

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: P580581

Luminaire Tested: **HVSL4-4-LD4-1STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580581
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-35-UNV-O-EDD-90
Description: 4 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

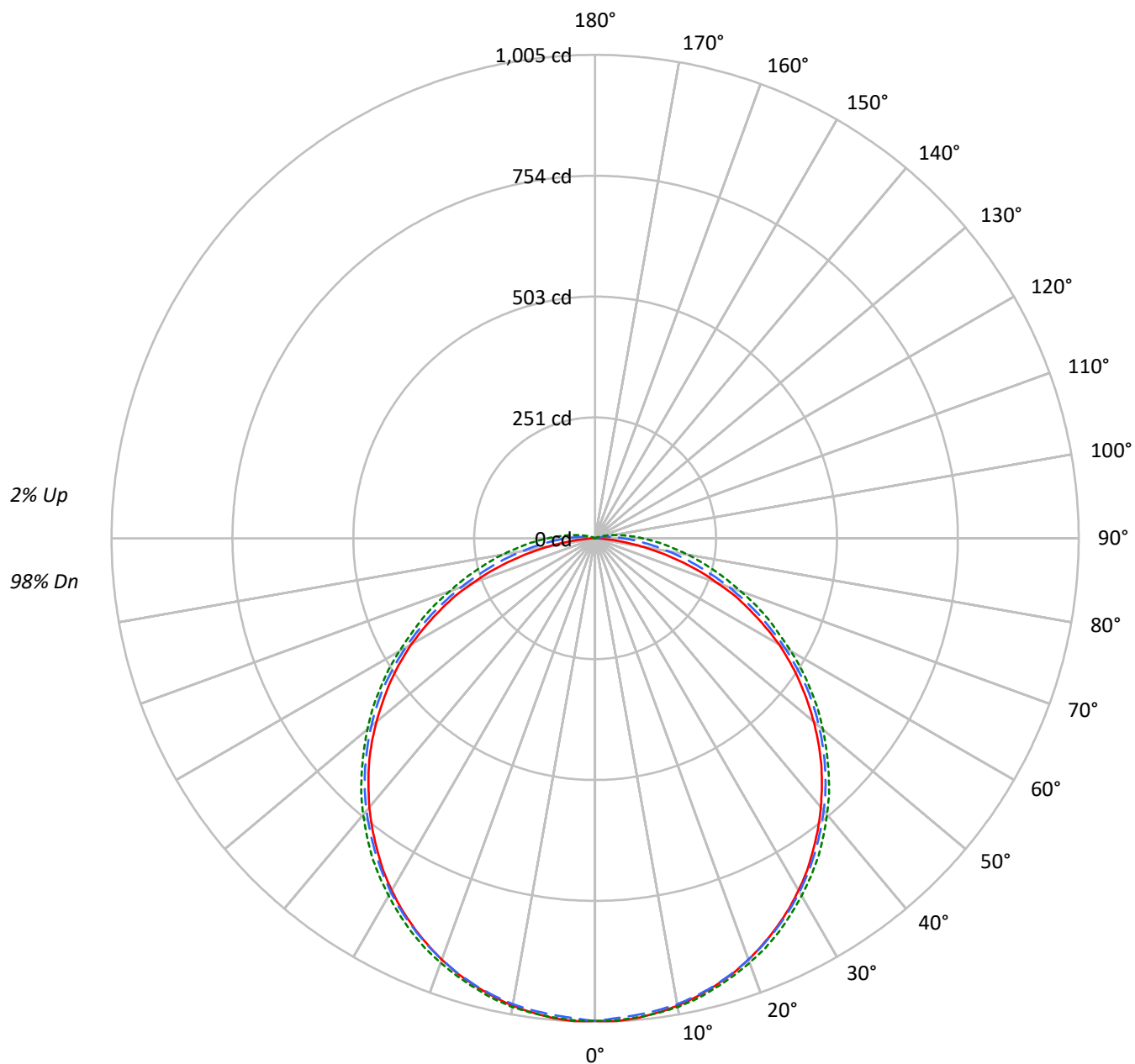
Lumens per Lamp: N/A
Luminaire Lumens: 3034.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.17')
CIE Type: Direct

