

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: P580515

Luminaire Tested: **HVSL4-3-LD4-1HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580515
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-LD4-1HI-30-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

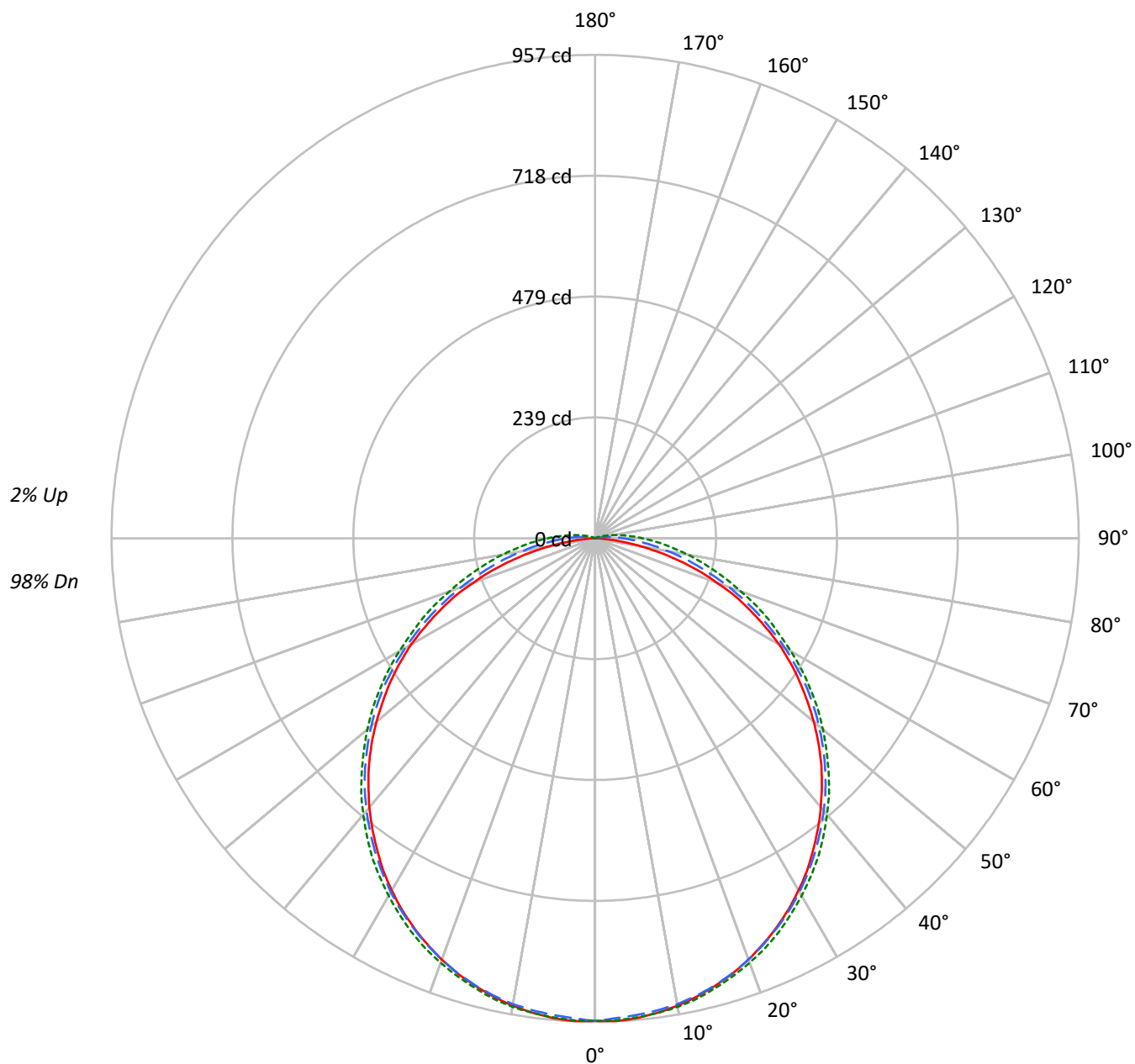
Lumens per Lamp: N/A
Luminaire Lumens: 2889.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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

