

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: P580650

Luminaire Tested: **HVSL4-8-LD4-2LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580650
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-50-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

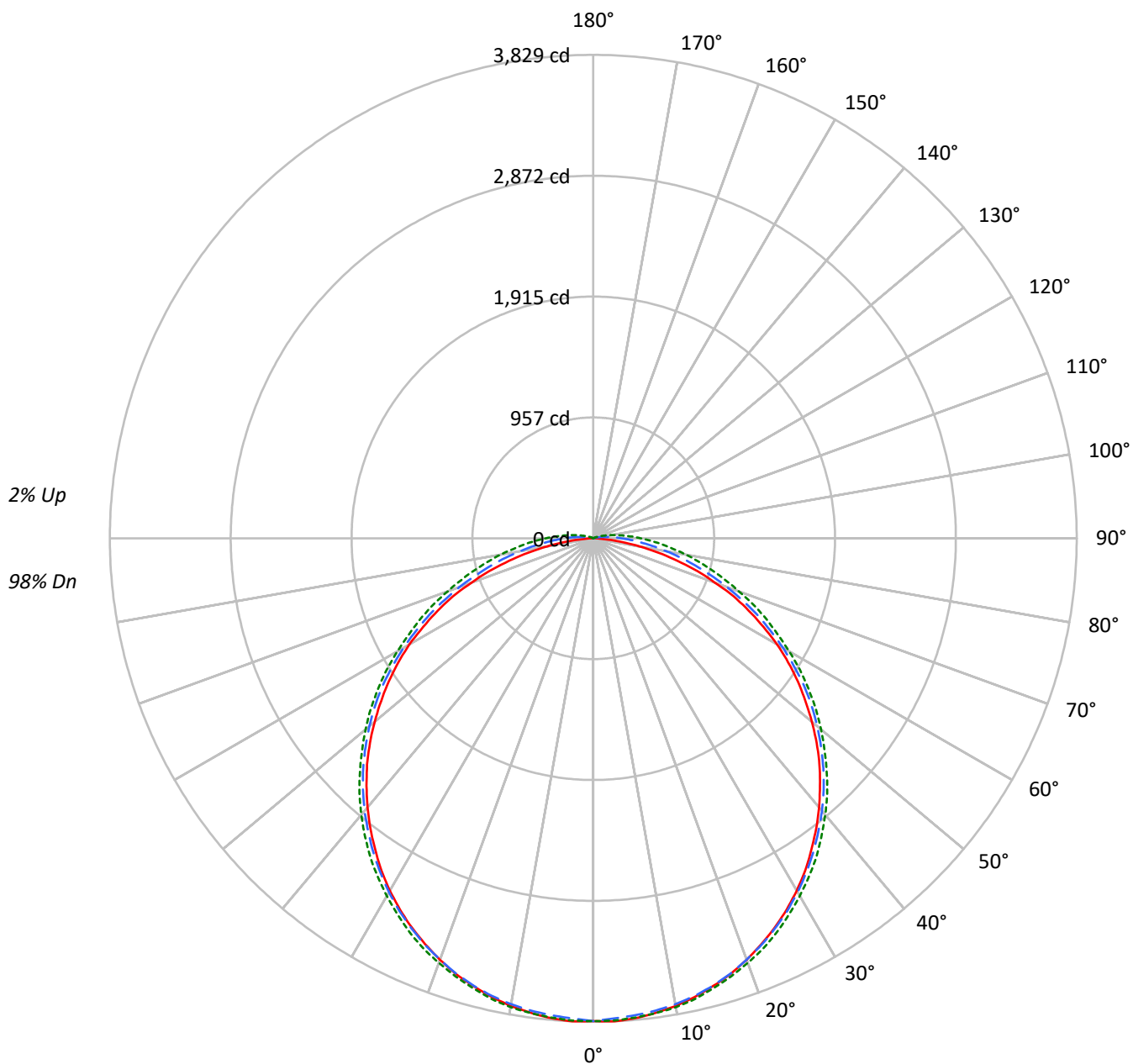
Lumens per Lamp: N/A
Luminaire Lumens: 11564.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

