

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: P580654

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580654
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
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

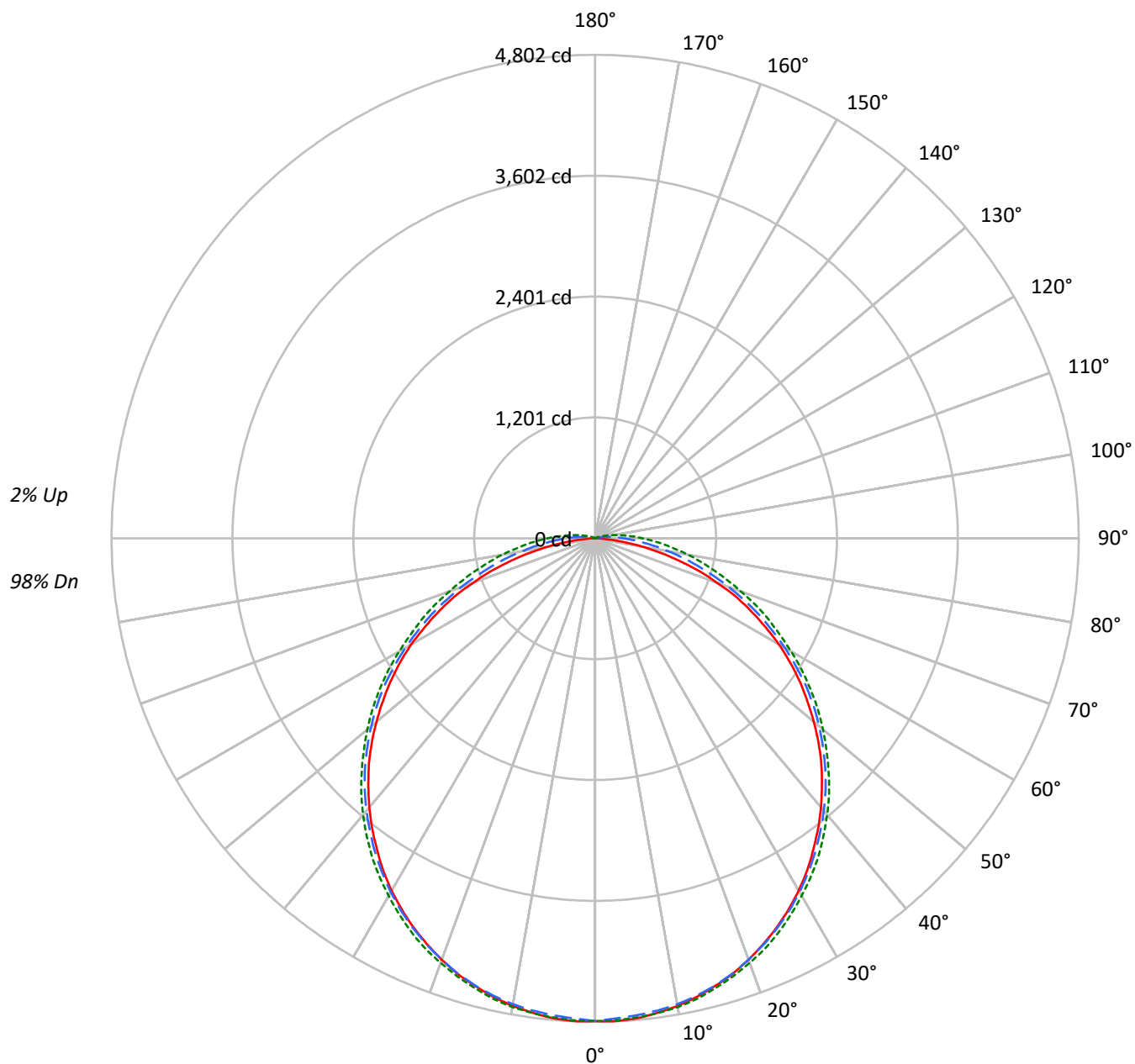
Lumens per Lamp: N/A
Luminaire Lumens: 14502.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

