

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: P580533

Luminaire Tested: **HVSL4-3-LD4-1STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580533
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: HVSL4-3-LD4-1STD-35-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

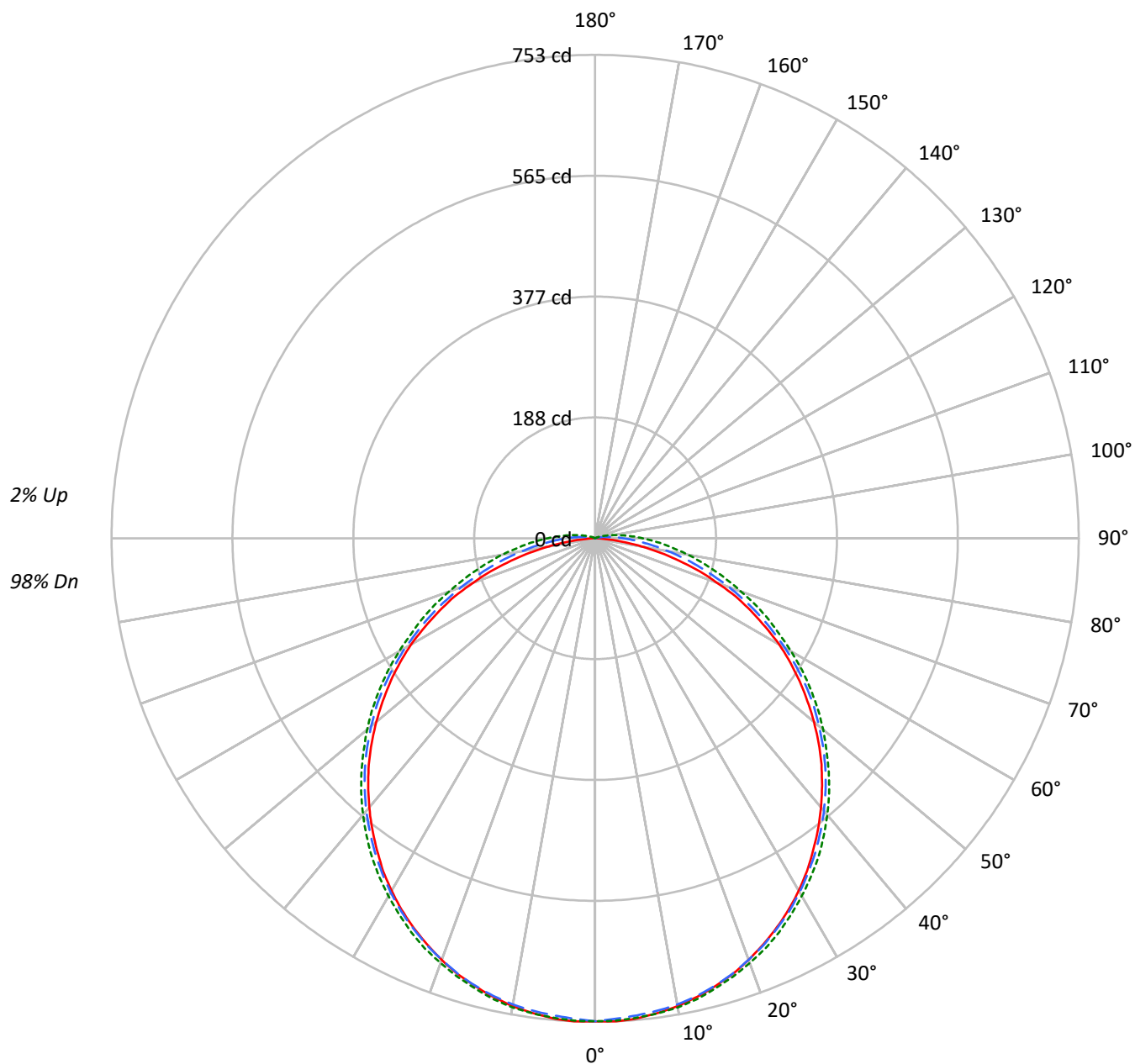
Lumens per Lamp: N/A
Luminaire Lumens: 2275.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.5
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	8099	8099	8099
5°	8073	7793	7760
10°	8010	7538	7453
15°	7931	7275	7129
20°	7847	7002	6822
25°	7747	6730	6522
30°	7634	6451	6206
35°	7493	6158	5899
40°	7346	5857	5566
45°	7187	5540	5220
50°	6984	5190	4861
55°	6763	4819	4482
60°	6500	4372	4064
65°	6083	3888	3651
70°	5491	3348	3198
75°	4660	2776	2774
80°	3445	2220	2370
85°	1767	1671	1968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.1
10°-20°	204.2	9.0
20°-30°	309.9	13.6
30°-40°	374.7	16.5
40°-50°	391.0	17.2
50°-60°	357.5	15.7
60°-70°	278.7	12.2
70°-80°	174.3	7.7
80°-90°	79.2	3.5
90°-100°	26.5	1.2
100°-110°	6.6	0.3
110°-120°	1.0	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°-30°	585.4	25.7
0°-40°	960.1	42.2
0°-60°	1708.6	75.1
0°-90°	2240.7	98.5
90°-120°	34.2	1.5
90°-150°	34.2	1.5
90°-180°	34.0	1.5
0°-180°	2275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	751	749	746	750	750	71
15°	722	724	722	726	726	204
25°	669	670	670	676	677	308
35°	592	595	598	604	606	371
45°	498	503	507	512	514	384
55°	389	394	401	407	409	348
65°	267	272	281	292	297	264
75°	135	144	165	184	191	144
85°	23	43	74	98	107	30
90°	0	16	44	66	74	1
95°	0	4	23	41	48	0
105°	0	0	4	11	15	0
115°	0	0	1	2	3	0
