

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: P580585

Luminaire Tested: **HVSL4-4-LD4-1STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580585
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: HVSL4-4-LD4-1STD-50-UNV-O-EDD-90
Description: 4 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

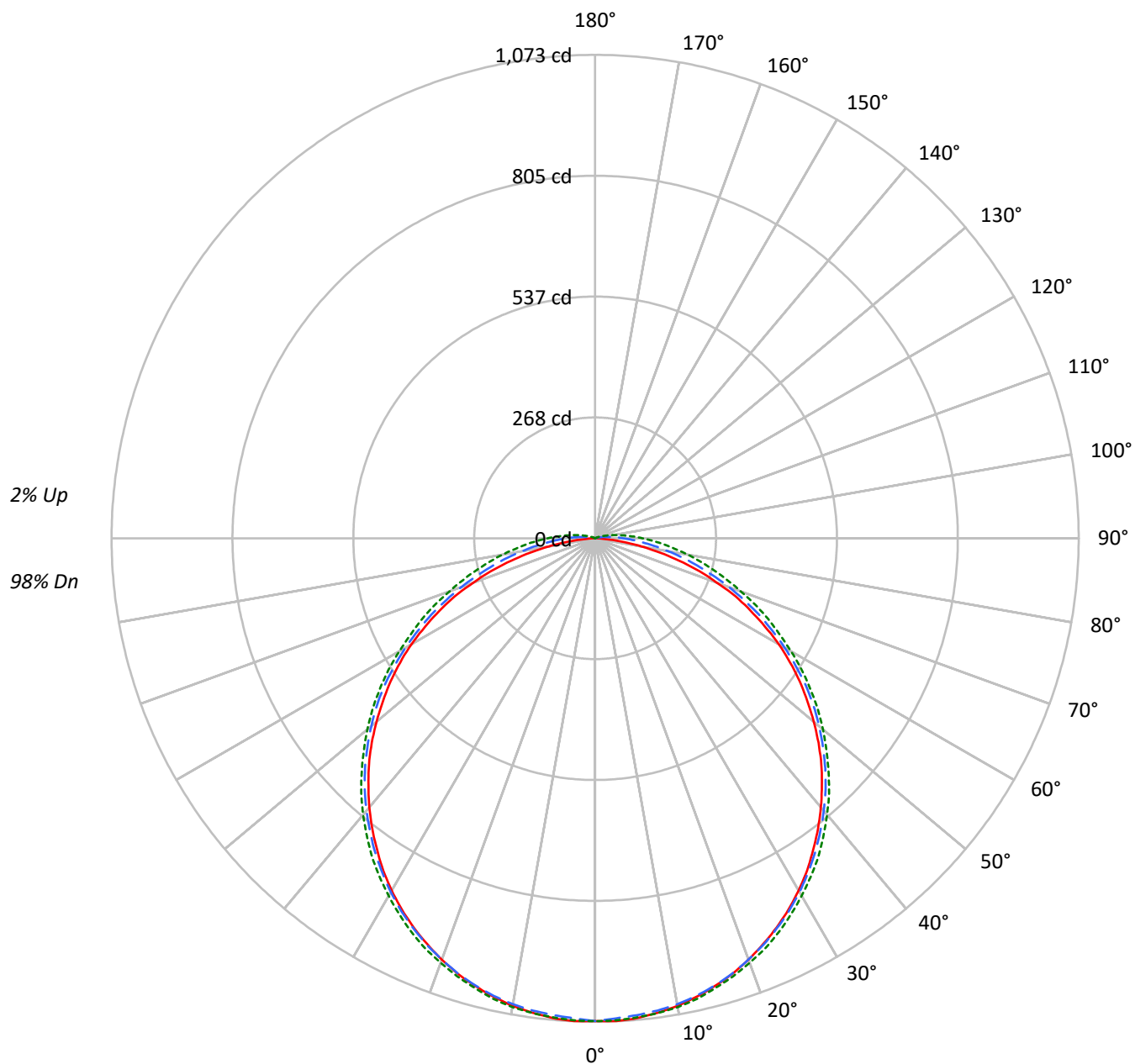
Lumens per Lamp: N/A
Luminaire Lumens: 3240.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 32.7
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

