

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: P580347

Luminaire Tested: **HVSL2-3-LD4-HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580347
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-30-UNV-O-EDD-90
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

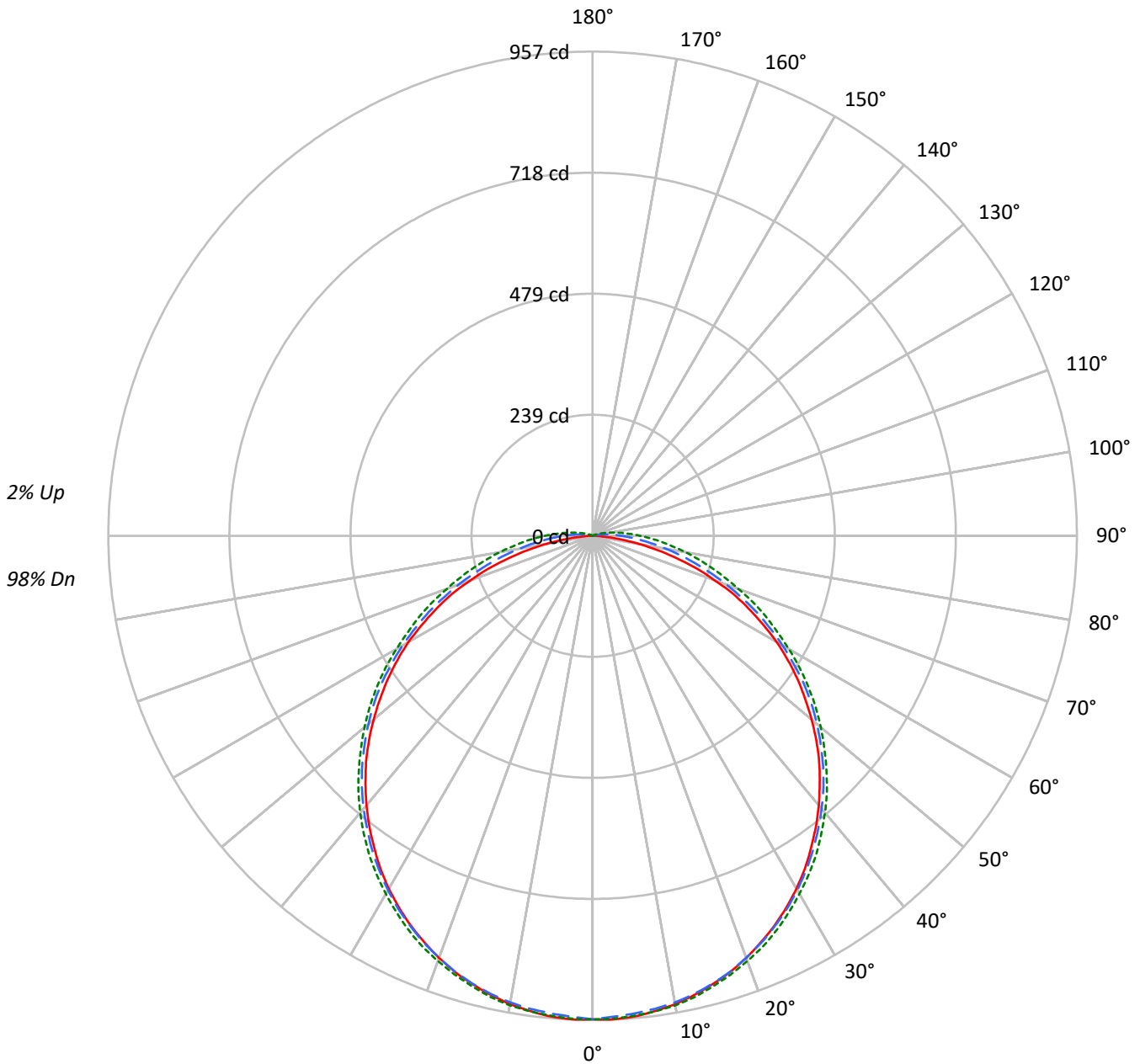
Lumens per Lamp: N/A
Luminaire Lumens: 2890.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 32.3
Input Voltage (V): NR
Input Current (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: P580347

CATALOG NUMBER: HVSL2-3-LD4-HI-30-UNV-O-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P580347

