

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: P580547

Luminaire Tested: **HVSL4-3-LD4-2LO-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580547
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-LD4-2LO-30-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

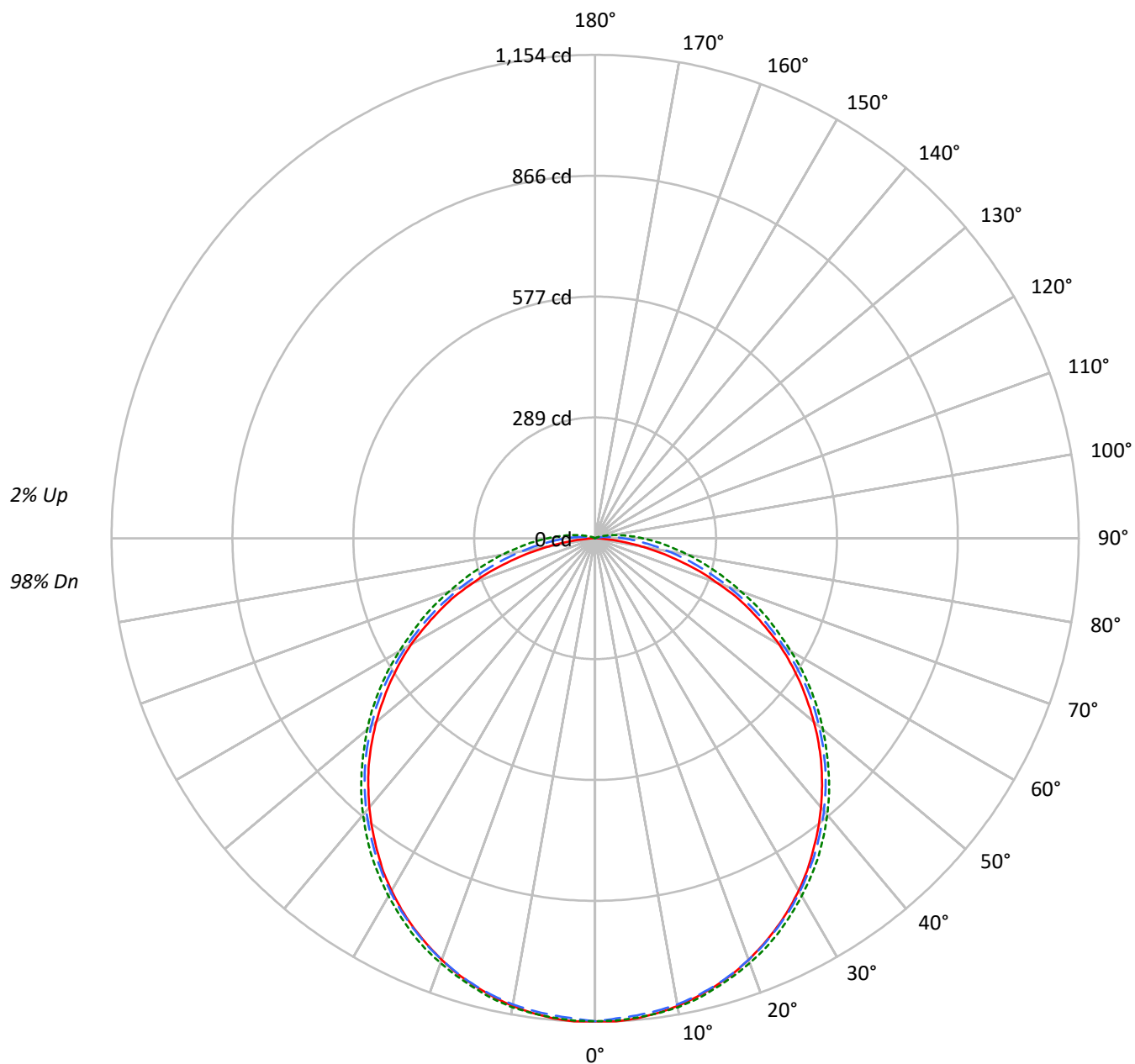
Lumens per Lamp: N/A
Luminaire Lumens: 3486.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.7
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°	12411	12411	12411
5°	12371	11942	11890
10°	12273	11550	11419
15°	12153	11148	10923
20°	12024	10729	10454
25°	11872	10313	9994
30°	11698	9885	9510
35°	11482	9436	9038
40°	11257	8976	8528
45°	11013	8489	7998
50°	10702	7954	7448
55°	10362	7384	6867
60°	9960	6698	6227
65°	9322	5959	5595
70°	8415	5129	4900
75°	7144	4253	4251
80°	5279	3402	3632
85°	2712	2562	3014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.1
10°-20°	313.0	9.0
20°-30°	474.9	13.6
30°-40°	574.2	16.5
40°-50°	599.1	17.2
50°-60°	547.8	15.7
60°-70°	427.0	12.2
70°-80°	267.1	7.7
80°-90°	121.3	3.5
90°-100°	40.7	1.2
100°-110°	10.2	0.3
110°-120°	1.6	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°	896.9	25.7
0°-40°	1471.1	42.2
0°-60°	2618.1	75.1
0°-90°	3433.5	98.5
90°-120°	52.5	1.5
90°-150°	52.5	1.5
90°-180°	52.0	1.5
0°-180°	3486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1150	1148	1143	1149	1149	109
15°	1107	1109	1106	1112	1112	312
25°	1026	1026	1027	1036	1038	473
35°	908	912	916	925	929	568
45°	764	770	777	784	788	589
55°	596	603	614	623	627	532
65°	410	417	431	448	455	405
75°	207	220	252	282	293	221
85°	36	66	114	151	164	45
90°	0	25	67	101	113	1
95°	0	6	35	63	73	0
105°	0	1	6	17	23	1
115°	1	1	1	3	4	1
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°	1153.0	1153.0	1153.0	1153.0	1153.0
