

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: P457789

Luminaire Tested: **GALN-SA9A-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457789
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-SA9A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 34381 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

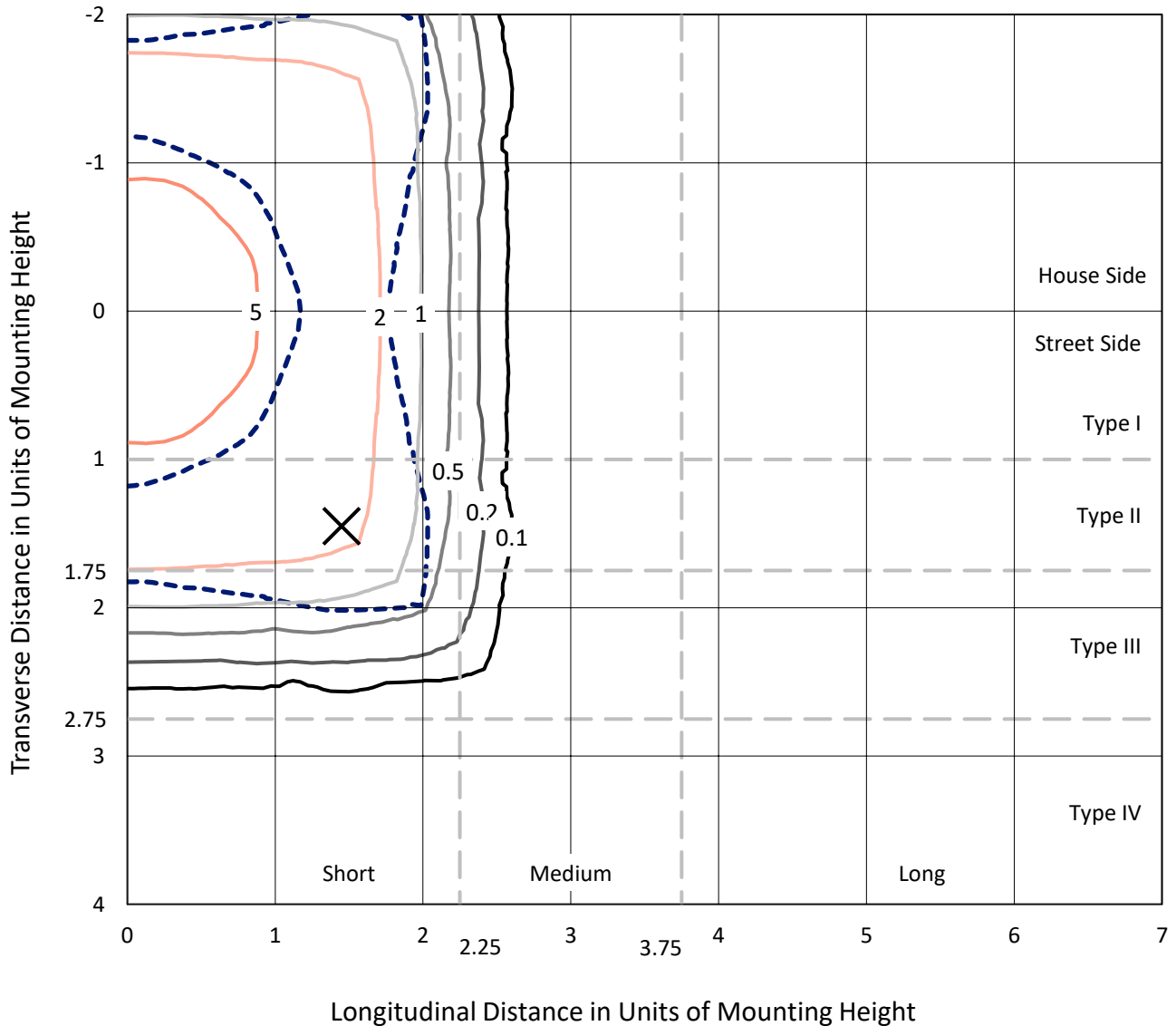
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457789
 CATALOG NUMBER: GALN-SA9A-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

