

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: P458485

Luminaire Tested: **GALN-SA9D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458485
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-SA9D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58160 lumens
Efficiency: N/A
Efficacy: 105.4 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

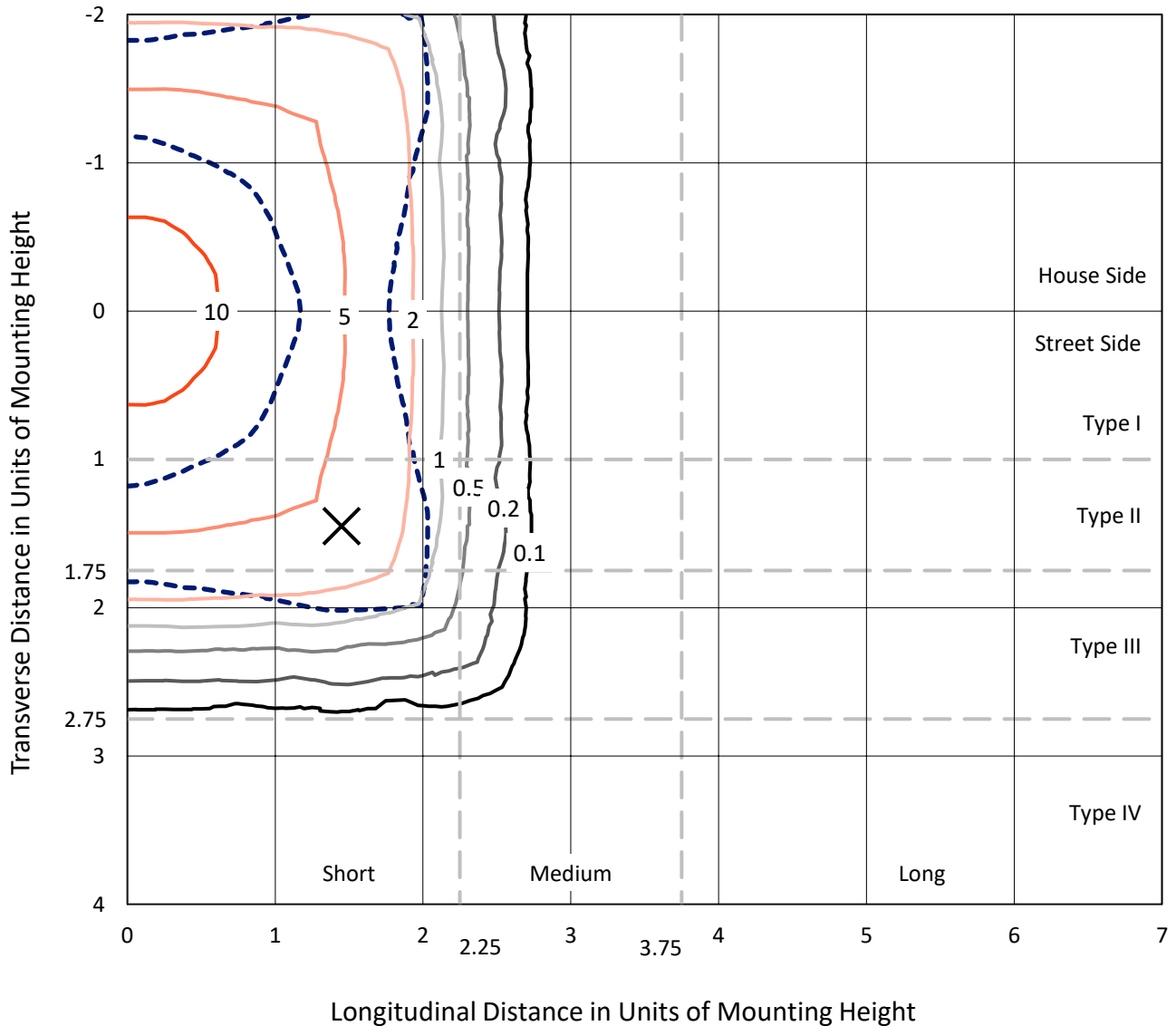
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

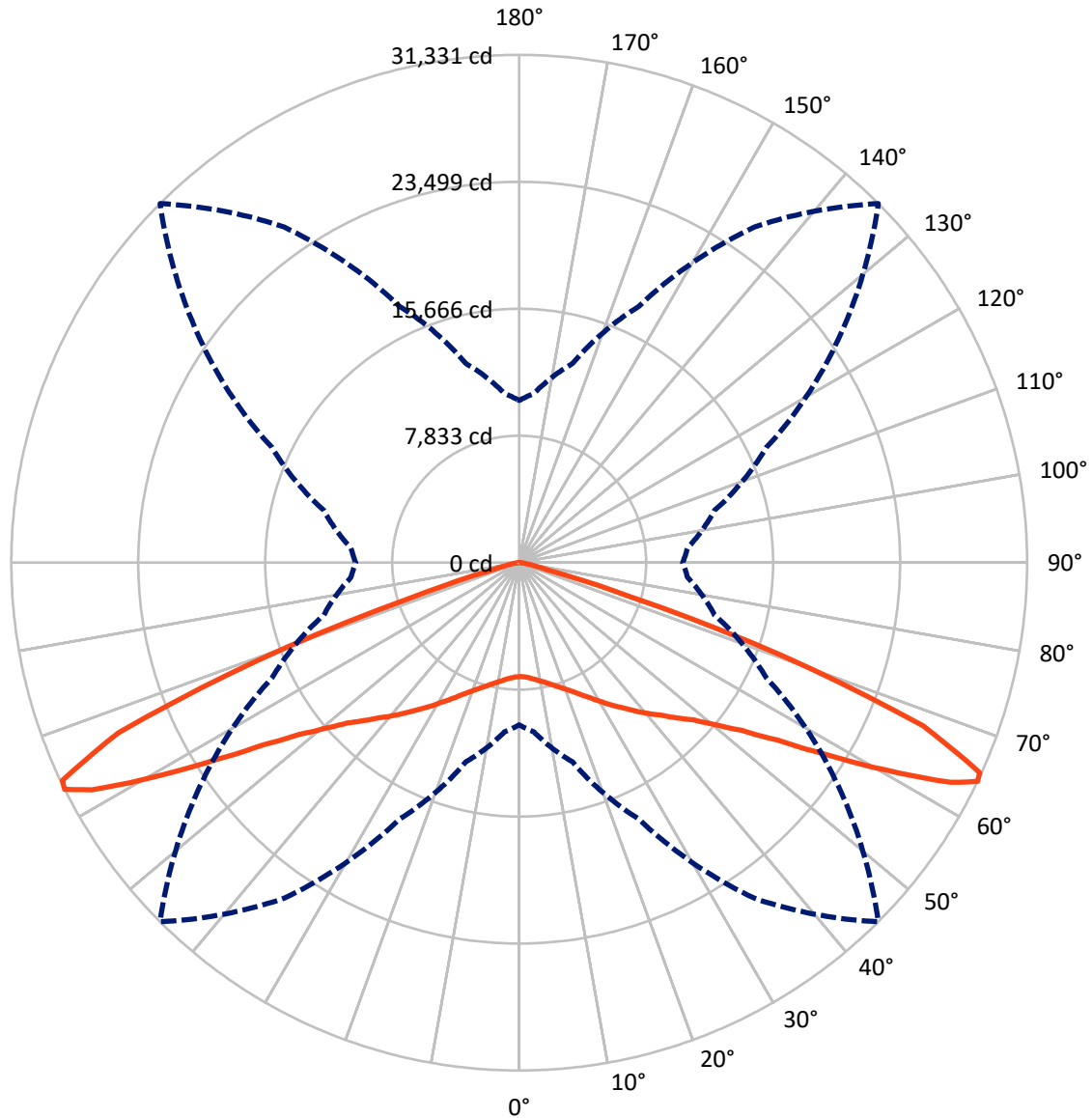
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	29080.0	0.0	29080.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29080.0	0.0	29080.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	58160.0	0.0	58160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.6	1.2
10°-20°	2227.7	3.8
20°-30°	4209.7	7.2
30°-40°	6971.7	12.0
40°-50°	10883.9	18.7
50°-60°	16826.2	28.9
60°-70°	14509.1	24.9
70°-80°	1644.3	2.8
80°-90°	197.0	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°	58160.0	100.0
0°-180°	58160.0	100.0

Coefficient of Utilization



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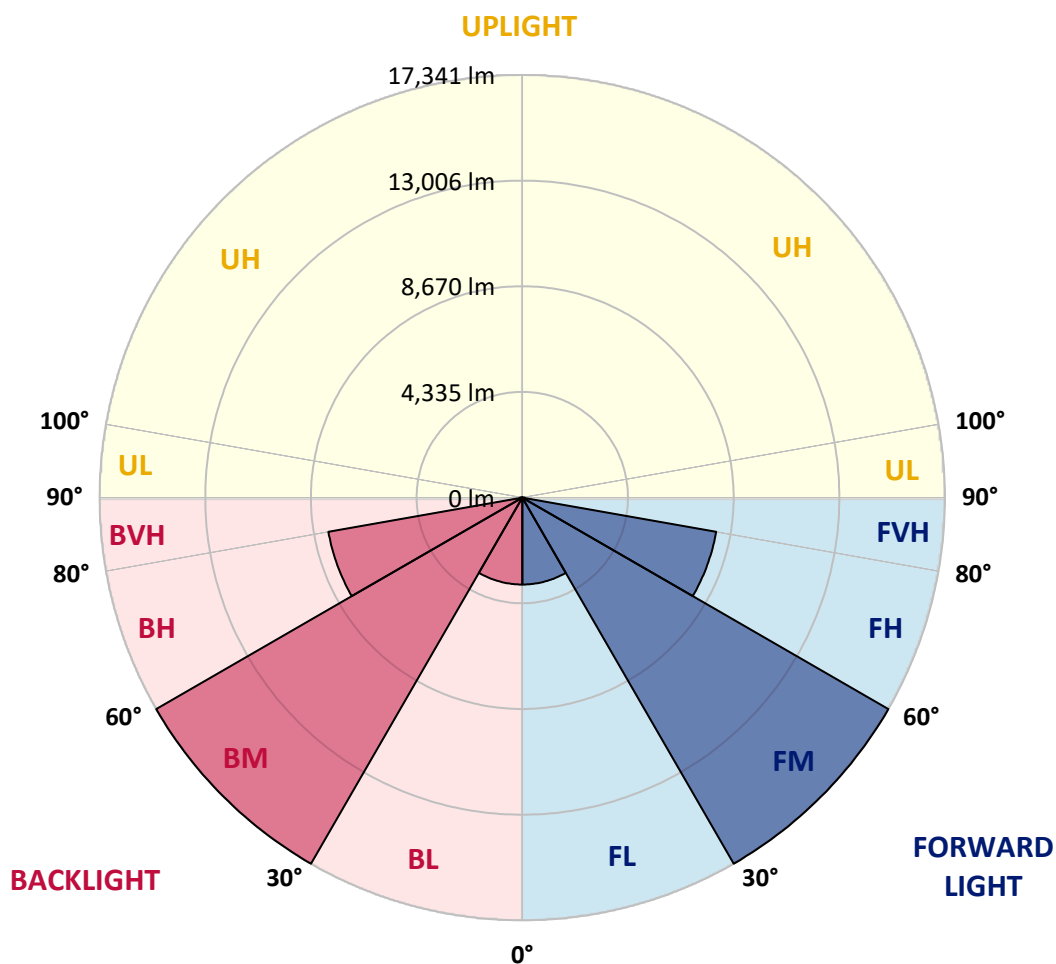
