

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: P580651

Luminaire Tested: **HVSL4-8-LD4-2STD-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580651
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-LD4-2STD-30-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

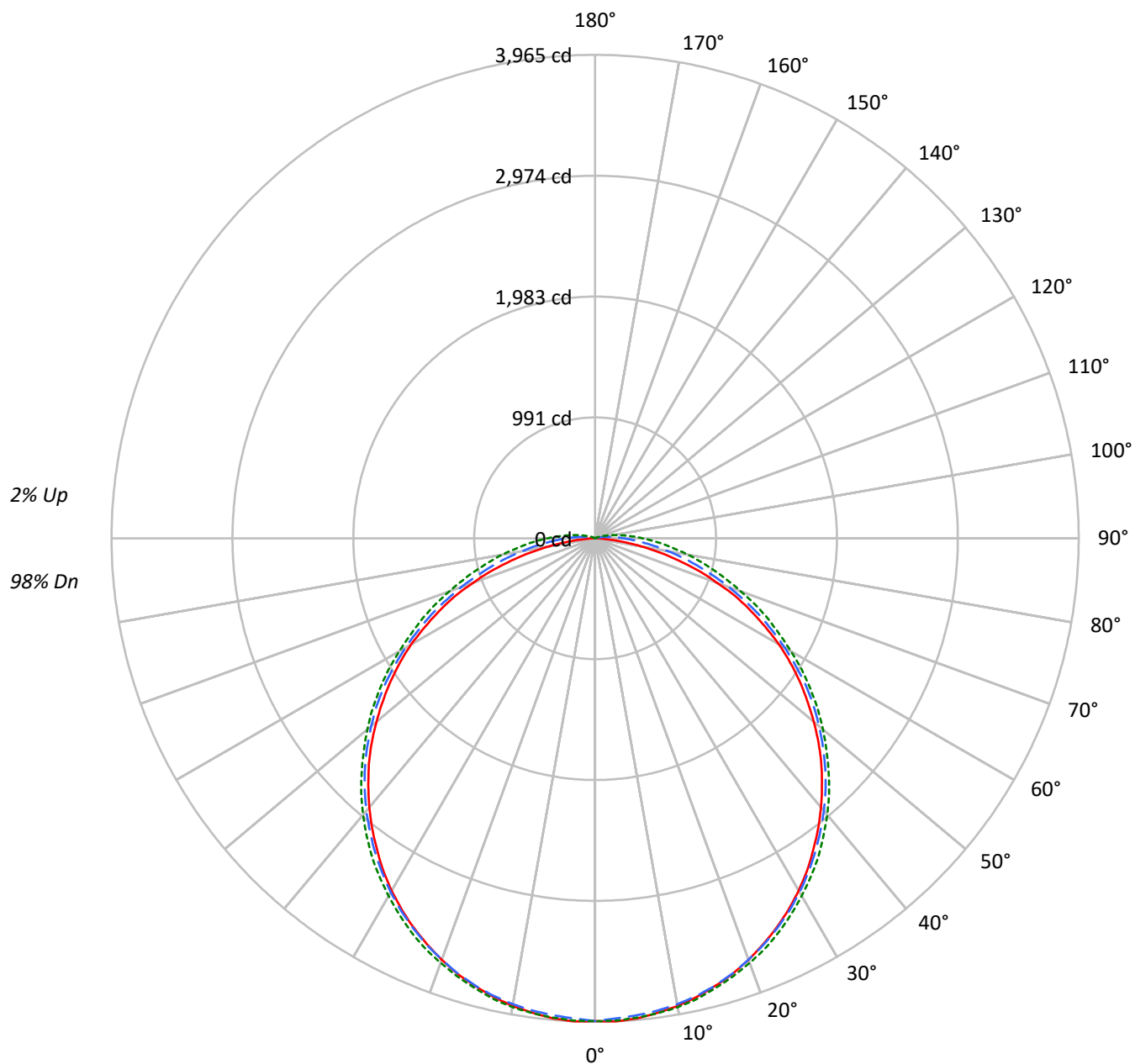
Lumens per Lamp: N/A
Luminaire Lumens: 11975.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 130.8
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
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15987	15987	15987
5°	15985	15415	15317
10°	15907	14938	14710
15°	15799	14446	14072
20°	15683	13930	13467
25°	15538	13414	12874
30°	15368	12883	12251
35°	15145	12322	11643
40°	14917	11744	10985
45°	14671	11132	10303
50°	14343	10455	9595
55°	13993	9731	8847
60°	13575	8854	8021
65°	12864	7901	7207
70°	11819	6829	6313
75°	10309	5690	5476
80°	7997	4580	4678
85°	4608	3477	3882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	3.1
10°-20°	1075.1	9.0
20°-30°	1631.2	13.6
30°-40°	1972.5	16.5
40°-50°	2058.1	17.2
50°-60°	1881.7	15.7
60°-70°	1466.9	12.2
70°-80°	917.6	7.7
80°-90°	416.8	3.5
90°-100°	139.7	1.2
100°-110°	35.1	0.3
110°-120°	5.5	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°	3081.1	25.7
0°-40°	5053.6	42.2
0°-60°	8993.4	75.1
0°-90°	11794.7	98.5
90°-120°	180.3	1.5
90°-150°	180.3	1.5
90°-180°	180.0	1.5
0°-180°	11975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3961	3961	3961	3961	3961	
5°	3952	3945	3927	3946	3946	375
15°	3802	3808	3798	3820	3819	1073
25°	3523	3526	3529	3559	3565	1623
35°	3118	3132	3146	3177	3190	1952
45°	2624	2647	2668	2695	2708	2022
55°	2048	2072	2110	2141	2155	1829
65°	1407	1431	1481	1540	1564	1392
75°	712	756	866	970	1006	759
85°	123	228	391	517	563	156
90°	1	85	231	346	388	5
95°	1	22	120	217	250	1
105°	2	3	20	58	78	2