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
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°	15438	15438	15438
5°	15436	14886	14791
10°	15361	14425	14206
15°	15257	13950	13589
20°	15145	13452	13004
25°	15005	12954	12432
30°	14841	12441	11830
35°	14626	11899	11244
40°	14405	11341	10608
45°	14168	10750	9950
50°	13851	10096	9266
55°	13513	9397	8543
60°	13109	8549	7746
65°	12422	7630	6960
70°	11413	6595	6096
75°	9954	5495	5288
80°	7723	4424	4518
85°	4451	3358	3749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	3.1
10°-20°	1038.2	9.0
20°-30°	1575.3	13.6
30°-40°	1904.8	16.5
40°-50°	1987.5	17.2
50°-60°	1817.2	15.7
60°-70°	1416.6	12.2
70°-80°	886.1	7.7
80°-90°	402.5	3.5
90°-100°	134.9	1.2
100°-110°	33.9	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°	2975.4	25.7
0°-40°	4880.1	42.2
0°-60°	8684.8	75.1
0°-90°	11389.9	98.5
90°-120°	174.1	1.5
90°-150°	174.1	1.5
90°-180°	174.0	1.5
0°-180°	11564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3825	3825	3825	3825	3825	
5°	3817	3809	3792	3810	3810	362
15°	3671	3678	3668	3688	3688	1036
25°	3402	3404	3408	3437	3442	1568
35°	3011	3025	3038	3068	3081	1885
45°	2534	2556	2577	2602	2615	1952
55°	1977	2001	2038	2067	2081	1766
65°	1359	1382	1430	1487	1510	1344
75°	688	730	837	937	972	733
85°	119	220	378	500	544	151
90°	1	82	223	334	375	5
95°	1	22	115	209	242	1
105°	2	3	19	56	75	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3824.7	3824.7	3824.7	3824.7	3824.7
2.5°	3829.2	3823.8	3806.6	3823.8	3822.9
5°	3816.6	3809.3	3792.2	3810.2	3810.2
7.5°	3791.3	3788.6	3773.3	3794.0	3794.0
10°	3761.6	3760.7	3748.0	3770.6	3771.5
12.5°	3720.1	3723.7	3712.0	3733.6	3736.3
15°	3671.4	3677.7	3667.8	3688.5	3687.6
17.5°	3618.2	3621.8	3614.6	3638.0	3637.1
20°	3552.4	3556.9	3551.5	3575.8	3578.5
22.5°	3479.4	3485.7	3484.8	3510.0	3517.2
25°	3401.8	3404.5	3408.1	3437.0	3442.4
27.5°	3316.2	3320.7	3327.0	3353.1	3358.5
30°	3222.4	3229.6	3236.8	3263.9	3271.1
32.5°	3123.2	3130.4	3139.4	3174.6	3178.2
35°	3011.4	3024.9	3037.6	3068.2	3080.8
37.5°	2899.6	2916.7	2928.5	2960.9	2970.8
40°	2781.5	2798.6	2817.6	2851.8	2858.1
42.5°	2658.0	2677.8	2700.4	2731.0	2741.8
45°	2533.6	2556.1	2576.8	2602.1	2614.7
47.5°	2399.2	2421.8	2447.0	2475.8	2484.0
50°	2260.4	2286.5	2313.6	2340.6	2355.0
52.5°	2117.9	2149.5	2180.1	2209.0	2222.5
55°	1977.3	2000.7	2037.7	2067.4	2080.9
57.5°	1831.2	1851.0	1884.4	1933.1	1940.3
60°	1682.4	1700.5	1734.7	1774.4	1790.6
62.5°	1518.3	1542.7	1578.7	1629.2	1643.7
65°	1358.7	1382.2	1430.0	1486.8	1510.2
67.5°	1204.6	1212.7	1274.0	1333.5	1371.4
70°	1022.4	1053.1	1124.3	1197.4	1226.2
72.5°	865.6	896.2	974.7	1060.3	1096.4
75°	687.9	730.3	836.7	936.8	971.9
77.5°	532.0	578.8	710.5	811.5	852.0
80°	371.5	444.5	587.9	701.5	745.6
82.5°	233.5	323.7	477.0	596.0	634.7
85°	119.0	220.0	377.8	499.5	543.7
87.5°	31.6	142.5	293.9	410.2	455.3
90°	0.9	82.0	222.7	334.5	375.1
92.5°	0.9	46.0	165.9	266.0	307.5
95°	0.9	21.6	115.4	209.2	241.6
97.5°	0.9	9.0	79.3	157.8	190.2
100°	0.9	4.5	50.5	114.5	142.5
102.5°	1.8	2.7	31.6	82.0	104.6
105°	1.8	2.7	18.9	55.9	74.8



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CATALOG NUMBER: HVSL4-8-LD4-2LO-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	2.7	3.6	15.3	22.5
115°	2.7	2.7	3.6	9.9	14.4
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	10.8	37.9	51.4
110°	2.7	2.7	6.3	23.4	34.3



(END OF REPORT)