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3564.0	6.1			
FM	(30°-60°)	17340.9	29.8			
FH	(60°-80°)	8076.7	13.9			G4/12000
FVH	(80°-90°)	98.5	0.2			G1/100
BL	(0°-30°)	3564.0	6.1	B4/5000		
BM	(30°-60°)	17340.9	29.8	B5		
BH	(60°-80°)	8076.7	13.9	B5		G4/12000
BVH	(80°-90°)	98.5	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7029.6	7029.6	7029.6	7029.6	7029.6	7029.6	7029.6	7029.6	7029.6	7029.6	7029.6
2.5°	7057.3	7072.7	7060.4	7057.3	7054.3	7054.3	7054.3	7057.3	7069.7	7078.9	7072.7
5°	7146.7	7159.0	7152.8	7149.8	7146.7	7149.8	7143.6	7140.5	7149.8	7149.8	7146.7
7.5°	7257.6	7273.0	7266.8	7273.0	7276.1	7279.1	7263.7	7251.4	7248.3	7257.6	7251.4
10°	7408.5	7420.8	7423.9	7427.0	7433.2	7430.1	7411.6	7390.0	7386.9	7383.9	7380.8
12.5°	7577.9	7587.2	7590.3	7602.6	7611.8	7614.9	7593.3	7574.9	7544.1	7550.2	7537.9
15°	7768.9	7787.4	7784.3	7802.8	7827.5	7833.6	7812.1	7781.2	7753.5	7738.1	7728.9
17.5°	8003.0	8015.4	8009.2	8027.7	8058.5	8073.9	8055.4	8015.4	7987.6	7953.8	7935.3
20°	8280.3	8301.8	8308.0	8308.0	8335.7	8351.1	8323.4	8311.1	8268.0	8243.3	8227.9
22.5°	8594.5	8603.7	8622.2	8640.7	8668.4	8662.3	8653.0	8634.5	8594.5	8572.9	8548.3