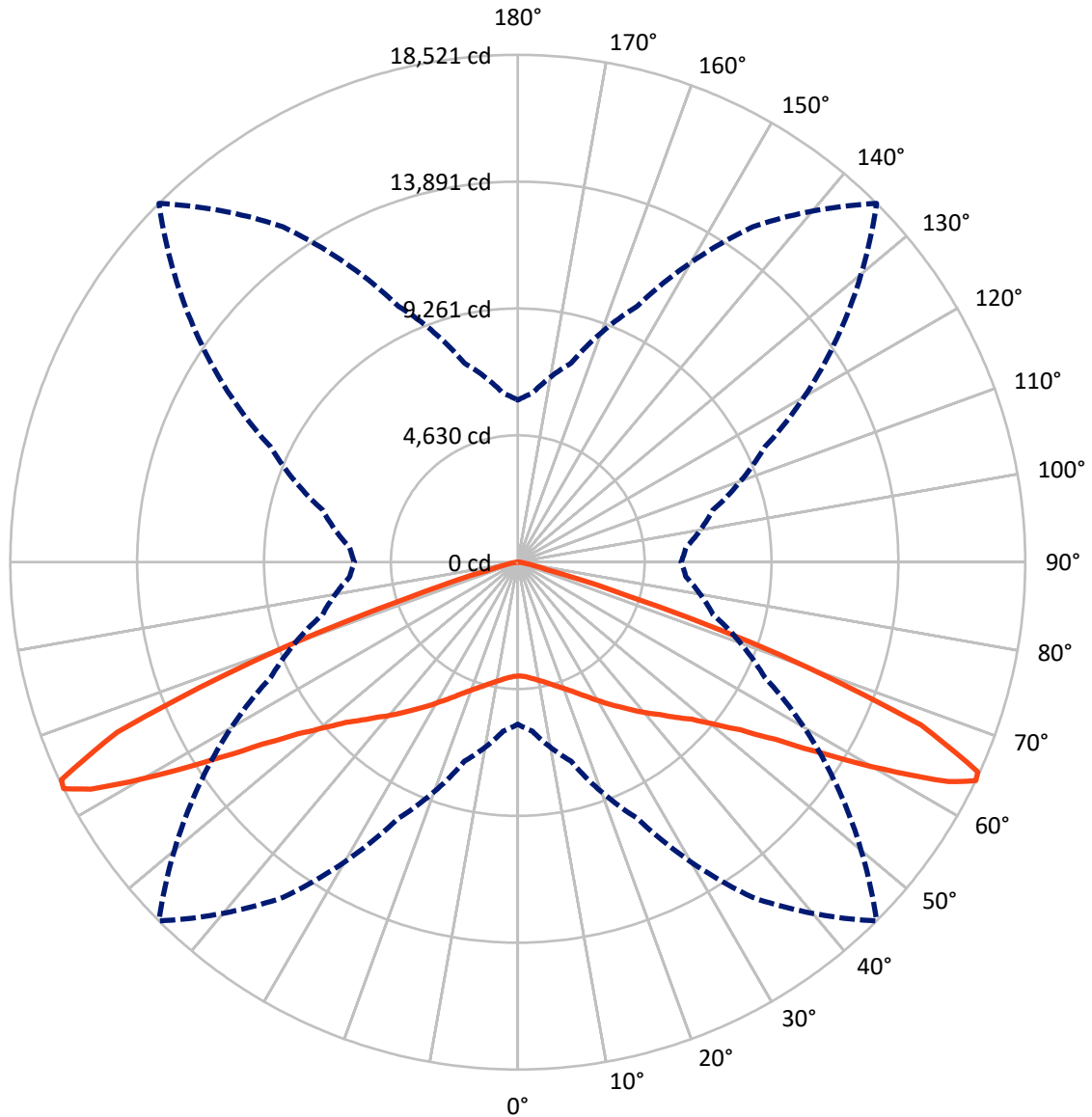
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

REPORT NUMBER: P457789
CATALOG NUMBER: GALN-SA9A-830-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457789

CATALOG NUMBER: GALN-SA9A-830-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17190.5	0.0	17190.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17190.5	0.0	17190.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34381.0	0.0	34381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	1.2
10°-20°	1316.9	3.8
20°-30°	2488.5	7.2
30°-40°	4121.3	12.0
40°-50°	6434.0	18.7
50°-60°	9946.7	28.9
60°-70°	8577.0	24.9
70°-80°	972.0	2.8
80°-90°	116.5	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°	34381.0	100.0
0°-180°	34381.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457789