CATALOG NUMBER: HVSL2-3-LD4-HI-30-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°	20576	20576	20576
5°	20512	19224	18921
10°	20351	18094	17514
15°	20149	17023	16199
20°	19936	15990	15020
25°	19685	15007	13935
30°	19396	14051	12882
35°	19038	13101	11900
40°	18664	12166	10914
45°	18263	11226	9945
50°	17744	10248	8993
55°	17181	9250	8038
60°	16515	8140	7051
65°	15457	7000	6113
70°	13952	5797	5146
75°	11842	4594	4269
80°	8748	3480	3461
85°	4487	2446	2700



TEST NUMBER: P580347

CATALOG NUMBER: HVSL2-3-LD4-HI-30-UNV-O-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.1
10°-20°	259.5	9.0
20°-30°	393.7	13.6
30°-40°	476.0	16.5
40°-50°	496.7	17.2
50°-60°	454.1	15.7
60°-70°	354.0	12.2
70°-80°	221.5	7.7
80°-90°	100.6	3.5
90°-100°	33.7	1.2
100°-110°	8.5	0.3
110°-120°	1.3	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°	743.6	25.7
0°-40°	1219.6	42.2
0°-60°	2170.4	75.1
0°-90°	2846.5	98.5
90°-120°	43.5	1.5
90°-150°	43.5	1.5
90°-180°	44.0	1.5
0°-180°	2890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	954	952	948	952	952	91
15°	918	919	917	922	922	259
25°	850	851	852	859	860	392
35°	753	756	759	767	770	471
45°	633	639	644	650	653	488
55°	494	500	509	517	520	441
65°	340	345	357	372	377	336
75°	172	182	209	234	243	183
85°	30	55	94	125	136	38
90°	0	20	56	84	94	1
95°	0	5	29	52	60	0
105°	0	1	5	14	19	1
115°	1	1	1	2	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: P580347

CATALOG NUMBER: HVSL2-3-LD4-HI-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.8	955.8	955.8	955.8	955.8
2.5°	957.0	955.6	951.3	955.6	955.4
5°	953.8	952.0	947.7	952.2	952.2
7.5°	947.5	946.8	943.0	948.2	948.2
10°	940.1	939.8	936.7	942.3	942.5
12.5°	929.7	930.6	927.7	933.1	933.8
15°	917.5	919.1	916.6	921.8	921.6
17.5°	904.2	905.1	903.3	909.2	909.0
20°	887.8	888.9	887.6	893.6	894.3
22.5°	869.5	871.1	870.9	877.2	879.0
25°	850.2	850.8	851.7	858.9	860.3
27.5°	828.8	829.9	831.5	838.0	839.3
30°	805.3	807.1	808.9	815.7	817.5
32.5°	780.5	782.3	784.6	793.4	794.3
35°	752.6	756.0	759.1	766.8	769.9
37.5°	724.7	728.9	731.9	740.0	742.5
40°	695.1	699.4	704.1	712.7	714.3
42.5°	664.3	669.2	674.9	682.5	685.2
45°	633.2	638.8	644.0	650.3	653.4
47.5°	599.6	605.2	611.5	618.7	620.8
50°	564.9	571.4	578.2	584.9	588.6
52.5°	529.3	537.2	544.8	552.1	555.4
55°	494.1	500.0	509.2	516.7	520.1
57.5°	457.6	462.6	470.9	483.1	484.9
60°	420.5	425.0	433.5	443.4	447.5
62.5°	379.5	385.5	394.5	407.2	410.8
65°	339.6	345.4	357.4	371.6	377.4
67.5°	301.0	303.1	318.4	333.3	342.7
70°	255.5	263.2	281.0	299.2	306.4
72.5°	216.3	224.0	243.6	265.0	274.0
75°	171.9	182.5	209.1	234.1	242.9
77.5°	132.9	144.7	177.6	202.8	212.9
80°	92.8	111.1	146.9	175.3	186.3
82.5°	58.4	80.9	119.2	148.9	158.6
85°	29.7	55.0	94.4	124.8	135.9
87.5°	7.9	35.6	73.5	102.5	113.8
90°	0.2	20.5	55.7	83.6	93.7
92.5°	0.2	11.5	41.5	66.5	76.8
95°	0.2	5.4	28.8	52.3	60.4
97.5°	0.2	2.3	19.8	39.4	47.5
100°	0.2	1.1	12.6	28.6	35.6
102.5°	0.5	0.7	7.9	20.5	26.1
105°	0.5	0.7	4.7	14.0	18.7



TEST NUMBER: P580347

CATALOG NUMBER: HVSL2-3-LD4-HI-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	3.8	5.6
115°	0.7	0.7	0.9	2.5	3.6
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	2.7	9.5	12.8
110°	0.7	0.7	1.6	5.9	8.6



(END OF REPORT)