25°	8948.7	8958.0	9004.2	9044.2	9053.5	9047.3	9035.0	9025.8	8988.8	8939.5	8921.0
27.5°	9361.5	9380.0	9441.6	9478.6	9478.6	9481.7	9457.0	9487.8	9407.7	9349.2	9343.0
30°	9879.0	9891.4	9943.7	9980.7	9962.2	9946.8	9940.7	9971.5	9885.2	9780.5	9755.8
32.5°	10390.4	10433.5	10479.7	10559.8	10495.1	10467.4	10461.2	10482.8	10384.2	10267.2	10233.3
35°	10938.7	10969.5	11055.8	11123.5	11065.0	11000.3	11028.1	11095.8	10978.8	10821.7	10815.5
37.5°	11545.6	11573.3	11684.2	11755.0	11711.9	11601.0	11647.2	11727.3	11610.3	11416.2	11376.1
40°	12177.1	12235.6	12374.2	12448.1	12377.3	12229.4	12315.7	12401.9	12297.2	12072.3	11983.0
42.5°	12885.6	12978.0	13178.2	13215.2	13079.6	12879.4	13030.4	13169.0	13095.0	12836.3	12802.4
45°	13714.2	13769.7	14016.1	14096.2	13908.3	13658.8	13846.7	14099.3	14043.8	13745.0	13680.3
47.5°	14641.4	14693.8	14949.5	15069.6	14832.4	14496.7	14835.5	15165.1	15131.2	14810.9	14780.1
50°	15738.1	15750.4	16104.7	16240.2	16003.0	15713.4	16015.3	16425.0	16289.5	15879.8	15873.6
52.5°	16939.5	16954.9	17401.5	17663.4	17530.9	17204.4	17561.7	17811.2	17466.2	16930.2	16890.2
55°	17980.7	18057.7	18667.6	19363.8	19545.5	19308.3	19416.2	19299.1	18448.9	17697.3	17580.2
