

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: FAIL-SAFE

Report Number: P580278

Luminaire Tested: **HVSL12-8-LD4-2HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: HVSL12-8-LD4-2HI-35-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

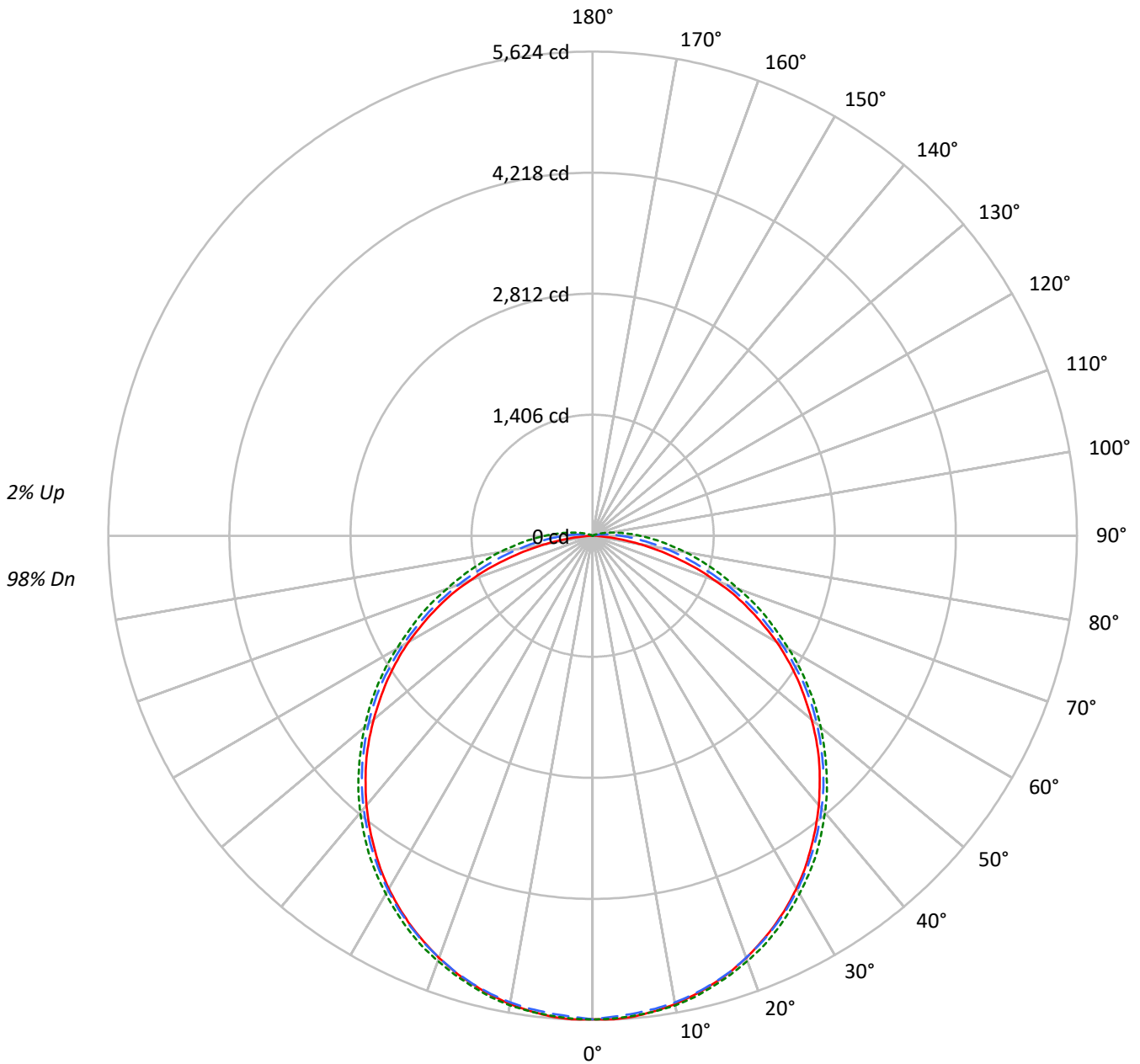
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16983.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 182.4
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101				98																
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83				81																
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69				67																
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58				56																
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50				47																
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43				41																
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38				36																
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34				32																
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30				28																
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27				25																
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25				23																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7558	7558	7558
5°	7556	7436	7449
10°	7520	7349	7351
15°	7469	7246	7221
20°	7414	7124	7095
25°	7345	6998	6964
30°	7265	6860	6808
35°	7160	6705	6655
40°	7051	6540	6468
45°	6935	6358	6263
50°	6780	6142	6040
55°	6615	5902	5790
60°	6417	5575	5491
65°	6081	5206	5202
70°	5587	4761	4859
75°	4873	4273	4574
80°	3780	3818	4362
85°	2179	3405	4242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.5	3.1
10°-20°	1524.7	9.0
20°-30°	2313.4	13.6
30°-40°	2797.4	16.5
40°-50°	2918.8	17.2
50°-60°	2668.7	15.7
60°-70°	2080.4	12.2
70°-80°	1301.4	7.7
80°-90°	591.1	3.5
90°-100°	198.1	1.2
100°-110°	49.7	0.3
110°-120°	7.8	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°-30°	4369.7	25.7
0°-40°	7167.0	42.2
0°-60°	12754.5	75.1
0°-90°	16727.3	98.5
90°-120°	255.7	1.5
90°-150°	255.7	1.5
90°-180°	256.0	1.5
0°-180°	16983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5617	5617	5617	5617	5617	
5°	5605	5594	5569	5596	5596	532
