

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: P457180

Luminaire Tested: **GALN-SA8C-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457180
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-SA8C-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53957 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

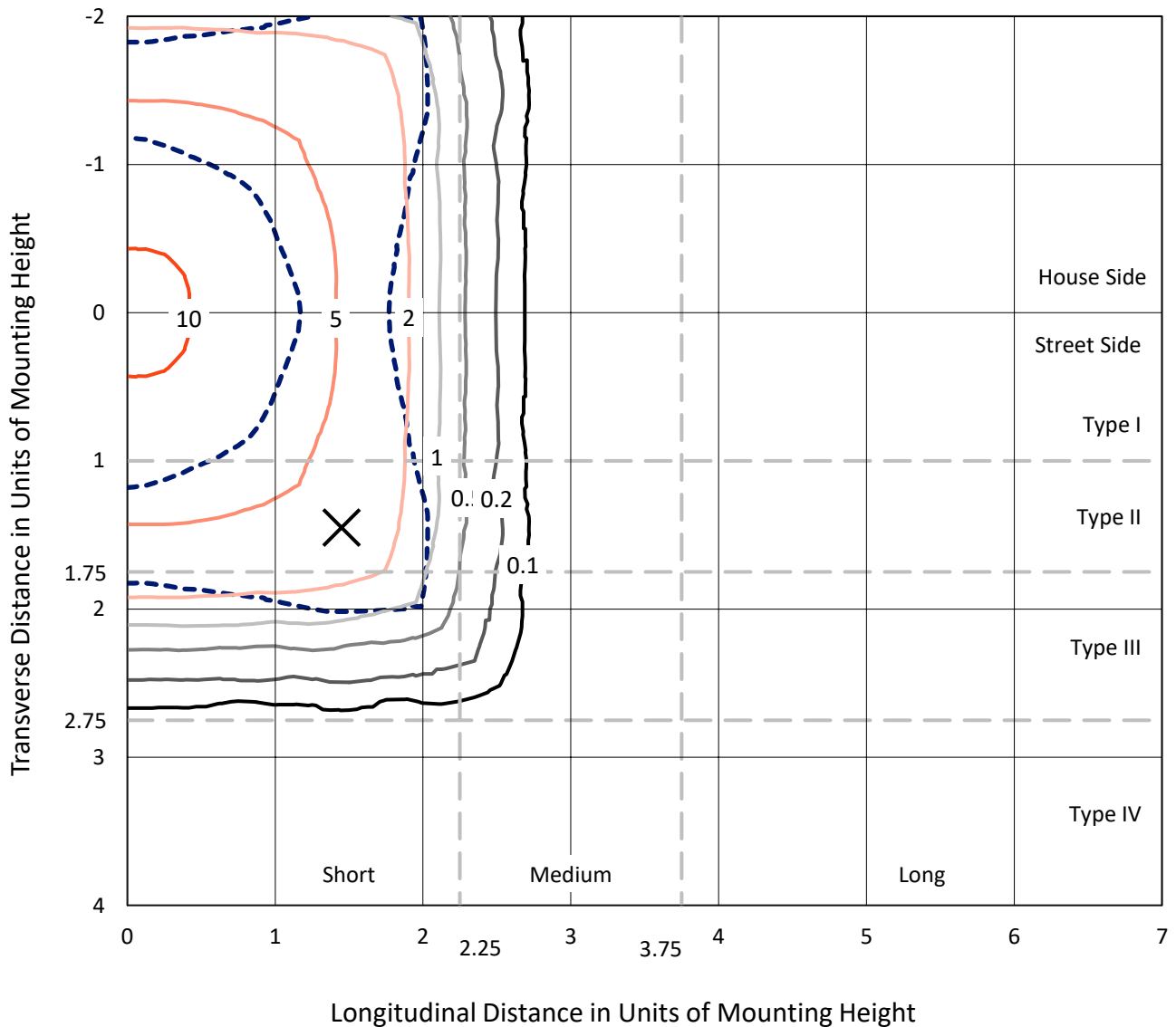
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

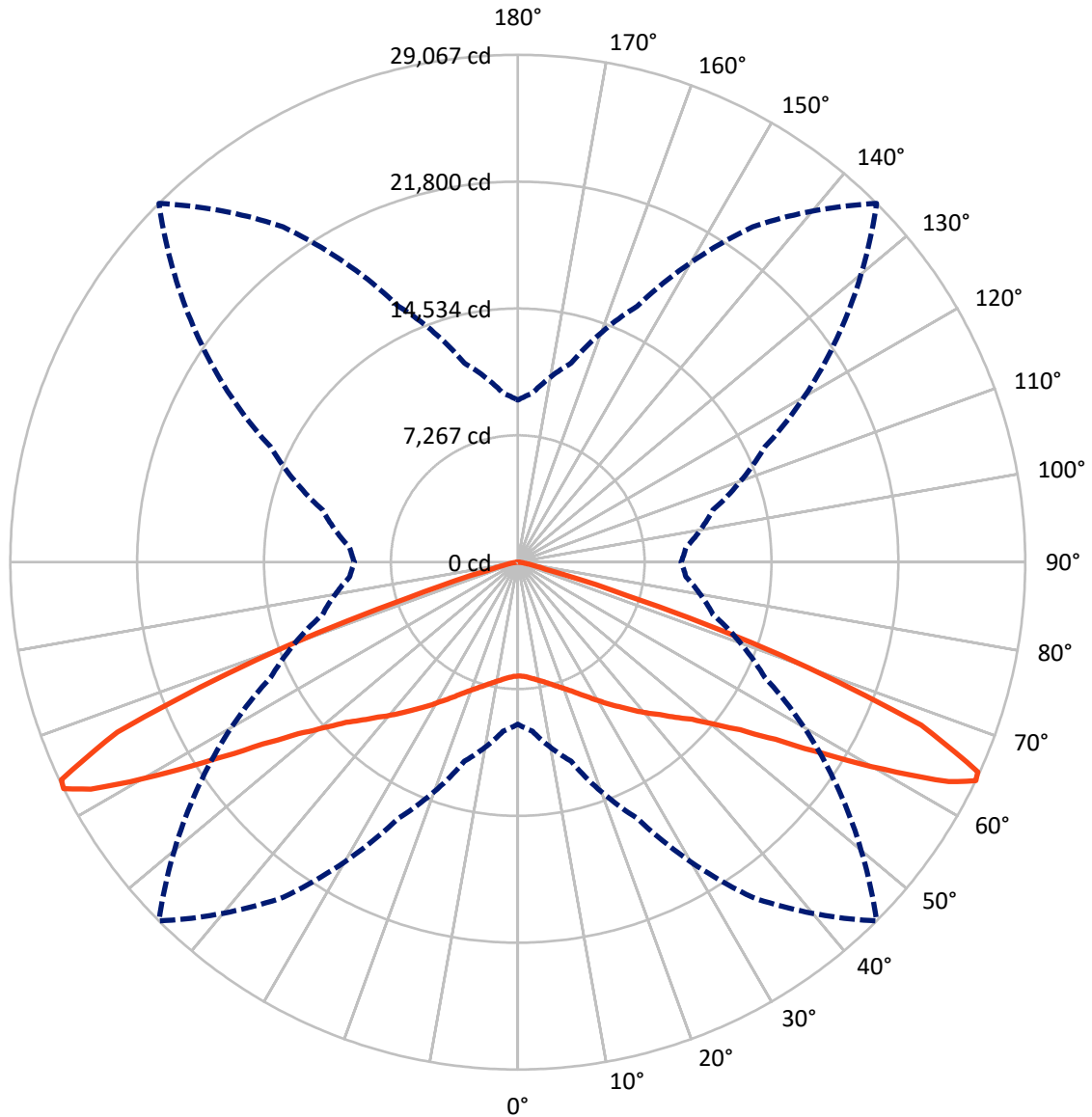
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26978.5	0.0	26978.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26978.5	0.0	26978.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53957.0	0.0	53957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.7	1.2
10°-20°	2066.7	3.8
20°-30°	3905.4	7.2
30°-40°	6467.8	12.0
40°-50°	10097.3	18.7
50°-60°	15610.3	28.9
60°-70°	13460.5	24.9
70°-80°	1525.4	2.8
80°-90°	182.8	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°	53957.0	100.0
0°-180°	53957.0	100.0

Coefficient of Utilization



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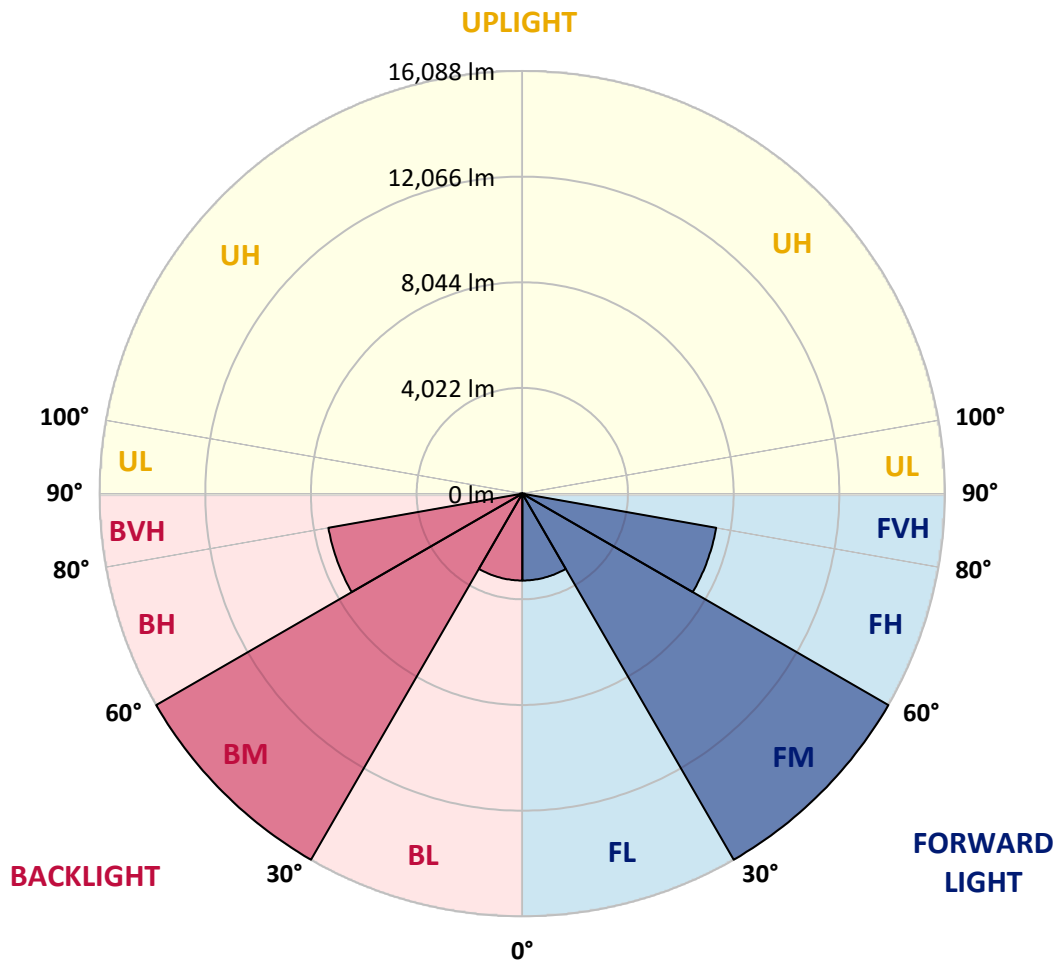
