

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: P580694

Luminaire Tested: **HVSL8-2-LD4-2LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580694
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: HVSL8-2-LD4-2LO-35-UNV-O-EDD
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

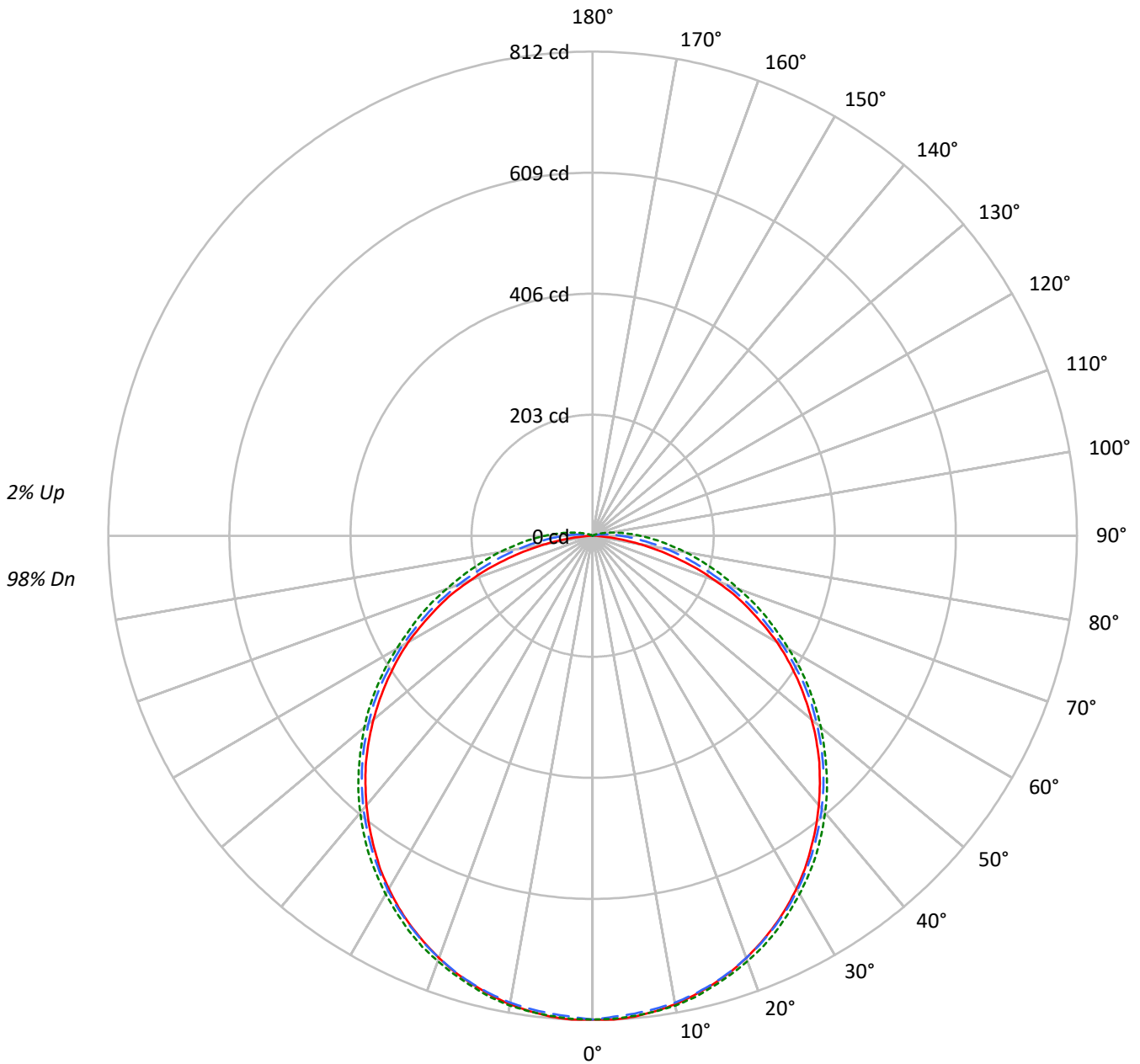
Lumens per Lamp: N/A
Luminaire Lumens: 2453.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 23.8
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

TEST NUMBER: P580694

CATALOG NUMBER: HVSL8-2-LD4-2LO-35-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580694

