

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: P580646

Luminaire Tested: **HVSL4-8-LD4-2LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580646
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-35-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

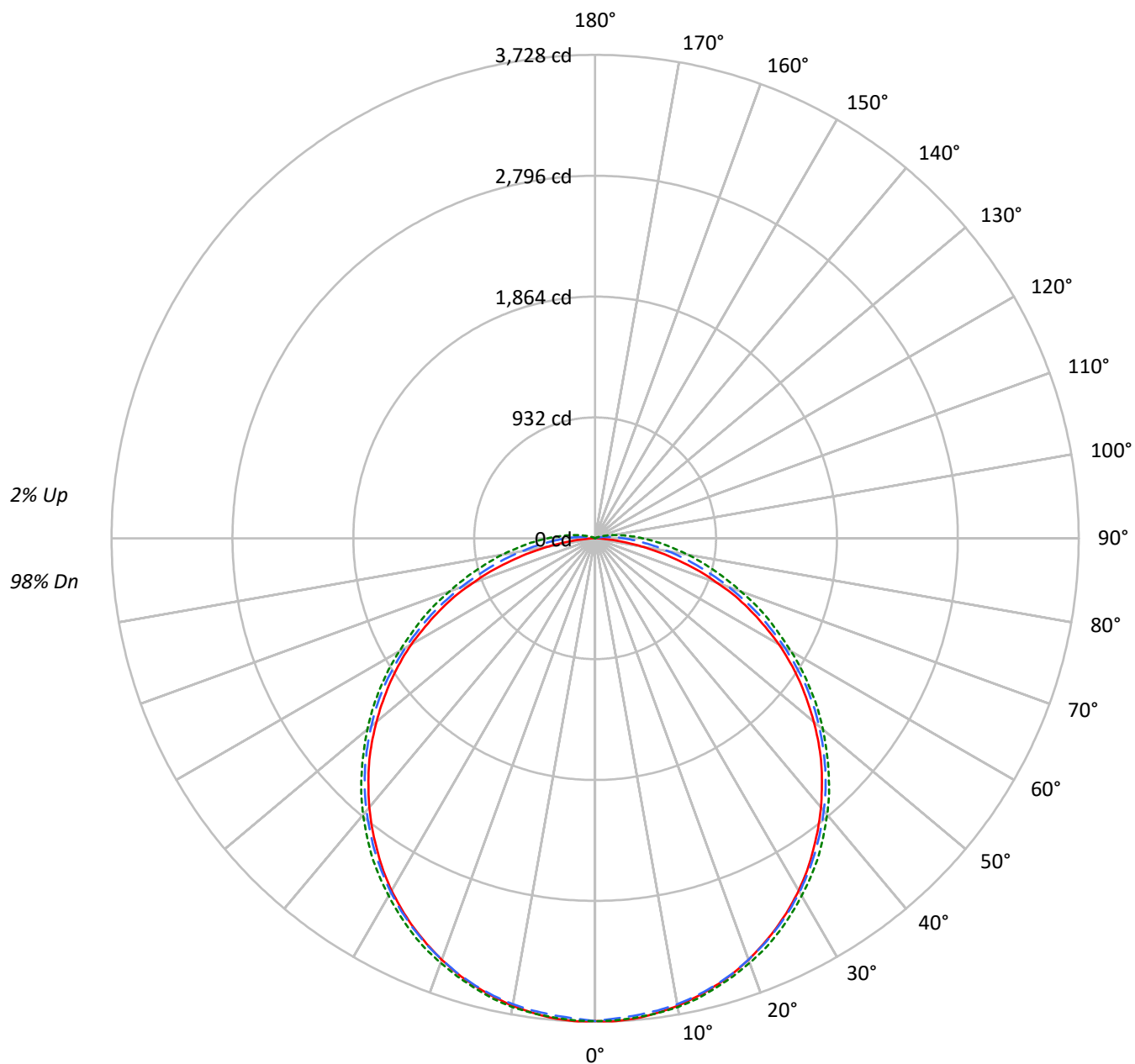
Lumens per Lamp: N/A
Luminaire Lumens: 11258.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