CATALOG NUMBER: GALN-SA8C-730-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3306.4	6.1			
FM	(30°-60°)	16087.7	29.8			
FH	(60°-80°)	7493.0	13.9			G3/7500
FVH	(80°-90°)	91.4	0.2			G1/100
BL	(0°-30°)	3306.4	6.1	B4/5000		
BM	(30°-60°)	16087.7	29.8	B5		
BH	(60°-80°)	7493.0	13.9	B5		G3/7500
BVH	(80°-90°)	91.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6521.6	6521.6	6521.6	6521.6	6521.6	6521.6	6521.6	6521.6	6521.6	6521.6	6521.6
2.5°	6547.3	6561.6	6550.2	6547.3	6544.5	6544.5	6544.5	6547.3	6558.8	6567.3	6561.6
5°	6630.2	6641.6	6635.9	6633.1	6630.2	6633.1	6627.4	6624.5	6633.1	6633.1	6630.2
7.5°	6733.1	6747.4	6741.7	6747.4	6750.2	6753.1	6738.8	6727.4	6724.5	6733.1	6727.4
10°	6873.1	6884.6	6887.4	6890.3	6896.0	6893.1	6876.0	6856.0	6853.1	6850.3	6847.4
12.5°	7030.3	7038.9	7041.7	7053.2	7061.7	7064.6	7044.6	7027.4	6998.9	7004.6	6993.2
15°	7207.5	7224.6	7221.8	7238.9	7261.8	7267.5	7247.5	7218.9	7193.2	7178.9	7170.3
17.5°	7424.7	7436.1	7430.4	7447.6	7476.1	7490.4	7473.3	7436.1	7410.4	7379.0	7361.8
20°	7681.9	7701.9	7707.6	7707.6	7733.3	7747.6	7721.9	7710.5	7670.5	7647.6	7633.3
22.5°	7973.4	7982.0	7999.1	8016.3	8042.0	8036.3	8027.7	8010.5	7973.4	7953.4	7930.5
