

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: P580653

Luminaire Tested: **HVSL4-8-LD4-2STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580653
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-35-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

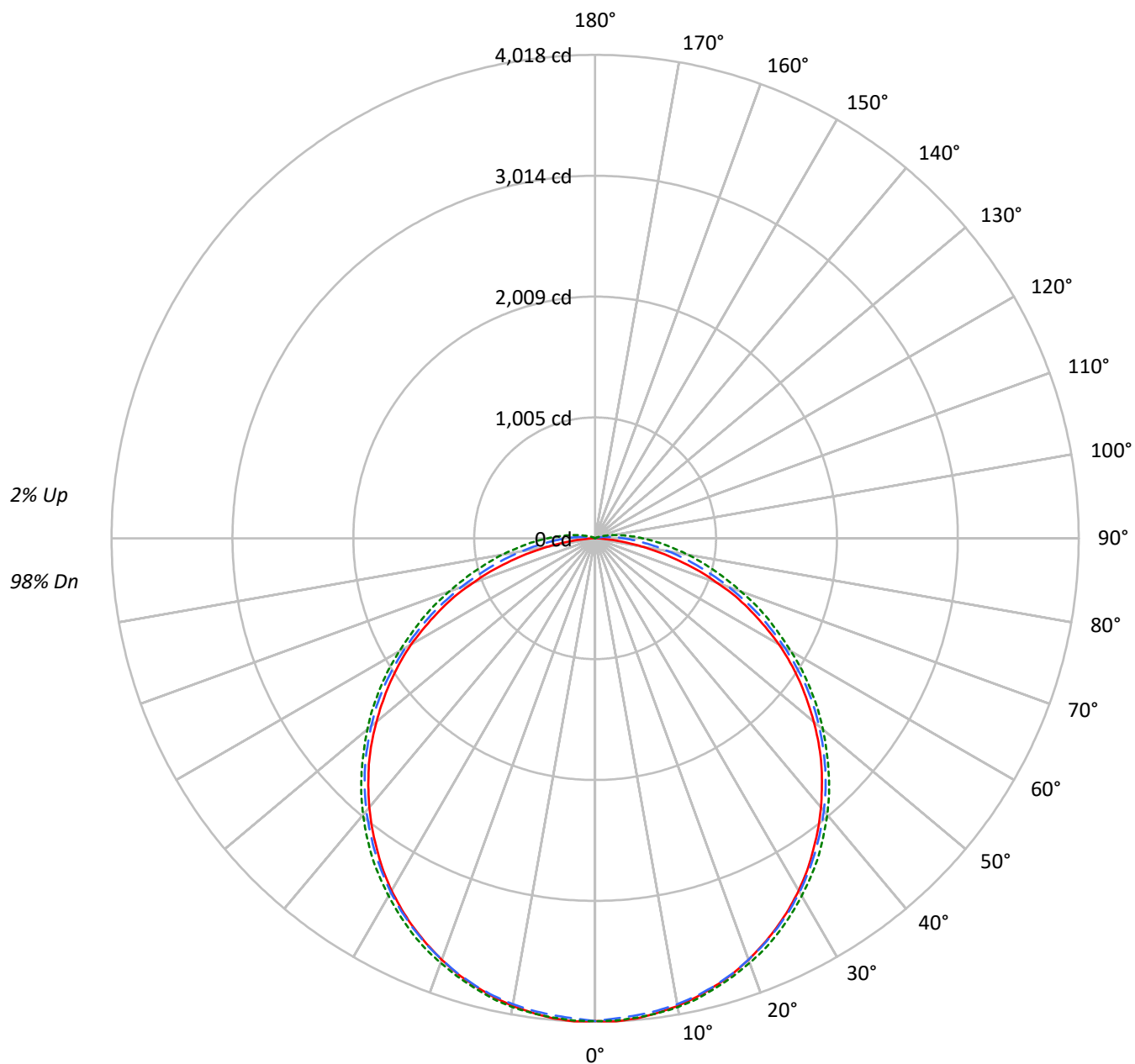
Lumens per Lamp: N/A
Luminaire Lumens: 12135.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

