

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: P580330

Luminaire Tested: **HVSL2-2-LD4-HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580330
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: HVSL2-2-LD4-HI-50-UNV-O-EDD
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

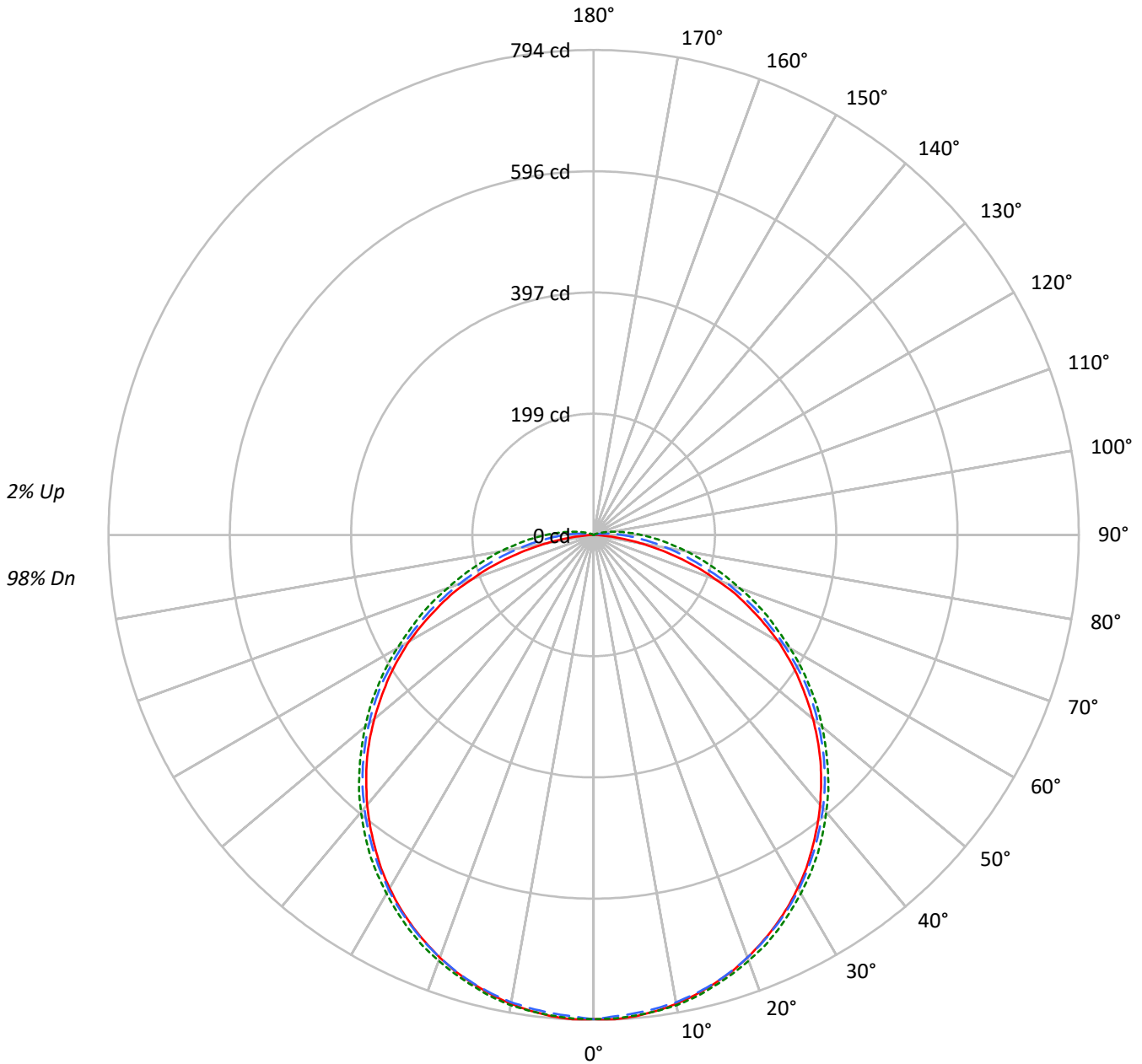
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2397.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 21.6
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

TEST NUMBER: P580330
CATALOG NUMBER: HVSL2-2-LD4-HI-50-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580330

CATALOG NUMBER: HVSL2-2-LD4-HI-50-UNV-O-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	25601	25601	25601
5°	25458	23881	23541
10°	25196	22443	21792
15°	24885	21088	20153
20°	24557	19782	18688
25°	24183	18544	17336
30°	23761	17344	16026
35°	23250	16153	14805
40°	22717	14984	13577
45°	22139	13810	12375
50°	21409	12594	11189
55°	20617	11355	9999
60°	19679	9980	8774
65°	18254	8569	7605
70°	16279	7088	6403
75°	13570	5606	5312
80°	9723	4241	4309
85°	4687	2973	3359