25°	8302.1	8310.6	8353.5	8390.6	8399.2	8393.5	8382.1	8373.5	8339.2	8293.5	8276.3
27.5°	8685.0	8702.1	8759.3	8793.6	8793.6	8796.5	8773.6	8802.2	8727.9	8673.6	8667.9
30°	9165.1	9176.6	9225.1	9259.4	9242.3	9228.0	9222.3	9250.9	9170.8	9073.7	9050.8
32.5°	9639.5	9679.5	9722.4	9796.7	9736.7	9711.0	9705.3	9725.3	9633.8	9525.2	9493.8
35°	10148.2	10176.8	10256.8	10319.7	10265.4	10205.4	10231.1	10294.0	10185.4	10039.6	10033.9
37.5°	10711.2	10736.9	10839.8	10905.6	10865.5	10762.7	10805.5	10879.8	10771.2	10591.2	10554.0
40°	11297.1	11351.4	11480.0	11548.6	11482.8	11345.7	11425.7	11505.7	11408.5	11199.9	11117.0
42.5°	11954.4	12040.1	12225.9	12260.2	12134.4	11948.7	12088.7	12217.3	12148.7	11908.7	11877.2
45°	12723.1	12774.6	13003.2	13077.5	12903.2	12671.7	12846.0	13080.4	13028.9	12751.7	12691.7
47.5°	13583.4	13631.9	13869.1	13980.6	13760.5	13449.0	13763.4	14069.2	14037.8	13740.5	13712.0
50°	14600.7	14612.2	14940.8	15066.6	14846.5	14577.9	14858.0	15238.0	15112.3	14732.2	14726.5
52.5°	15715.3	15729.6	16144.0	16386.9	16264.0	15961.1	16292.6	16524.1	16204.0	15706.7	15669.6
55°	16681.3	16752.7	17318.6	17964.4	18133.1	17913.0	18013.0	17904.4	17115.7	16418.3	16309.7
