

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: P580637

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580637
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-LD4-2HI-35-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

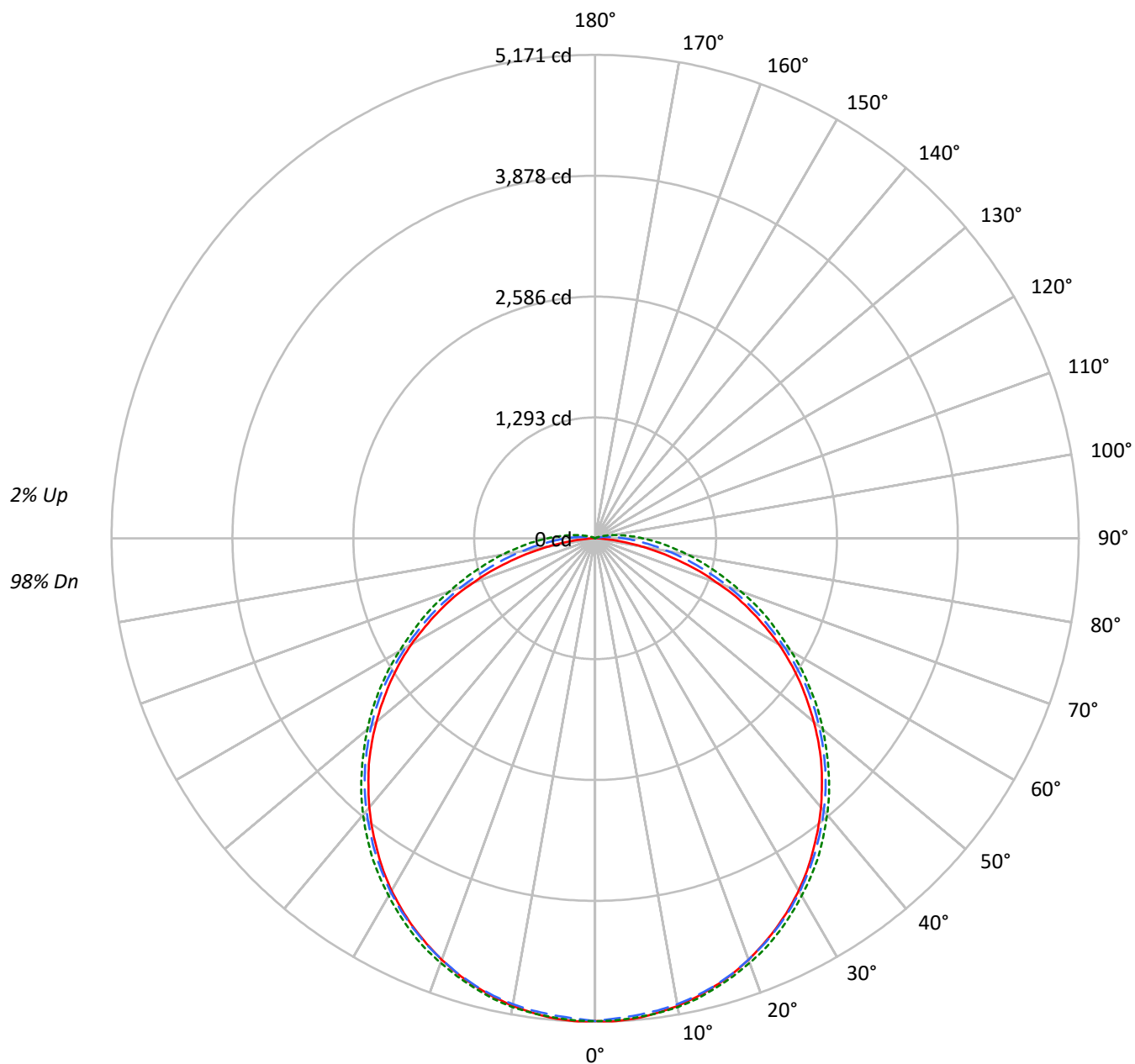
Lumens per Lamp: N/A
Luminaire Lumens: 15616.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 172.4
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°	20848	20848	20848
5°	20845	20102	19974
10°	20744	19480	19183
15°	20603	18839	18351
20°	20451	18165	17561
25°	20263	17493	16789
30°	20041	16800	15976
35°	19750	16068	15184
40°	19452	15315	14326
45°	19132	14516	13436
50°	18703	13634	12513
55°	18247	12689	11536
60°	17702	11545	10460
65°	16775	10304	9399
70°	15412	8906	8232
75°	13443	7420	7141
80°	10427	5973	6101
85°	6011	4535	5063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.8	3.1
10°-20°	1402.0	9.0
20°-30°	2127.2	13.6
30°-40°	2572.2	16.5
40°-50°	2683.9	17.2
50°-60°	2453.9	15.7
60°-70°	1912.9	12.2
70°-80°	1196.6	7.7
80°-90°	543.5	3.5
90°-100°	182.2	1.2
100°-110°	45.7	0.3
110°-120°	7.2	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°	4017.9	25.7
0°-40°	6590.1	42.2
0°-60°	11727.9	75.1
0°-90°	15380.9	98.5
90°-120°	235.1	1.5
90°-150°	235.1	1.5
90°-180°	235.0	1.5
0°-180°	15616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5165	5165	5165	5165	5165	
5°	5154	5144	5121	5145	5145	489
15°	4958	4966	4953	4981	4980	1400
25°	4594	4598	4602	4641	4649	2117
35°	4067	4085	4102	4143	4160	2545
45°	3421	3452	3480	3514	3531	2636
55°	2670	2702	2752	2792	2810	2385
65°	1835	1866	1931	2008	2039	1815
75°	929	986	1130	1265	1312	990
85°	161	297	510	674	734	203
90°	1	111	301	452	506	6
95°	1	29	156	282	326	1
105°	2	4	26	76	101	3
115°	4	4	5	13	20	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°	5164.8	5164.8	5164.8	5164.8	5164.8