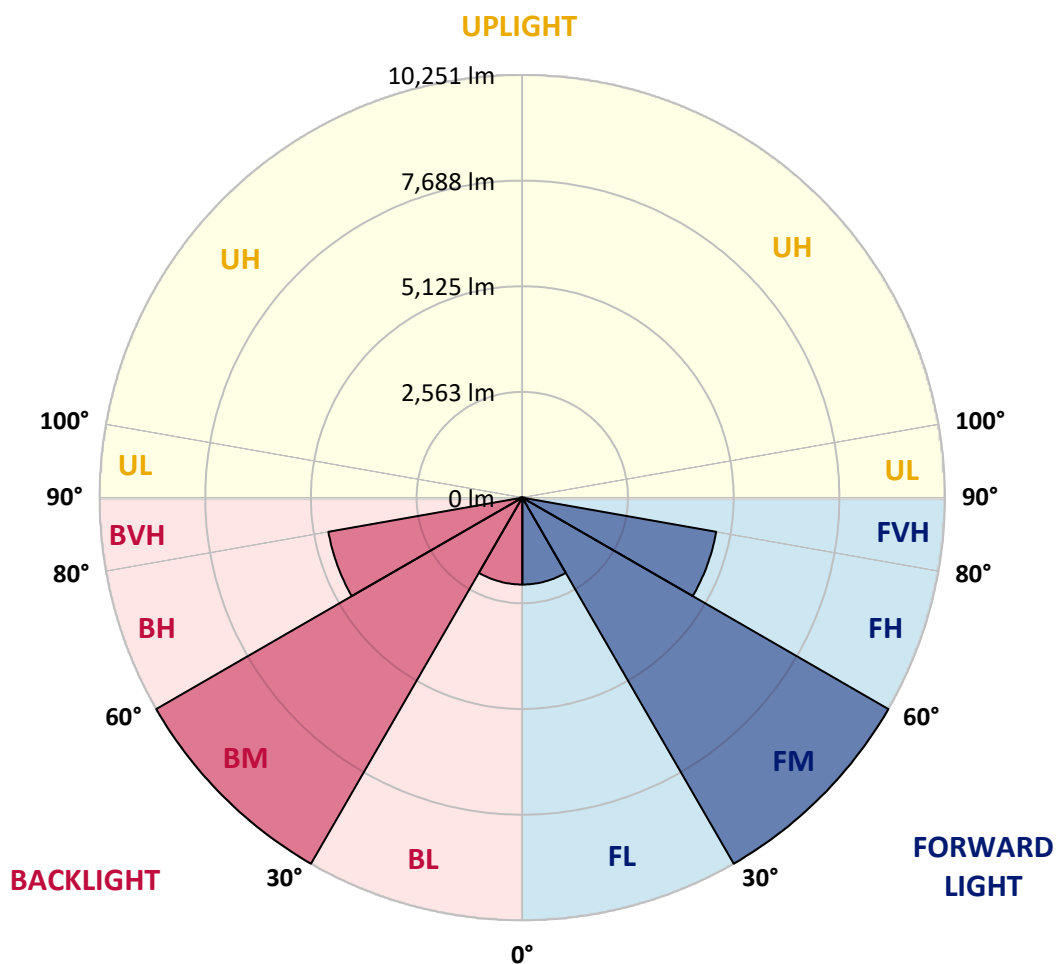
CATALOG NUMBER: GALN-SA9A-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2106.8	6.1			
FM	(30°-60°)	10251.0	29.8			
FH	(60°-80°)	4774.5	13.9			G2/5000
FVH	(80°-90°)	58.2	0.2			G1/100
BL	(0°-30°)	2106.8	6.1	B3/2500		
BM	(30°-60°)	10251.0	29.8	B5		
BH	(60°-80°)	4774.5	13.9	B4/5000		G2/5000
BVH	(80°-90°)	58.2	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-G2