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

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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°	8101	8101	8101
5°	8085	7801	7762
10°	8031	7551	7454
15°	7961	7294	7131
20°	7887	7026	6824
25°	7798	6758	6524
30°	7696	6482	6208
35°	7566	6193	5900
40°	7431	5895	5567
45°	7285	5581	5221
50°	7095	5234	4862
55°	6892	4863	4483
60°	6647	4417	4065
65°	6251	3935	3652
70°	5682	3392	3199
75°	4872	2818	2775
80°	3666	2260	2370
85°	1957	1707	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.1
10°-20°	272.4	9.0
20°-30°	413.3	13.6
30°-40°	499.7	16.5
40°-50°	521.4	17.2
50°-60°	476.8	15.7
60°-70°	371.7	12.2
70°-80°	232.5	7.7
80°-90°	105.6	3.5
90°-100°	35.4	1.2
100°-110°	8.9	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°	780.6	25.7
0°-40°	1280.4	42.2
0°-60°	2278.6	75.1
0°-90°	2988.3	98.5
90°-120°	45.7	1.5
90°-150°	45.7	1.5
90°-180°	46.0	1.5
0°-180°	3034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1001	999	995	1000	1000	95
15°	963	965	962	968	968	272
25°	892	893	894	902	903	411
35°	790	794	797	805	808	495
45°	665	671	676	683	686	512
55°	519	525	535	542	546	463
65°	356	363	375	390	396	353
75°	180	192	220	246	255	192
85°	31	58	99	131	143	40
90°	0	22	58	88	98	1
95°	0	6	30	55	63	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.5	1003.5	1003.5	1003.5	1003.5
2.5°	1004.6	1003.2	998.7	1003.2	1003.0
5°	1001.3	999.4	994.9	999.7	999.7
7.5°	994.7	994.0	990.0	995.4	995.4
10°	986.9	986.7	983.4	989.3	989.5
12.5°	976.0	977.0	973.9	979.6	980.3
15°	963.2	964.9	962.3	967.7	967.5
17.5°	949.3	950.2	948.3	954.5	954.3
20°	932.0	933.2	931.8	938.2	938.9
22.5°	912.9	914.5	914.3	920.9	922.8
25°	892.5	893.2	894.2	901.7	903.2
27.5°	870.0	871.2	872.9	879.7	881.2
30°	845.4	847.3	849.2	856.3	858.2
32.5°	819.4	821.3	823.7	832.9	833.9
35°	790.1	793.6	797.0	805.0	808.3
37.5°	760.8	765.3	768.3	776.8	779.4
40°	729.8	734.3	739.2	748.2	749.9
42.5°	697.4	702.6	708.5	716.5	719.4
45°	664.7	670.6	676.1	682.7	686.0
47.5°	629.5	635.4	642.0	649.6	651.7
50°	593.0	599.9	607.0	614.1	617.9
52.5°	555.7	563.9	572.0	579.6	583.1
55°	518.8	524.9	534.6	542.4	546.0
57.5°	480.4	485.6	494.4	507.2	509.1
60°	441.4	446.1	455.1	465.5	469.8
62.5°	398.4	404.7	414.2	427.5	431.2
65°	356.5	362.6	375.2	390.1	396.2
67.5°	316.0	318.2	334.3	349.9	359.8
70°	268.3	276.3	295.0	314.1	321.7
72.5°	227.1	235.1	255.7	278.2	287.7
75°	180.5	191.6	219.5	245.8	255.0
77.5°	139.6	151.9	186.4	212.9	223.5
80°	97.5	116.6	154.2	184.0	195.6
82.5°	61.3	84.9	125.1	156.4	166.5
85°	31.2	57.7	99.1	131.1	142.6
87.5°	8.3	37.4	77.1	107.6	119.5
90°	0.2	21.5	58.4	87.8	98.4
92.5°	0.2	12.1	43.5	69.8	80.7
95°	0.2	5.7	30.3	54.9	63.4
97.5°	0.2	2.4	20.8	41.4	49.9
100°	0.2	1.2	13.2	30.0	37.4
102.5°	0.5	0.7	8.3	21.5	27.4
105°	0.5	0.7	5.0	14.7	19.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	4.0	5.9
115°	0.7	0.7	0.9	2.6	3.8
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	2.8	9.9	13.5
110°	0.7	0.7	1.7	6.2	9.0



(END OF REPORT)