2.5°	5170.9	5163.6	5140.5	5163.6	5162.4
5°	5153.9	5144.1	5121.0	5145.3	5145.3
7.5°	5119.8	5116.1	5095.4	5123.4	5123.4
10°	5079.6	5078.4	5061.3	5091.8	5093.0
12.5°	5023.6	5028.5	5012.6	5041.9	5045.5
15°	4957.8	4966.4	4953.0	4981.0	4979.8
17.5°	4886.0	4890.9	4881.1	4912.8	4911.6
20°	4797.1	4803.2	4795.9	4828.8	4832.4
22.5°	4698.5	4707.0	4705.8	4739.9	4749.6
25°	4593.8	4597.5	4602.3	4641.3	4648.6
27.5°	4478.1	4484.2	4492.7	4528.1	4535.4
30°	4351.5	4361.2	4371.0	4407.5	4417.3
32.5°	4217.6	4227.3	4239.5	4287.0	4291.8
35°	4066.6	4084.9	4101.9	4143.3	4160.4
37.5°	3915.6	3938.8	3954.6	3998.4	4011.8
40°	3756.1	3779.3	3804.8	3851.1	3859.6
42.5°	3589.3	3616.1	3646.5	3687.9	3702.6
45°	3421.3	3451.7	3479.7	3513.8	3530.9
47.5°	3239.9	3270.3	3304.4	3343.4	3354.3
50°	3052.4	3087.7	3124.2	3160.7	3180.2
52.5°	2860.0	2902.6	2944.0	2983.0	3001.3
55°	2670.1	2701.7	2751.7	2791.8	2810.1
57.5°	2472.8	2499.6	2544.7	2610.4	2620.2
60°	2271.9	2296.3	2342.6	2396.1	2418.0
62.5°	2050.3	2083.2	2131.9	2200.1	2219.6
65°	1834.8	1866.5	1931.0	2007.7	2039.4
67.5°	1626.6	1637.6	1720.4	1800.8	1851.9
70°	1380.7	1422.1	1518.3	1616.9	1655.9
72.5°	1168.8	1210.2	1316.2	1431.8	1480.5
75°	929.0	986.2	1129.9	1265.0	1312.5
77.5°	718.4	781.7	959.4	1095.8	1150.6
80°	501.6	600.3	793.8	947.3	1006.9
82.5°	315.3	437.1	644.1	804.8	857.2
85°	160.7	297.1	510.2	674.5	734.2
87.5°	42.6	192.4	396.9	554.0	614.9
90°	1.2	110.8	300.7	451.7	506.5
92.5°	1.2	62.1	224.0	359.2	415.2
95°	1.2	29.2	155.8	282.5	326.3
97.5°	1.2	12.2	107.1	213.1	256.9
100°	1.2	6.1	68.2	154.6	192.4
102.5°	2.4	3.7	42.6	110.8	141.2
105°	2.4	3.7	25.6	75.5	101.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	3.7	4.9	20.7	30.4
115°	3.7	3.7	4.9	13.4	19.5
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°	2.4	3.7	14.6	51.1	69.4
110°	3.7	3.7	8.5	31.7	46.3



(END OF REPORT)