2.5°	1154.3	1152.7	1147.5	1152.7	1152.4
5°	1150.5	1148.3	1143.2	1148.6	1148.6
7.5°	1142.9	1142.1	1137.5	1143.7	1143.7
10°	1133.9	1133.7	1129.9	1136.7	1136.9
12.5°	1121.4	1122.5	1119.0	1125.5	1126.3
15°	1106.8	1108.7	1105.7	1111.9	1111.6
17.5°	1090.7	1091.8	1089.6	1096.7	1096.4
20°	1070.9	1072.2	1070.6	1077.9	1078.8
22.5°	1048.9	1050.8	1050.5	1058.1	1060.3
25°	1025.5	1026.3	1027.4	1036.1	1037.7
27.5°	999.7	1001.0	1002.9	1010.8	1012.4
30°	971.4	973.6	975.7	983.9	986.1
32.5°	941.5	943.7	946.4	957.0	958.1
35°	907.8	911.9	915.7	924.9	928.7
37.5°	874.1	879.3	882.8	892.6	895.6
40°	838.5	843.7	849.4	859.7	861.6
42.5°	801.3	807.2	814.0	823.3	826.5
45°	763.7	770.5	776.8	784.4	788.2
47.5°	723.2	730.0	737.7	746.4	748.8
50°	681.4	689.3	697.4	705.6	709.9
52.5°	638.4	648.0	657.2	665.9	670.0
55°	596.0	603.1	614.3	623.2	627.3
57.5°	552.0	558.0	568.1	582.7	584.9
60°	507.2	512.6	522.9	534.9	539.8
62.5°	457.7	465.0	475.9	491.1	495.5
65°	409.6	416.7	431.1	448.2	455.3
67.5°	363.1	365.6	384.0	402.0	413.4
70°	308.2	317.5	338.9	360.9	369.6
72.5°	260.9	270.2	293.8	319.6	330.5
75°	207.4	220.2	252.2	282.4	293.0
77.5°	160.4	174.5	214.2	244.6	256.8
80°	112.0	134.0	177.2	211.5	224.8
82.5°	70.4	97.6	143.8	179.7	191.3
85°	35.9	66.3	113.9	150.6	163.9
87.5°	9.5	42.9	88.6	123.7	137.3
90°	0.3	24.7	67.1	100.8	113.1
92.5°	0.3	13.9	50.0	80.2	92.7
95°	0.3	6.5	34.8	63.1	72.8
97.5°	0.3	2.7	23.9	47.6	57.3
100°	0.3	1.4	15.2	34.5	42.9
102.5°	0.5	0.8	9.5	24.7	31.5
105°	0.5	0.8	5.7	16.9	22.6



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CATALOG NUMBER: HVSL4-3-LD4-2LO-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.6	6.8
115°	0.8	0.8	1.1	3.0	4.3
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°	0.5	0.8	3.3	11.4	15.5
110°	0.8	0.8	1.9	7.1	10.3



(END OF REPORT)