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°	15030	15030	15030
5°	15028	14492	14400
10°	14955	14044	13830
15°	14853	13581	13229
20°	14744	13096	12660
25°	14608	12611	12103
30°	14448	12112	11517
35°	14239	11584	10946
40°	14023	11041	10328
45°	13792	10465	9687
50°	13483	9829	9021
55°	13155	9148	8317
60°	12762	8323	7541
65°	12094	7428	6776
70°	11111	6420	5935
75°	9691	5350	5148
80°	7517	4307	4399
85°	4335	3269	3650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	3.1
10°-20°	1010.7	9.0
20°-30°	1533.6	13.6
30°-40°	1854.4	16.5
40°-50°	1934.9	17.2
50°-60°	1769.1	15.7
60°-70°	1379.1	12.2
70°-80°	862.7	7.7
80°-90°	391.8	3.5
90°-100°	131.3	1.2
100°-110°	33.0	0.3
110°-120°	5.2	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°	2896.6	25.7
0°-40°	4751.0	42.2
0°-60°	8454.9	75.1
0°-90°	11088.5	98.5
90°-120°	169.5	1.5
90°-150°	169.5	1.5
90°-180°	169.0	1.5
0°-180°	11258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3724	3724	3724	3724	3724	
5°	3716	3708	3692	3709	3709	353
15°	3574	3580	3571	3591	3590	1009
25°	3312	3314	3318	3346	3351	1526
35°	2932	2945	2957	2987	2999	1835
45°	2466	2488	2509	2533	2546	1901
55°	1925	1948	1984	2013	2026	1720
65°	1323	1346	1392	1447	1470	1309
75°	670	711	815	912	946	714
85°	116	214	368	486	529	147
90°	1	80	217	326	365	5
95°	1	21	112	204	235	1
105°	2	3	18	54	73	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°	3723.5	3723.5	3723.5	3723.5	3723.5
2.5°	3727.9	3722.6	3705.9	3722.6	3721.7
5°	3715.6	3708.5	3691.9	3709.4	3709.4
7.5°	3691.0	3688.4	3673.4	3693.6	3693.6
10°	3662.0	3661.1	3648.9	3670.8	3671.7
12.5°	3621.6	3625.2	3613.7	3634.8	3637.4
15°	3574.2	3580.4	3570.7	3590.9	3590.0
17.5°	3522.5	3526.0	3518.9	3541.8	3540.9
20°	3458.4	3462.8	3457.5	3481.2	3483.8
22.5°	3387.3	3393.4	3392.6	3417.1	3424.1
25°	3311.8	3314.4	3317.9	3346.0	3351.3
27.5°	3228.4	3232.8	3238.9	3264.4	3269.7
30°	3137.1	3144.1	3151.2	3177.5	3184.5
32.5°	3040.6	3047.6	3056.4	3090.6	3094.1
35°	2931.7	2944.9	2957.2	2987.0	2999.3
37.5°	2822.9	2839.6	2851.0	2882.6	2892.2
40°	2707.9	2724.6	2743.0	2776.4	2782.5
42.5°	2587.6	2607.0	2628.9	2658.7	2669.3
45°	2466.5	2488.5	2508.6	2533.2	2545.5
47.5°	2335.7	2357.7	2382.2	2410.3	2418.2
50°	2200.5	2226.0	2252.3	2278.7	2292.7
52.5°	2061.9	2092.6	2122.4	2150.5	2163.7
55°	1924.9	1947.8	1983.7	2012.7	2025.9
57.5°	1782.7	1802.0	1834.5	1881.9	1888.9
60°	1637.9	1655.5	1688.8	1727.4	1743.2
62.5°	1478.2	1501.9	1537.0	1586.1	1600.2
65°	1322.8	1345.6	1392.1	1447.4	1470.3
67.5°	1172.7	1180.6	1240.3	1298.2	1335.1
70°	995.4	1025.2	1094.6	1165.7	1193.8
72.5°	842.7	872.5	948.9	1032.2	1067.4
75°	669.7	711.0	814.6	912.0	946.2
77.5°	517.9	563.5	691.7	790.0	829.5
80°	361.6	432.7	572.3	682.9	725.9
82.5°	227.3	315.1	464.3	580.2	617.9
85°	115.9	214.2	367.8	486.3	529.3
87.5°	30.7	138.7	286.2	399.4	443.3
90°	0.9	79.9	216.8	325.6	365.1
92.5°	0.9	44.8	161.5	258.9	299.3
95°	0.9	21.1	112.4	203.6	235.2
97.5°	0.9	8.8	77.2	153.6	185.2
100°	0.9	4.4	49.2	111.5	138.7
102.5°	1.8	2.6	30.7	79.9	101.8
105°	1.8	2.6	18.4	54.4	72.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	2.6	3.5	14.9	21.9
115°	2.6	2.6	3.5	9.7	14.0
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	2.6	10.5	36.9	50.0
110°	2.6	2.6	6.1	22.8	33.4



(END OF REPORT)