984.5
57.5°	8359.5	8428.0	8849.2	9439.6	9976.8	10136.3	9758.6	9252.1	8556.8	8074.1	8022.3
60°	7888.0	7962.2	8615.5	9736.2	11107.3	11799.8	10737.9	9334.7	8152.4	7473.9	7392.7
62.5°	6316.8	6337.8	7299.0	9038.0	11766.2	13559.9	11150.7	8630.9	6975.8	6053.8	6021.6
64°	4545.6	4761.1	5779.6	7924.4	11478.0	14230.0	10912.8	7644.6	5666.3	4733.1	4582.0
65°	3399.8	3458.5	4658.9	6767.3	10970.2	14179.7	10451.1	6701.6	4692.5	3622.2	3454.3
67.5°	1284.4	1291.3	1719.5	3373.2	7809.7	12200.0	7976.1	3646.0	1976.9	1429.9	1378.1
70°	533.0	542.8	631.0	1134.7	3356.4	7833.4	3846.1	1315.1	723.3	586.2	577.8
72.5°	390.3	395.9	422.5	503.7	1032.5	3216.5	1264.8	558.2	423.9	379.2	375.0
75°	306.4	309.2	328.8	370.8	481.3	891.2	526.1	383.3	323.2	291.0	288.2
77.5°	233.6	240.6	254.6	282.6	323.2	422.5	348.4	286.8	249.0	222.5	218.3
80°	160.9	169.3	195.9	207.1	216.9	274.2	237.8	216.9	194.5	162.3	152.5
82.5°	99.3	104.9	131.5	141.3	137.1	153.9	152.5	155.3	138.5	100.7	93.7
85°	51.8	54.6	71.4	74.2	68.6	63.0	78.3	90.9	85.3	57.4	56.0
87.5°	11.2	12.6	15.4	14.0	15.4	15.4	19.6	29.4	30.8	19.6	18.2
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)