

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: P580353

Luminaire Tested: **HVSL2-3-LD4-HI-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580353
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: HVSL2-3-LD4-HI-50-UNV-O-EDD-90
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

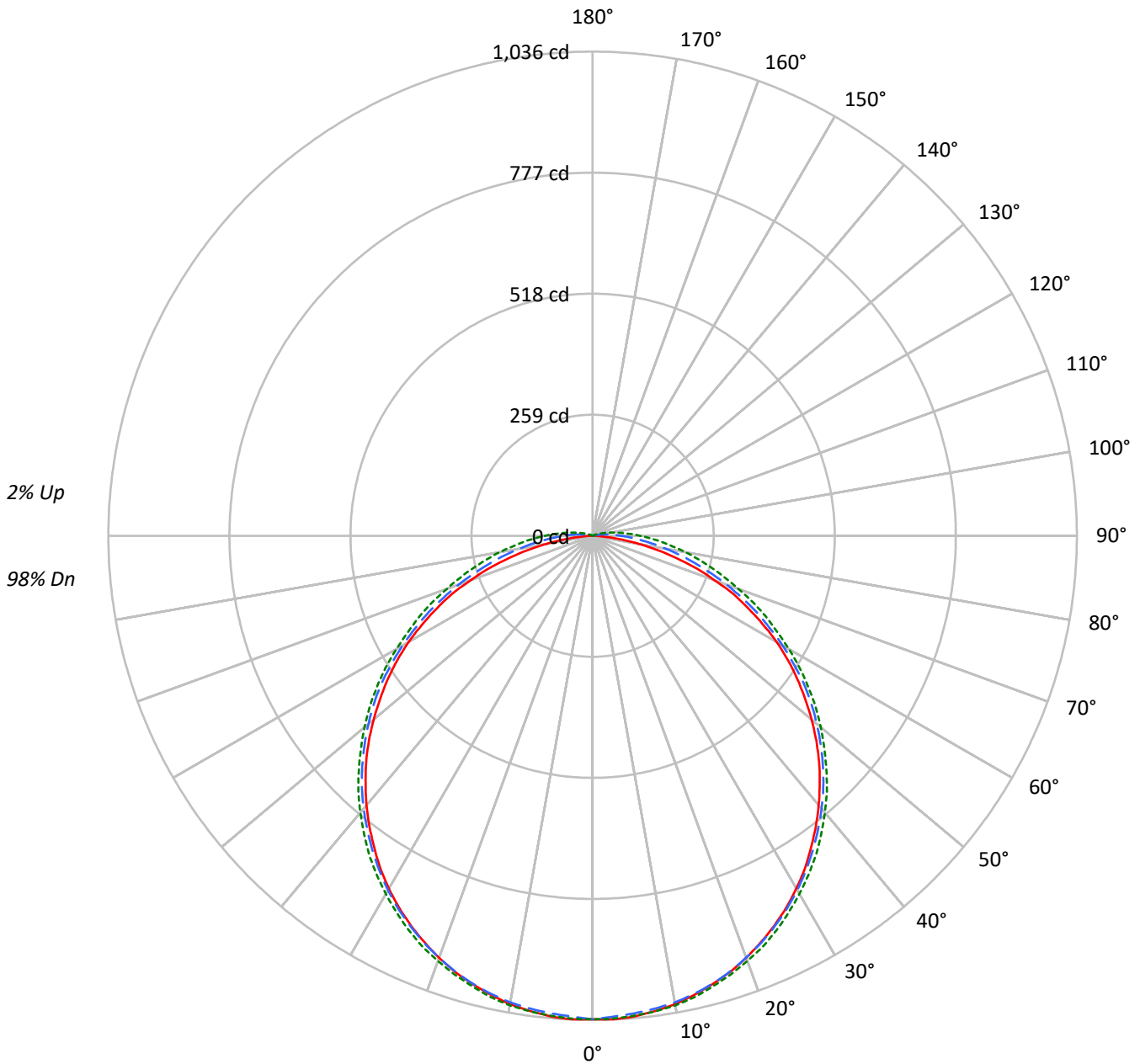
Lumens per Lamp: N/A
Luminaire Lumens: 3128.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 32.3
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: 25 FT

TEST NUMBER: P580353

CATALOG NUMBER: HVSL2-3-LD4-HI-50-UNV-O-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P580353

