

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: P580648

Luminaire Tested: **HVSL4-8-LD4-2LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580648
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: HVSL4-8-LD4-2LO-40-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

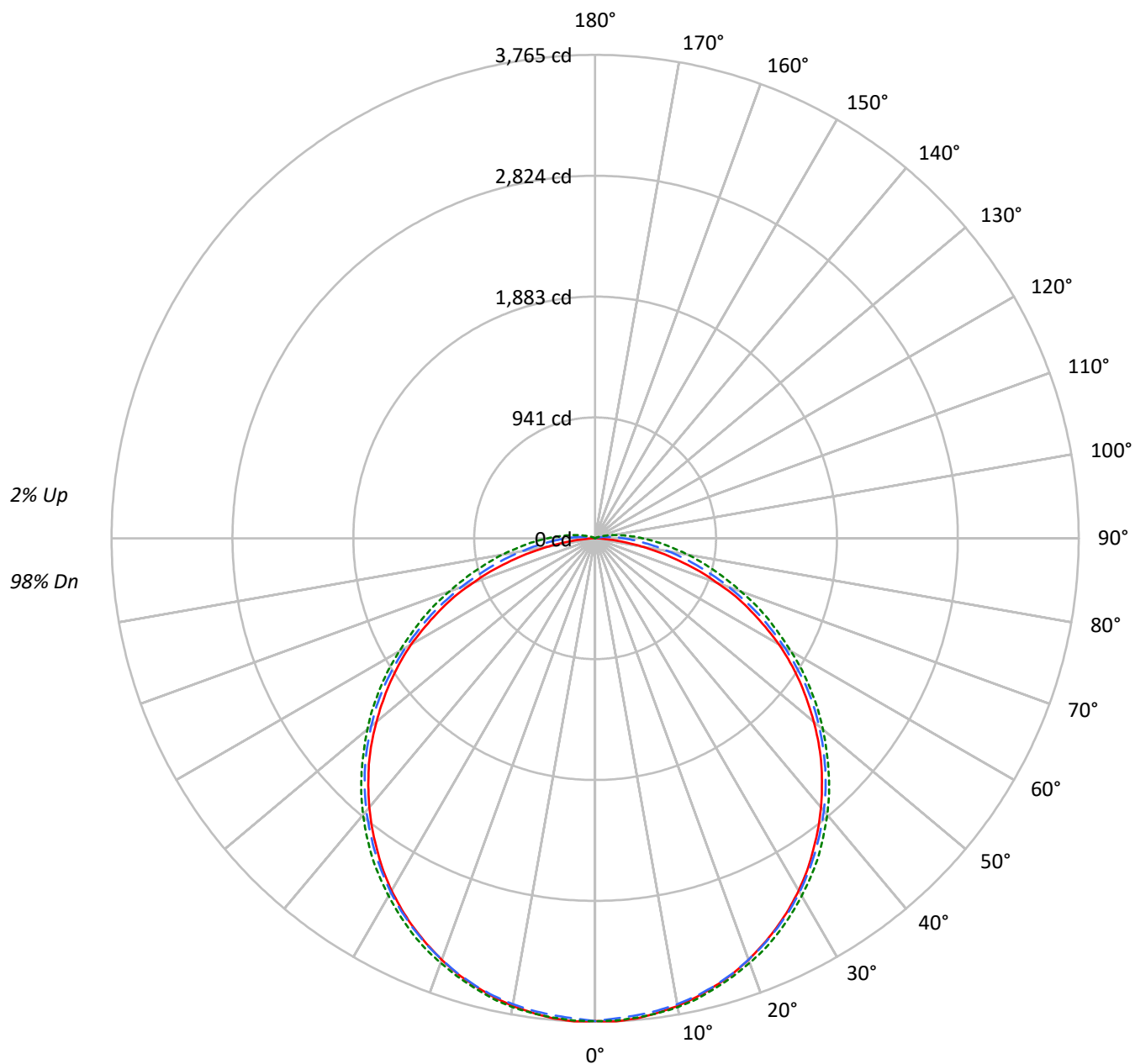
Lumens per Lamp: N/A
Luminaire Lumens: 11371.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 92.4
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				20
RC	80				70				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°	15180	15180	15180
5°	15179	14637	14545
10°	15105	14185	13968
15°	15002	13718	13362
20°	14892	13227	12787
25°	14754	12738	12225
30°	14593	12233	11633
35°	14382	11700	11056
40°	14164	11152	10431
45°	13931	10570	9784
50°	13619	9927	9111
55°	13287	9240	8400
60°	12890	8407	7617
65°	12215	7503	6844
70°	11223	6485	5994
75°	9789	5403	5200
80°	7594	4349	4443
85°	4376	3302	3686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	3.1
10°-20°	1020.9	9.0
20°-30°	1549.0	13.6
30°-40°	1873.0	16.5
40°-50°	1954.3	17.2
50°-60°	1786.8	15.7
60°-70°	1392.9	12.2
70°-80°	871.3	7.7
80°-90°	395.8	3.5
90°-100°	132.6	1.2
100°-110°	33.3	0.3
110°-120°	5.3	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°	2925.7	25.7
0°-40°	4798.7	42.2
0°-60°	8539.8	75.1
0°-90°	11199.8	98.5
90°-120°	171.2	1.5
90°-150°	171.2	1.5
90°-180°	171.0	1.5
0°-180°	11371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3761	3761	3761	3761	3761	
5°	3753	3746	3729	3747	3747	356
15°	3610	3616	3607	3627	3626	1019
25°	3345	3348	3351	3380	3385	1541
35°	2961	2974	2987	3017	3029	1853
45°	2491	2513	2534	2559	2571	1920
55°	1944	1967	2004	2033	2046	1737
65°	1336	1359	1406	1462	1485	1322
75°	676	718	823	921	956	721
85°	117	216	372	491	535	148
90°	1	81	219	329	369	5
95°	1	21	114	206	238	1
105°	2	3	19	55	74	2
115°	3	3	4	10	14	2
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	