TEST NUMBER: P580330

CATALOG NUMBER: HVSL2-2-LD4-HI-50-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.1
10°-20°	215.2	9.0
20°-30°	326.5	13.6
30°-40°	394.8	16.5
40°-50°	412.0	17.2
50°-60°	376.7	15.7
60°-70°	293.6	12.2
70°-80°	183.7	7.7
80°-90°	83.4	3.5
90°-100°	28.0	1.2
100°-110°	7.0	0.3
110°-120°	1.1	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°	616.7	25.7
0°-40°	1011.5	42.2
0°-60°	1800.2	75.1
0°-90°	2360.9	98.5
90°-120°	36.1	1.5
90°-150°	36.1	1.5
90°-180°	36.0	1.5
0°-180°	2397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	791	790	786	790	790	75
15°	761	762	760	765	764	215
25°	705	706	706	712	714	325
35°	624	627	630	636	639	391
45°	525	530	534	539	542	405
55°	410	415	422	428	431	366
65°	282	286	296	308	313	279
75°	143	151	173	194	202	152
85°	25	46	78	104	113	31
90°	0	17	46	69	78	1
95°	0	4	24	43	50	0
105°	0	1	4	12	16	0
115°	1	1	1	2	3	0
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	0



TEST NUMBER: P580330

CATALOG NUMBER: HVSL2-2-LD4-HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.8	792.8	792.8	792.8	792.8
2.5°	793.7	792.6	789.0	792.6	792.4
5°	791.1	789.6	786.1	789.8	789.8
7.5°	785.9	785.3	782.1	786.4	786.4
10°	779.7	779.5	776.9	781.6	781.8
12.5°	771.1	771.9	769.4	773.9	774.5
15°	761.0	762.3	760.3	764.6	764.4
17.5°	750.0	750.7	749.2	754.1	753.9
20°	736.3	737.3	736.2	741.2	741.8
22.5°	721.2	722.5	722.3	727.6	729.1
25°	705.1	705.7	706.4	712.4	713.5
27.5°	687.4	688.3	689.6	695.0	696.2
30°	667.9	669.4	670.9	676.5	678.0
32.5°	647.4	648.9	650.7	658.0	658.8
35°	624.2	627.0	629.6	636.0	638.6
37.5°	601.0	604.6	607.0	613.7	615.8
40°	576.6	580.1	584.0	591.1	592.4
42.5°	550.9	555.1	559.7	566.1	568.3
45°	525.2	529.8	534.1	539.4	542.0
47.5°	497.3	502.0	507.2	513.2	514.9
50°	468.5	474.0	479.6	485.2	488.2
52.5°	439.0	445.5	451.9	457.9	460.7
55°	409.8	414.7	422.4	428.5	431.3
57.5°	379.6	383.7	390.6	400.7	402.2
60°	348.7	352.5	359.6	367.8	371.2
62.5°	314.7	319.8	327.2	337.7	340.7
65°	281.6	286.5	296.4	308.2	313.0
67.5°	249.7	251.4	264.1	276.4	284.3
70°	211.9	218.3	233.1	248.2	254.2
72.5°	179.4	185.8	202.0	219.8	227.3
75°	142.6	151.4	173.4	194.2	201.5
77.5°	110.3	120.0	147.3	168.2	176.6
80°	77.0	92.1	121.9	145.4	154.6
82.5°	48.4	67.1	98.9	123.5	131.6
85°	24.7	45.6	78.3	103.5	112.7
87.5°	6.5	29.5	60.9	85.0	94.4
90°	0.2	17.0	46.2	69.3	77.7
92.5°	0.2	9.5	34.4	55.1	63.7
95°	0.2	4.5	23.9	43.4	50.1
97.5°	0.2	1.9	16.4	32.7	39.4
100°	0.2	0.9	10.5	23.7	29.5
102.5°	0.4	0.6	6.5	17.0	21.7
105°	0.4	0.6	3.9	11.6	15.5



TEST NUMBER: P580330

CATALOG NUMBER: HVSL2-2-LD4-HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.7	3.2	4.7
115°	0.6	0.6	0.7	2.1	3.0
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°	0.4	0.6	2.2	7.8	10.7
110°	0.6	0.6	1.3	4.9	7.1



(END OF REPORT)