57.5°	17075.6	17215.7	18075.9	19281.9	20379.3	20705.1	19933.5	18899.0	17478.6	16492.6	16386.9
60°	16112.6	16264.0	17598.6	19887.8	22688.5	24103.1	21934.0	19067.6	16652.7	15266.6	15100.9
62.5°	12903.2	12946.1	14909.4	18461.7	24034.5	27698.3	22777.1	17630.1	14249.2	12365.9	12300.2
64°	9285.2	9725.3	11805.8	16186.9	23445.8	29067.2	22291.2	15615.3	11574.3	9668.1	9359.5
65°	6944.6	7064.6	9516.6	13823.4	22408.4	28964.3	21348.1	13689.1	9585.2	7399.0	7056.0
67.5°	2623.5	2637.8	3512.3	6890.3	15952.5	24920.4	16292.6	7447.6	4038.1	2920.7	2815.0
70°	1088.8	1108.8	1288.9	2317.7	6856.0	16001.1	7856.2	2686.4	1477.5	1197.4	1180.3
72.5°	797.3	808.8	863.1	1028.8	2109.1	6570.2	2583.5	1140.3	865.9	774.5	765.9
75°	625.9	631.6	671.6	757.3	983.1	1820.4	1074.6	783.1	660.2	594.4	588.7
77.5°	477.3	491.5	520.1	577.3	660.2	863.1	711.6	585.9	508.7	454.4	445.8
80°	328.7	345.8	400.1	423.0	443.0	560.1	485.8	443.0	397.2	331.5	311.5
82.5°	202.9	214.3	268.6	288.6	280.1	314.4	311.5	317.2	282.9	205.8	191.5
85°	105.7	111.5	145.8	151.5	140.0	128.6	160.0	185.8	174.3	117.2	114.3
87.5°	22.9	25.7	31.4	28.6	31.4	31.4	40.0	60.0	62.9	40.0	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)