15°	5392	5401	5387	5417	5416	1522
25°	4996	5000	5005	5048	5056	2302
35°	4423	4442	4461	4506	4524	2768
45°	3721	3754	3784	3821	3840	2867
55°	2904	2938	2992	3036	3056	2594
65°	1996	2030	2100	2184	2218	1974
75°	1010	1072	1229	1376	1427	1077
85°	175	323	555	734	798	221
90°	1	120	327	491	551	7
95°	1	32	170	307	355	1
105°	3	4	28	82	110	3
115°	4	4	5	15	21	3
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5617.0	5617.0	5617.0	5617.0	5617.0
2.5°	5623.6	5615.6	5590.5	5615.6	5614.3
5°	5605.0	5594.4	5569.3	5595.8	5595.8
7.5°	5568.0	5564.0	5541.5	5571.9	5571.9
10°	5524.3	5522.9	5504.4	5537.5	5538.8
12.5°	5463.4	5468.6	5451.4	5483.2	5487.2
15°	5391.8	5401.1	5386.6	5417.0	5415.7
17.5°	5313.7	5319.0	5308.4	5342.9	5341.5
20°	5217.1	5223.7	5215.7	5251.5	5255.5
22.5°	5109.8	5119.1	5117.8	5154.8	5165.4
25°	4995.9	4999.9	5005.2	5047.6	5055.5
27.5°	4870.1	4876.8	4886.0	4924.4	4932.4
30°	4732.4	4743.0	4753.6	4793.3	4803.9
32.5°	4586.8	4597.4	4610.6	4662.3	4667.6
35°	4422.6	4442.4	4461.0	4506.0	4524.5
37.5°	4258.4	4283.6	4300.8	4348.4	4363.0
40°	4084.9	4110.1	4137.9	4188.2	4197.5
42.5°	3903.5	3932.7	3965.8	4010.8	4026.7
45°	3720.8	3753.9	3784.4	3821.4	3840.0
47.5°	3523.5	3556.6	3593.7	3636.1	3648.0
50°	3319.6	3358.0	3397.7	3437.4	3458.6
52.5°	3110.4	3156.7	3201.7	3244.1	3264.0
55°	2903.8	2938.2	2992.5	3036.2	3056.1
57.5°	2689.3	2718.4	2767.4	2838.9	2849.5
60°	2470.8	2497.3	2547.6	2605.9	2629.7
62.5°	2229.8	2265.6	2318.5	2392.7	2413.9
65°	1995.5	2029.9	2100.1	2183.5	2217.9
67.5°	1769.0	1781.0	1871.0	1958.4	2014.0
70°	1501.6	1546.6	1651.2	1758.4	1800.8
72.5°	1271.2	1316.2	1431.4	1557.2	1610.1
75°	1010.3	1072.5	1228.8	1375.8	1427.4
77.5°	781.2	850.1	1043.4	1191.7	1251.3
80°	545.5	652.8	863.3	1030.2	1095.1
82.5°	342.9	475.4	700.5	875.2	932.2
85°	174.8	323.1	554.8	733.6	798.4
87.5°	46.3	209.2	431.7	602.5	668.7
90°	1.3	120.5	327.1	491.3	550.8
92.5°	1.3	67.5	243.6	390.6	451.5
95°	1.3	31.8	169.5	307.2	354.9
97.5°	1.3	13.2	116.5	231.7	279.4
100°	1.3	6.6	74.2	168.2	209.2
102.5°	2.6	4.0	46.3	120.5	153.6
105°	2.6	4.0	27.8	82.1	109.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.0	4.0	5.3	22.5	33.1
115°	4.0	4.0	5.3	14.6	21.2
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	2.6	4.0	15.9	55.6	75.5
110°	4.0	4.0	9.3	34.4	50.3



(END OF REPORT)