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	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°	16200	16200	16200
5°	16198	15621	15522
10°	16120	15138	14907
15°	16010	14639	14260
20°	15892	14116	13647
25°	15746	13593	13046
30°	15574	13055	12415
35°	15348	12486	11799
40°	15116	11901	11132
45°	14867	11281	10441
50°	14534	10595	9724
55°	14180	9861	8965
60°	13756	8972	8128
65°	13035	8007	7304
70°	11977	6920	6397
75°	10446	5766	5549
80°	8103	4642	4741
85°	4672	3523	3934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.8	3.1
10°-20°	1089.4	9.0
20°-30°	1653.0	13.6
30°-40°	1998.8	16.5
40°-50°	2085.6	17.2
50°-60°	1906.9	15.7
60°-70°	1486.5	12.2
70°-80°	929.9	7.7
80°-90°	422.3	3.5
90°-100°	141.6	1.2
100°-110°	35.5	0.3
110°-120°	5.6	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°	3122.3	25.7
0°-40°	5121.1	42.2
0°-60°	9113.6	75.1
0°-90°	11952.3	98.5
90°-120°	182.7	1.5
90°-150°	182.7	1.5
90°-180°	183.0	1.5
0°-180°	12135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4014	4014	4014	4014	4014	
5°	4005	3997	3980	3998	3998	380
15°	3853	3859	3849	3871	3870	1088
25°	3570	3573	3576	3607	3612	1645
35°	3160	3174	3188	3220	3233	1978
45°	2659	2682	2704	2731	2744	2049
55°	2075	2100	2138	2170	2184	1854
65°	1426	1450	1501	1560	1585	1411
75°	722	766	878	983	1020	770
85°	125	231	396	524	570	158
90°	1	86	234	351	394	5
95°	1	23	121	220	254	1
105°	2	3	20	59	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°	4013.5	4013.5	4013.5	4013.5	4013.5
2.5°	4018.3	4012.6	3994.6	4012.6	4011.6
5°	4005.0	3997.4	3979.5	3998.4	3998.4
7.5°	3978.5	3975.7	3959.6	3981.4	3981.4
10°	3947.3	3946.3	3933.1	3956.8	3957.7
12.5°	3903.8	3907.6	3895.3	3918.0	3920.8
15°	3852.7	3859.3	3848.9	3870.7	3869.7
17.5°	3796.9	3800.6	3793.1	3817.7	3816.7
20°	3727.8	3732.5	3726.8	3752.4	3755.2
22.5°	3651.2	3657.8	3656.8	3683.3	3690.9
25°	3569.8	3572.6	3576.4	3606.7	3612.4
27.5°	3479.9	3484.6	3491.3	3518.7	3524.4
30°	3381.5	3389.1	3396.6	3425.0	3432.6
32.5°	3277.4	3285.0	3294.5	3331.4	3335.1
35°	3160.1	3174.3	3187.5	3219.7	3233.0
37.5°	3042.8	3060.8	3073.1	3107.1	3117.5
40°	2918.8	2936.8	2956.7	2992.6	2999.3
42.5°	2789.2	2810.0	2833.7	2865.9	2877.2
45°	2658.7	2682.3	2704.1	2730.6	2743.8
47.5°	2517.7	2541.3	2567.8	2598.1	2606.6
50°	2372.0	2399.4	2427.8	2456.2	2471.3
52.5°	2222.5	2255.6	2287.8	2318.0	2332.2
55°	2074.9	2099.5	2138.3	2169.5	2183.7
57.5°	1921.6	1942.4	1977.4	2028.5	2036.1
60°	1765.5	1784.4	1820.4	1862.0	1879.0
62.5°	1593.3	1618.8	1656.7	1709.7	1724.8
65°	1425.8	1450.4	1500.6	1560.2	1584.8
67.5°	1264.0	1272.6	1336.9	1399.3	1439.1
70°	1072.9	1105.1	1179.8	1256.5	1286.8
72.5°	908.3	940.5	1022.8	1112.7	1150.5
75°	721.9	766.4	878.0	983.0	1019.9
77.5°	558.2	607.4	745.6	851.5	894.1
80°	389.8	466.4	616.9	736.1	782.5
82.5°	245.1	339.7	500.5	625.4	666.1
85°	124.9	230.9	396.4	524.2	570.5
87.5°	33.1	149.5	308.4	430.5	477.8
90°	0.9	86.1	233.7	351.0	393.6
92.5°	0.9	48.3	174.1	279.1	322.6
95°	0.9	22.7	121.1	219.5	253.6
97.5°	0.9	9.5	83.3	165.6	199.6
100°	0.9	4.7	53.0	120.2	149.5
102.5°	1.9	2.8	33.1	86.1	109.8
105°	1.9	2.8	19.9	58.7	78.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	2.8	3.8	16.1	23.7
115°	2.8	2.8	3.8	10.4	15.1
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	11.4	39.7	53.9
110°	2.8	2.8	6.6	24.6	36.0



(END OF REPORT)