CATALOG NUMBER: HVSL2-3-LD4-HI-50-UNV-O-EDD-90

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°	22273	22273	22273
5°	22202	20809	20481
10°	22027	19584	18958
15°	21809	18425	17533
20°	21577	17307	16258
25°	21306	16244	15082
30°	20993	15208	13943
35°	20606	14180	12880
40°	20202	13168	11812
45°	19766	12150	10766
50°	19205	11091	9733
55°	18597	10013	8700
60°	17874	8810	7633
65°	16727	7575	6617
70°	15104	6273	5570
75°	12821	4972	4620
80°	9474	3766	3748
85°	4864	2648	2923



TEST NUMBER: P580353

CATALOG NUMBER: HVSL2-3-LD4-HI-50-UNV-O-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.1
10°-20°	280.8	9.0
20°-30°	426.1	13.6
30°-40°	515.2	16.5
40°-50°	537.6	17.2
50°-60°	491.5	15.7
60°-70°	383.2	12.2
70°-80°	239.7	7.7
80°-90°	108.9	3.5
90°-100°	36.5	1.2
100°-110°	9.1	0.3
110°-120°	1.4	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°	804.8	25.7
0°-40°	1320.0	42.2
0°-60°	2349.2	75.1
0°-90°	3080.9	98.5
90°-120°	47.1	1.5
90°-150°	47.1	1.5
90°-180°	47.0	1.5
0°-180°	3128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1032	1030	1026	1031	1031	98
15°	993	995	992	998	998	280
25°	920	921	922	930	931	424
35°	815	818	822	830	833	510
45°	685	691	697	704	707	528
55°	535	541	551	559	563	478
65°	368	374	387	402	408	364
75°	186	198	226	253	263	198
85°	32	60	102	135	147	41
90°	0	22	60	90	102	1
95°	0	6	31	57	65	0
105°	0	1	5	15	20	1
115°	1	1	1	3	4	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	0



TEST NUMBER: P580353

CATALOG NUMBER: HVSL2-3-LD4-HI-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1035.8	1034.3	1029.7	1034.3	1034.1
5°	1032.4	1030.4	1025.8	1030.7	1030.7
7.5°	1025.5	1024.8	1020.7	1026.3	1026.3
10°	1017.5	1017.2	1013.8	1019.9	1020.2
12.5°	1006.3	1007.2	1004.1	1009.9	1010.7
15°	993.1	994.8	992.1	997.7	997.5
17.5°	978.7	979.7	977.7	984.1	983.8
20°	960.9	962.1	960.7	967.2	968.0
22.5°	941.1	942.9	942.6	949.4	951.4
25°	920.2	920.9	921.9	929.7	931.1
27.5°	897.0	898.2	899.9	907.0	908.5
30°	871.6	873.6	875.5	882.9	884.8
32.5°	844.8	846.8	849.2	858.7	859.7
35°	814.6	818.2	821.6	829.9	833.3
37.5°	784.3	789.0	792.1	800.9	803.6
40°	752.4	757.0	762.1	771.4	773.1
42.5°	719.0	724.3	730.4	738.7	741.6
45°	685.3	691.4	697.0	703.8	707.3
47.5°	649.0	655.1	661.9	669.7	671.9
50°	611.4	618.5	625.8	633.1	637.0
52.5°	572.9	581.4	589.7	597.5	601.2
55°	534.8	541.2	551.2	559.2	562.9
57.5°	495.3	500.7	509.7	522.9	524.8
60°	455.1	460.0	469.2	480.0	484.4
62.5°	410.7	417.3	427.0	440.7	444.6
65°	367.5	373.9	386.8	402.2	408.5
67.5°	325.8	328.0	344.6	360.7	370.9
70°	276.6	284.9	304.1	323.9	331.7
72.5°	234.1	242.4	263.6	286.8	296.6
75°	186.1	197.5	226.3	253.4	262.9
77.5°	143.9	156.6	192.2	219.5	230.5
80°	100.5	120.2	159.0	189.7	201.7
82.5°	63.2	87.6	129.0	161.2	171.7
85°	32.2	59.5	102.2	135.1	147.1
87.5°	8.5	38.5	79.5	111.0	123.2
90°	0.2	22.2	60.2	90.5	101.5
92.5°	0.2	12.4	44.9	71.9	83.2
95°	0.2	5.9	31.2	56.6	65.4
97.5°	0.2	2.4	21.5	42.7	51.5
100°	0.2	1.2	13.7	31.0	38.5
102.5°	0.5	0.7	8.5	22.2	28.3
105°	0.5	0.7	5.1	15.1	20.2



TEST NUMBER: P580353

CATALOG NUMBER: HVSL2-3-LD4-HI-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	1.0	4.1	6.1
115°	0.7	0.7	1.0	2.7	3.9
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	0.7	2.9	10.2	13.9
110°	0.7	0.7	1.7	6.3	9.3



(END OF REPORT)