57.5°	18405.8	18556.7	19483.9	20783.9	21966.8	22317.9	21486.2	20371.1	18840.1	17777.3	17663.4
60°	17367.6	17530.9	18969.5	21436.9	24455.8	25980.6	23642.5	20552.8	17949.9	16455.8	16277.2
62.5°	13908.3	13954.5	16070.8	19899.8	25906.7	29855.8	24551.3	19003.4	15359.2	13329.2	13258.3
64°	10008.4	10482.8	12725.4	17447.7	25272.1	31331.4	24027.6	16831.6	12475.9	10421.2	10088.5
65°	7485.5	7614.9	10257.9	14900.2	24153.9	31220.5	23011.1	14755.4	10331.9	7975.3	7605.7
67.5°	2827.9	2843.3	3785.9	7427.0	17195.1	26861.6	17561.7	8027.7	4352.7	3148.2	3034.3
70°	1173.7	1195.2	1389.3	2498.3	7390.0	17247.5	8468.2	2895.6	1592.6	1290.7	1272.2
72.5°	859.4	871.8	930.3	1109.0	2273.4	7082.0	2784.7	1229.1	933.4	834.8	825.6
75°	674.6	680.8	723.9	816.3	1059.7	1962.3	1158.3	844.0	711.6	640.7	634.6
77.5°	514.4	529.8	560.6	622.3	711.6	930.3	767.0	631.5	548.3	489.8	480.6
80°	354.3	372.7	431.3	455.9	477.5	603.8	523.7	477.5	428.2	357.3	335.8
82.5°	218.7	231.0	289.6	311.1	301.9	338.9	335.8	341.9	305.0	221.8	206.4
85°	114.0	120.1	157.1	163.3	150.9	138.6	172.5	200.2	187.9	126.3	123.2
87.5°	24.6	27.7	33.9	30.8	33.9	33.9	43.1	64.7	67.8	43.1	40.0
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)