TEST NUMBER: P580585

CATALOG NUMBER: HVSL4-4-LD4-1STD-50-UNV-O-EDD-90

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°	8651	8651	8651
5°	8634	8331	8289
10°	8576	8063	7960
15°	8503	7789	7615
20°	8423	7503	7287
25°	8328	7217	6967
30°	8218	6923	6629
35°	8079	6614	6301
40°	7935	6295	5945
45°	7781	5960	5576
50°	7577	5589	5192
55°	7359	5194	4787
60°	7099	4717	4341
65°	6676	4201	3900
70°	6068	3622	3416
75°	5202	3009	2963
80°	3914	2413	2532
85°	2089	1822	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.1
10°-20°	290.9	9.0
20°-30°	441.4	13.6
30°-40°	533.7	16.5
40°-50°	556.9	17.2
50°-60°	509.1	15.7
60°-70°	396.9	12.2
70°-80°	248.3	7.7
80°-90°	112.7	3.5
90°-100°	37.8	1.2
100°-110°	9.5	0.3
110°-120°	1.5	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°	833.6	25.7
0°-40°	1367.3	42.2
0°-60°	2433.3	75.1
0°-90°	3191.2	98.5
90°-120°	48.8	1.5
90°-150°	48.8	1.5
90°-180°	49.0	1.5
0°-180°	3240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1069	1067	1062	1068	1068	102
15°	1029	1030	1028	1034	1033	290
25°	953	954	955	963	964	439
35°	844	848	851	860	863	528
45°	710	716	722	729	733	547
55°	554	561	571	579	583	495
65°	381	387	401	417	423	377
75°	193	205	234	262	272	205
85°	33	62	106	140	152	42
90°	0	23	62	94	105	1
95°	0	6	32	59	68	0
105°	0	1	5	16	21	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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CATALOG NUMBER: HVSL4-4-LD4-1STD-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1072.9	1071.3	1066.5	1071.3	1071.1
5°	1069.3	1067.3	1062.5	1067.6	1067.6
7.5°	1062.2	1061.5	1057.2	1063.0	1063.0
10°	1053.9	1053.7	1050.1	1056.4	1056.7
12.5°	1042.3	1043.3	1040.0	1046.1	1046.8
15°	1028.7	1030.4	1027.6	1033.5	1033.2
17.5°	1013.7	1014.8	1012.7	1019.3	1019.1
20°	995.3	996.6	995.1	1001.9	1002.6
22.5°	974.8	976.6	976.4	983.4	985.5
25°	953.1	953.9	954.9	963.0	964.5
27.5°	929.1	930.4	932.2	939.5	941.0
30°	902.8	904.9	906.9	914.5	916.5
32.5°	875.1	877.1	879.6	889.5	890.5
35°	843.7	847.5	851.1	859.7	863.2
37.5°	812.4	817.2	820.5	829.6	832.4
40°	779.3	784.1	789.4	799.0	800.8
42.5°	744.7	750.3	756.6	765.2	768.2
45°	709.9	716.2	722.0	729.0	732.6
47.5°	672.2	678.5	685.6	693.7	696.0
50°	633.3	640.6	648.2	655.8	659.8
52.5°	593.4	602.2	610.8	618.9	622.7
55°	554.0	560.6	570.9	579.2	583.0
57.5°	513.1	518.6	528.0	541.6	543.6
60°	471.4	476.4	486.0	497.1	501.7
62.5°	425.4	432.2	442.3	456.5	460.5
65°	380.7	387.3	400.6	416.6	423.1
67.5°	337.5	339.8	356.9	373.6	384.2
70°	286.5	295.1	315.0	335.5	343.6
72.5°	242.5	251.1	273.1	297.1	307.2
75°	192.7	204.6	234.4	262.5	272.3
77.5°	149.0	162.2	199.1	227.4	238.7
80°	104.1	124.5	164.7	196.5	208.9
82.5°	65.4	90.7	133.6	167.0	177.8
85°	33.3	61.6	105.8	139.9	152.3
87.5°	8.8	39.9	82.4	114.9	127.6
90°	0.3	23.0	62.4	93.7	105.1
92.5°	0.3	12.9	46.5	74.5	86.1
95°	0.3	6.1	32.3	58.6	67.7
97.5°	0.3	2.5	22.2	44.2	53.3
100°	0.3	1.3	14.1	32.1	39.9
102.5°	0.5	0.8	8.8	23.0	29.3
105°	0.5	0.8	5.3	15.7	21.0



TEST NUMBER: P580585

CATALOG NUMBER: HVSL4-4-LD4-1STD-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.0	4.3	6.3
115°	0.8	0.8	1.0	2.8	4.0
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	3.0	10.6	14.4
110°	0.8	0.8	1.8	6.6	9.6



(END OF REPORT)