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.4	752.4	752.4	752.4	752.4
2.5°	753.3	752.3	748.9	752.3	752.1
5°	750.8	749.4	746.0	749.6	749.6
7.5°	745.9	745.3	742.3	746.4	746.4
10°	740.0	739.8	737.4	741.8	742.0
12.5°	731.9	732.6	730.3	734.5	735.0
15°	722.3	723.5	721.6	725.6	725.5
17.5°	711.8	712.5	711.1	715.7	715.5
20°	698.9	699.8	698.7	703.5	704.0
22.5°	684.5	685.7	685.6	690.5	691.9
25°	669.2	669.8	670.5	676.2	677.2
27.5°	652.4	653.3	654.5	659.7	660.7
30°	633.9	635.4	636.8	642.1	643.5
32.5°	614.4	615.9	617.6	624.5	625.3
35°	592.4	595.1	597.6	603.6	606.1
37.5°	570.4	573.8	576.1	582.5	584.5
40°	547.2	550.6	554.3	561.0	562.3
42.5°	522.9	526.8	531.2	537.3	539.4
45°	498.4	502.9	506.9	511.9	514.4
47.5°	472.0	476.4	481.4	487.1	488.7
50°	444.7	449.8	455.1	460.5	463.3
52.5°	416.7	422.9	428.9	434.6	437.2
55°	389.0	393.6	400.9	406.7	409.4
57.5°	360.3	364.2	370.7	380.3	381.7
60°	331.0	334.5	341.3	349.1	352.3
62.5°	298.7	303.5	310.6	320.5	323.4
65°	267.3	271.9	281.3	292.5	297.1
67.5°	237.0	238.6	250.6	262.3	269.8
70°	201.1	207.2	221.2	235.6	241.2
72.5°	170.3	176.3	191.7	208.6	215.7
75°	135.3	143.7	164.6	184.3	191.2
77.5°	104.7	113.9	139.8	159.6	167.6
80°	73.1	87.4	115.6	138.0	146.7
82.5°	45.9	63.7	93.8	117.2	124.9
85°	23.4	43.3	74.3	98.3	107.0
87.5°	6.2	28.0	57.8	80.7	89.6
90°	0.2	16.1	43.8	65.8	73.8
92.5°	0.2	9.0	32.6	52.3	60.5
95°	0.2	4.3	22.7	41.2	47.5
97.5°	0.2	1.8	15.6	31.0	37.4
100°	0.2	0.9	9.9	22.5	28.0
102.5°	0.4	0.5	6.2	16.1	20.6
105°	0.4	0.5	3.7	11.0	14.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.0	4.4
115°	0.5	0.5	0.7	2.0	2.8
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°	0.4	0.5	2.1	7.4	10.1
110°	0.5	0.5	1.2	4.6	6.7



(END OF REPORT)