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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°	10285	10285	10285
5°	10253	9896	9854
10°	10171	9572	9464
15°	10071	9238	9053
20°	9965	8892	8664
25°	9839	8546	8282
30°	9694	8192	7881
35°	9515	7821	7491
40°	9329	7438	7067
45°	9127	7036	6628
50°	8869	6592	6174
55°	8589	6120	5692
60°	8254	5552	5160
65°	7726	4937	4637
70°	6973	4251	4061
75°	5921	3524	3523
80°	4374	2821	3010
85°	2243	2123	2497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.1
10°-20°	259.4	9.0
20°-30°	393.5	13.6
30°-40°	475.9	16.5
40°-50°	496.5	17.2
50°-60°	454.0	15.7
60°-70°	353.9	12.2
70°-80°	221.4	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°	743.3	25.7
0°-40°	1219.2	42.2
0°-60°	2169.7	75.1
0°-90°	2845.5	98.5
90°-120°	43.5	1.5
90°-150°	43.5	1.5
90°-180°	44.0	1.5
0°-180°	2889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	954	952	947	952	952	91
15°	917	919	916	922	921	259
25°	850	850	851	859	860	392
35°	752	756	759	766	770	471
45°	633	639	644	650	653	488
55°	494	500	509	516	520	441
65°	340	345	357	371	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.5	955.5	955.5	955.5	955.5
2.5°	956.6	955.3	951.0	955.3	955.1
5°	953.5	951.7	947.4	951.9	951.9
7.5°	947.2	946.5	942.7	947.8	947.8
10°	939.7	939.5	936.4	942.0	942.2
12.5°	929.4	930.3	927.4	932.8	933.4
15°	917.2	918.8	916.3	921.5	921.3
17.5°	903.9	904.8	903.0	908.9	908.7
20°	887.5	888.6	887.3	893.3	894.0
22.5°	869.2	870.8	870.6	876.9	878.7
25°	849.9	850.5	851.4	858.6	860.0
27.5°	828.5	829.6	831.2	837.7	839.1
30°	805.0	806.8	808.6	815.4	817.2
32.5°	780.3	782.1	784.3	793.1	794.0
35°	752.3	755.7	758.9	766.5	769.7
37.5°	724.4	728.7	731.6	739.7	742.2
40°	694.9	699.2	703.9	712.5	714.0
42.5°	664.0	669.0	674.6	682.3	685.0
45°	632.9	638.6	643.8	650.1	653.2
47.5°	599.4	605.0	611.3	618.5	620.6
50°	564.7	571.2	578.0	584.7	588.4
52.5°	529.1	537.0	544.7	551.9	555.2
55°	494.0	499.8	509.1	516.5	519.9
57.5°	457.5	462.4	470.8	482.9	484.7
60°	420.3	424.8	433.4	443.3	447.3
62.5°	379.3	385.4	394.4	407.0	410.6
65°	339.5	345.3	357.2	371.4	377.3
67.5°	300.9	303.0	318.3	333.1	342.6
70°	255.4	263.1	280.9	299.1	306.3
72.5°	216.2	223.9	243.5	264.9	273.9
75°	171.9	182.5	209.0	234.0	242.8
77.5°	132.9	144.6	177.5	202.7	212.9
80°	92.8	111.0	146.9	175.2	186.3
82.5°	58.3	80.9	119.2	148.9	158.6
85°	29.7	55.0	94.4	124.8	135.8
87.5°	7.9	35.6	73.4	102.5	113.8
90°	0.2	20.5	55.6	83.6	93.7
92.5°	0.2	11.5	41.4	66.4	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



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CATALOG NUMBER: HVSL4-3-LD4-1HI-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)