Type V Short





REPORT NUMBER: P457789

CATALOG NUMBER: GALN-SA9A-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4155.5	4155.5	4155.5	4155.5	4155.5	4155.5	4155.5	4155.5	4155.5	4155.5	4155.5
2.5°	4171.9	4181.0	4173.7	4171.9	4170.1	4170.1	4170.1	4171.9	4179.2	4184.7	4181.0
5°	4224.7	4232.0	4228.4	4226.5	4224.7	4226.5	4222.9	4221.1	4226.5	4226.5	4224.7
7.5°	4290.3	4299.4	4295.7	4299.4	4301.2	4303.0	4293.9	4286.6	4284.8	4290.3	4286.6
10°	4379.5	4386.8	4388.6	4390.4	4394.1	4392.3	4381.3	4368.6	4366.8	4364.9	4363.1
12.5°	4479.7	4485.1	4486.9	4494.2	4499.7	4501.5	4488.8	4477.8	4459.6	4463.3	4456.0
15°	4592.6	4603.5	4601.7	4612.6	4627.2	4630.8	4618.1	4599.8	4583.5	4574.4	4568.9
17.5°	4731.0	4738.2	4734.6	4745.5	4763.7	4772.8	4761.9	4738.2	4721.9	4701.8	4690.9
20°	4894.8	4907.6	4911.2	4911.2	4927.6	4936.7	4920.3	4913.1	4887.6	4873.0	4863.9
22.5°	5080.6	5086.1	5097.0	5107.9	5124.3	5120.7	5115.2	5104.3	5080.6	5067.8	5053.3
25°	5290.0	5295.5	5322.8	5346.5	5351.9	5348.3	5341.0	5335.5	5313.7	5284.5	5273.6
27.5°	5534.0	5544.9	5581.4	5603.2	5603.2	5605.0	5590.5	5608.7	5561.3	5526.7	5523.1
30°	5839.9	5847.2	5878.2	5900.0	5889.1	5880.0	5876.4	5894.6	5843.6	5781.7	5767.1
32.5°	6142.2	6167.7	6195.0	6242.4	6204.1	6187.8	6184.1	6196.9	6138.6	6069.4	6049.4
35°	6466.4	6484.6	6535.6	6575.6	6541.0	6502.8	6519.2	6559.2	6490.0	6397.2	6393.5
37.5°	6825.1	6841.5	6907.1	6948.9	6923.4	6857.9	6885.2	6932.5	6863.3	6748.6	6725.0
40°	7198.4	7233.0	7315.0	7358.7	7316.8	7229.4	7280.4	7331.3	7269.4	7136.5	7083.7
42.5°	7617.2	7671.9	7790.2	7812.1	7732.0	7613.6	7702.8	7784.8	7741.1	7588.1	7568.1
45°	8107.1	8139.9	8285.5	8332.9	8221.8	8074.3	8185.4	8334.7	8301.9	8125.3	8087.1
47.5°	8655.2	8686.2	8837.3	8908.3	8768.1	8569.6	8769.9	8964.8	8944.8	8755.4	8737.2
50°	9303.5	9310.8	9520.2	9600.3	9460.1	9288.9	9467.4	9709.6	9629.4	9387.3	9383.6
52.5°	10013.7	10022.8	10286.8	10441.6	10363.3	10170.3	10381.5	10529.0	10325.1	10008.2	9984.5
55°	10629.2	10674.7	11035.3	11446.8	11554.2	11414.0	11477.8	11408.6	10906.0	10461.6	10392.4
57.5°	10880.5	10969.7	11517.8	12286.3	12985.6	13193.1	12701.5	12042.3	11137.2	10509.0	10441.6
60°	10266.8	10363.3	11213.7	12672.3	14456.9	15358.3	13976.2	12149.7	10611.0	9727.8	9622.2
62.5°	8221.8	8249.1	9500.2	11763.7	15314.6	17649.1	14513.4	11233.7	9079.5	7879.5	7837.6
64°	5916.4	6196.9	7522.6	10314.1	14939.5	18521.4	14203.8	9949.9	7375.0	6160.4	5963.8
65°	4425.0	4501.5	6063.9	8808.2	14278.5	18455.8	13602.9	8722.6	6107.6	4714.6	4496.0
67.5°	1671.7	1680.8	2238.0	4390.4	10164.8	15879.1	10381.5	4745.5	2573.1	1861.1	1793.7
70°	693.8	706.5	821.3	1476.8	4368.6	10195.8	5005.9	1711.7	941.5	763.0	752.1
72.5°	508.1	515.3	549.9	655.6	1343.9	4186.5	1646.2	726.6	551.8	493.5	488.0
75°	398.8	402.4	427.9	482.6	626.4	1160.0	684.7	499.0	420.7	378.8	375.1
77.5°	304.1	313.2	331.4	367.8	420.7	549.9	453.4	373.3	324.1	289.5	284.1
80°	209.4	220.3	254.9	269.5	282.3	356.9	309.6	282.3	253.1	211.2	198.5
82.5°	129.3	136.6	171.2	183.9	178.5	200.3	198.5	202.1	180.3	131.1	122.0
85°	67.4	71.0	92.9	96.5	89.2	81.9	102.0	118.4	111.1	74.7	72.8
87.5°	14.6	16.4	20.0	18.2	20.0	20.0	25.5	38.2	40.1	25.5	23.7
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)