115°	3	3	4	10	15	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°	3960.6	3960.6	3960.6	3960.6	3960.6
2.5°	3965.3	3959.7	3941.9	3959.7	3958.7
5°	3952.2	3944.7	3927.0	3945.7	3945.7
7.5°	3926.1	3923.3	3907.4	3928.9	3928.9
10°	3895.3	3894.3	3881.2	3904.6	3905.5
12.5°	3852.3	3856.0	3843.9	3866.3	3869.1
15°	3801.9	3808.4	3798.1	3819.6	3818.7
17.5°	3746.8	3750.5	3743.1	3767.3	3766.4
20°	3678.6	3683.3	3677.7	3702.9	3705.7
22.5°	3603.0	3609.5	3608.6	3634.8	3642.2
25°	3522.7	3525.5	3529.3	3559.1	3564.7
27.5°	3434.0	3438.7	3445.2	3472.3	3477.9
30°	3336.9	3344.4	3351.9	3379.9	3387.3
32.5°	3234.2	3241.7	3251.0	3287.4	3291.2
35°	3118.4	3132.4	3145.5	3177.3	3190.3
37.5°	3002.7	3020.4	3032.5	3066.2	3076.4
40°	2880.4	2898.1	2917.7	2953.2	2959.7
42.5°	2752.4	2773.0	2796.3	2828.1	2839.3
45°	2623.6	2646.9	2668.4	2694.6	2707.6
47.5°	2484.5	2507.8	2534.0	2563.8	2572.2
50°	2340.7	2367.8	2395.8	2423.8	2438.7
52.5°	2193.2	2225.9	2257.6	2287.5	2301.5
55°	2047.5	2071.8	2110.1	2140.9	2154.9
57.5°	1896.3	1916.8	1951.4	2001.8	2009.2
60°	1742.2	1760.9	1796.4	1837.5	1854.3
62.5°	1572.3	1597.5	1634.8	1687.1	1702.1
65°	1407.0	1431.3	1480.8	1539.6	1563.9
67.5°	1247.4	1255.8	1319.3	1380.9	1420.1
70°	1058.8	1090.5	1164.3	1239.9	1269.8
72.5°	896.3	928.1	1009.3	1098.0	1135.3
75°	712.4	756.3	866.4	970.1	1006.5
77.5°	550.9	599.4	735.7	840.3	882.3
80°	384.7	460.3	608.7	726.4	772.1
82.5°	241.8	335.2	493.9	617.2	657.3
85°	123.2	227.8	391.2	517.3	563.0
87.5°	32.7	147.5	304.4	424.8	471.5
90°	0.9	85.0	230.6	346.4	388.4
92.5°	0.9	47.6	171.8	275.4	318.4
95°	0.9	22.4	119.5	216.6	250.2
97.5°	0.9	9.3	82.2	163.4	197.0
100°	0.9	4.7	52.3	118.6	147.5
102.5°	1.9	2.8	32.7	85.0	108.3
105°	1.9	2.8	19.6	57.9	77.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	2.8	3.7	15.9	23.3
115°	2.8	2.8	3.7	10.3	14.9
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°	1.9	2.8	11.2	39.2	53.2
110°	2.8	2.8	6.5	24.3	35.5



(END OF REPORT)