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°	19361	19361	19361
5°	19358	18668	18550
10°	19264	18090	17815
15°	19133	17494	17042
20°	18992	16870	16309
25°	18817	16245	15591
30°	18611	15602	14836
35°	18342	14922	14101
40°	18064	14222	13304
45°	17767	13481	12478
50°	17369	12661	11620
55°	16946	11784	10713
60°	16440	10721	9714
65°	15578	9569	8728
70°	14313	8270	7644
75°	12484	6891	6632
80°	9683	5547	5666
85°	5584	4211	4702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.9	3.1
10°-20°	1301.9	9.0
20°-30°	1975.5	13.6
30°-40°	2388.7	16.5
40°-50°	2492.4	17.2
50°-60°	2278.8	15.7
60°-70°	1776.5	12.2
70°-80°	1111.3	7.7
80°-90°	504.7	3.5
90°-100°	169.2	1.2
100°-110°	42.5	0.3
110°-120°	6.7	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°	3731.3	25.7
0°-40°	6120.0	42.2
0°-60°	10891.2	75.1
0°-90°	14283.7	98.5
90°-120°	218.3	1.5
90°-150°	218.3	1.5
90°-180°	218.0	1.5
0°-180°	14502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4796	4796	4796	4796	4796	
5°	4786	4777	4756	4778	4778	455
15°	4604	4612	4600	4626	4624	1300
25°	4266	4270	4274	4310	4317	1966
35°	3776	3794	3809	3848	3864	2364
45°	3177	3206	3232	3263	3279	2448
55°	2480	2509	2555	2593	2610	2215
65°	1704	1733	1793	1864	1894	1686
75°	863	916	1049	1175	1219	920
85°	149	276	474	626	682	189
90°	1	103	279	420	470	6
95°	1	27	145	262	303	1
105°	2	3	24	70	94	2
115°	3	3	4	12	18	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	



TEST NUMBER: P580654

CATALOG NUMBER: HVSL4-8-LD4-2STD-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4796.4	4796.4	4796.4	4796.4	4796.4
2.5°	4802.0	4795.3	4773.8	4795.3	4794.1
5°	4786.2	4777.2	4755.7	4778.3	4778.3
7.5°	4754.6	4751.2	4731.9	4757.9	4757.9
10°	4717.2	4716.1	4700.3	4728.5	4729.7
12.5°	4665.2	4669.7	4655.0	4682.2	4685.6
15°	4604.2	4612.1	4599.6	4625.7	4624.5
17.5°	4537.5	4542.0	4532.9	4562.3	4561.2
20°	4454.9	4460.6	4453.8	4484.3	4487.7
22.5°	4363.3	4371.2	4370.1	4401.8	4410.8
25°	4266.1	4269.5	4274.0	4310.2	4317.0
27.5°	4158.7	4164.3	4172.2	4205.0	4211.8
30°	4041.1	4050.1	4059.2	4093.1	4102.1
32.5°	3916.7	3925.8	3937.1	3981.2	3985.7
35°	3776.5	3793.5	3809.3	3847.7	3863.6
37.5°	3636.3	3657.8	3672.5	3713.2	3725.6
40°	3488.2	3509.7	3533.4	3576.4	3584.3
42.5°	3333.3	3358.1	3386.4	3424.9	3438.4
45°	3177.2	3205.5	3231.5	3263.2	3279.0
47.5°	3008.8	3037.0	3068.7	3104.9	3115.1
50°	2834.6	2867.4	2901.3	2935.3	2953.4
52.5°	2656.0	2695.6	2734.0	2770.2	2787.2
55°	2479.6	2509.0	2555.4	2592.7	2609.6
57.5°	2296.4	2321.3	2363.1	2424.2	2433.2
60°	2109.9	2132.5	2175.4	2225.2	2245.5
62.5°	1904.1	1934.6	1979.8	2043.2	2061.2
65°	1703.9	1733.3	1793.3	1864.5	1893.9
67.5°	1510.6	1520.8	1597.7	1672.3	1719.8
70°	1282.2	1320.6	1410.0	1501.6	1537.7
72.5°	1085.5	1123.9	1222.3	1329.7	1374.9
75°	862.7	915.9	1049.3	1174.8	1218.9
77.5°	667.1	725.9	891.0	1017.6	1068.5
80°	465.8	557.4	737.2	879.7	935.1
82.5°	292.8	405.9	598.1	747.4	796.0
85°	149.3	275.9	473.8	626.4	681.8
87.5°	39.6	178.6	368.6	514.5	571.0
90°	1.1	102.9	279.3	419.5	470.4
92.5°	1.1	57.7	208.0	333.6	385.6
95°	1.1	27.1	144.7	262.3	303.0
97.5°	1.1	11.3	99.5	197.9	238.6
100°	1.1	5.7	63.3	143.6	178.6
102.5°	2.3	3.4	39.6	102.9	131.2
105°	2.3	3.4	23.7	70.1	93.8



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CATALOG NUMBER: HVSL4-8-LD4-2STD-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	3.4	4.5	19.2	28.3
115°	3.4	3.4	4.5	12.4	18.1
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°	2.3	3.4	13.6	47.5	64.4
110°	3.4	3.4	7.9	29.4	43.0



(END OF REPORT)