TEST NUMBER: P580648

CATALOG NUMBER: HVSL4-8-LD4-2LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3760.8	3760.8	3760.8	3760.8	3760.8
2.5°	3765.3	3760.0	3743.1	3760.0	3759.1
5°	3752.9	3745.8	3728.9	3746.7	3746.7
7.5°	3728.0	3725.4	3710.3	3730.7	3730.7
10°	3698.8	3697.9	3685.5	3707.6	3708.5
12.5°	3658.0	3661.5	3650.0	3671.3	3674.0
15°	3610.1	3616.3	3606.6	3627.0	3626.1
17.5°	3557.8	3561.4	3554.3	3577.3	3576.4
20°	3493.1	3497.5	3492.2	3516.1	3518.8
22.5°	3421.3	3427.5	3426.6	3451.4	3458.5
25°	3345.0	3347.7	3351.2	3379.6	3384.9
27.5°	3260.8	3265.2	3271.5	3297.2	3302.5
30°	3168.6	3175.7	3182.8	3209.4	3216.5
32.5°	3071.1	3078.2	3087.0	3121.6	3125.2
35°	2961.2	2974.5	2986.9	3017.0	3029.4
37.5°	2851.2	2868.1	2879.6	2911.5	2921.3
40°	2735.1	2751.9	2770.5	2804.2	2810.4
42.5°	2613.6	2633.1	2655.3	2685.4	2696.1
45°	2491.3	2513.4	2533.8	2558.6	2571.1
47.5°	2359.2	2381.3	2406.2	2434.5	2442.5
50°	2222.6	2248.3	2274.9	2301.5	2315.7
52.5°	2082.6	2113.6	2143.7	2172.1	2185.4
55°	1944.3	1967.3	2003.7	2032.9	2046.2
57.5°	1800.6	1820.1	1852.9	1900.8	1907.9
60°	1654.3	1672.1	1705.8	1744.8	1760.7
62.5°	1493.0	1516.9	1552.4	1602.0	1616.2
65°	1336.1	1359.1	1406.1	1462.0	1485.0
67.5°	1184.5	1192.4	1252.7	1311.2	1348.5
70°	1005.4	1035.5	1105.6	1177.4	1205.7
72.5°	851.1	881.3	958.4	1042.6	1078.1
75°	676.5	718.1	822.7	921.1	955.7
77.5°	523.1	569.2	698.6	797.9	837.8
80°	365.3	437.1	578.0	689.8	733.2
82.5°	229.6	318.3	469.0	586.0	624.1
85°	117.0	216.3	371.5	491.2	534.6
87.5°	31.0	140.1	289.0	403.4	447.7
90°	0.9	80.7	219.0	328.9	368.8
92.5°	0.9	45.2	163.1	261.5	302.3
95°	0.9	21.3	113.5	205.7	237.6
97.5°	0.9	8.9	78.0	155.2	187.1
100°	0.9	4.4	49.6	112.6	140.1
102.5°	1.8	2.7	31.0	80.7	102.8
105°	1.8	2.7	18.6	55.0	73.6



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CATALOG NUMBER: HVSL4-8-LD4-2LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	2.7	3.5	15.1	22.2
115°	2.7	2.7	3.5	9.8	14.2
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°	1.8	2.7	10.6	37.2	50.5
110°	2.7	2.7	6.2	23.1	33.7



(END OF REPORT)