CATALOG NUMBER: HVSL8-2-LD4-2LO-35-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°	6550	6550	6550
5°	6513	6387	6409
10°	6446	6257	6281
15°	6367	6116	6127
20°	6283	5961	5977
25°	6187	5801	5825
30°	6079	5634	5652
35°	5948	5450	5481
40°	5811	5259	5281
45°	5663	5050	5065
50°	5478	4812	4834
55°	5275	4551	4578
60°	5036	4219	4279
65°	4670	3848	3984
70°	4166	3417	3639
75°	3471	2945	3327
80°	2488	2481	3042
85°	1195	2008	2768



TEST NUMBER: P580694

CATALOG NUMBER: HVSL8-2-LD4-2LO-35-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.1
10°-20°	220.2	9.0
20°-30°	334.2	13.6
30°-40°	404.0	16.5
40°-50°	421.6	17.2
50°-60°	385.5	15.7
60°-70°	300.5	12.2
70°-80°	188.0	7.7
80°-90°	85.4	3.5
90°-100°	28.6	1.2
100°-110°	7.2	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°	631.1	25.7
0°-40°	1035.2	42.2
0°-60°	1842.2	75.1
0°-90°	2416.1	98.5
90°-120°	37.0	1.5
90°-150°	37.0	1.5
90°-180°	37.0	1.5
0°-180°	2453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	810	808	804	808	808	77
15°	779	780	778	782	782	220
25°	722	722	723	729	730	333
35°	639	642	644	651	654	400
45°	537	542	547	552	555	414
55°	419	424	432	438	441	375
65°	288	293	303	315	320	285
75°	146	155	178	199	206	156
85°	25	47	80	106	115	32
90°	0	17	47	71	80	1
95°	0	5	24	44	51	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: P580694

CATALOG NUMBER: HVSL8-2-LD4-2LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.3	811.3	811.3	811.3	811.3
2.5°	812.3	811.1	807.5	811.1	810.9
5°	809.6	808.1	804.4	808.2	808.2
7.5°	804.2	803.7	800.4	804.8	804.8
10°	797.9	797.7	795.0	799.8	800.0
12.5°	789.1	789.9	787.4	792.0	792.6
15°	778.8	780.1	778.0	782.4	782.2
17.5°	767.5	768.3	766.7	771.7	771.5
20°	753.5	754.5	753.4	758.5	759.1
22.5°	738.1	739.4	739.2	744.6	746.1
25°	721.6	722.2	722.9	729.1	730.2
27.5°	703.4	704.4	705.7	711.3	712.4
30°	683.5	685.1	686.6	692.3	693.9
32.5°	662.5	664.0	666.0	673.4	674.2
35°	638.8	641.7	644.3	650.8	653.5
37.5°	615.1	618.7	621.2	628.1	630.2
40°	590.0	593.7	597.7	604.9	606.3
42.5°	563.8	568.0	572.8	579.3	581.6
45°	537.4	542.2	546.6	552.0	554.6
47.5°	508.9	513.7	519.1	525.2	526.9
50°	479.5	485.0	490.8	496.5	499.6
52.5°	449.3	456.0	462.5	468.6	471.4
55°	419.4	424.4	432.2	438.5	441.4
57.5°	388.4	392.6	399.7	410.1	411.6
60°	356.9	360.7	368.0	376.4	379.8
62.5°	322.1	327.2	334.9	345.6	348.7
65°	288.2	293.2	303.3	315.4	320.4
67.5°	255.5	257.2	270.2	282.9	290.9
70°	216.9	223.4	238.5	254.0	260.1
72.5°	183.6	190.1	206.7	224.9	232.6
75°	145.9	154.9	177.5	198.7	206.2
77.5°	112.8	122.8	150.7	172.1	180.7
80°	78.8	94.3	124.7	148.8	158.2
82.5°	49.5	68.7	101.2	126.4	134.6
85°	25.2	46.7	80.1	106.0	115.3
87.5°	6.7	30.2	62.3	87.0	96.6
90°	0.2	17.4	47.2	71.0	79.6
92.5°	0.2	9.8	35.2	56.4	65.2
95°	0.2	4.6	24.5	44.4	51.3
97.5°	0.2	1.9	16.8	33.5	40.4
100°	0.2	1.0	10.7	24.3	30.2
102.5°	0.4	0.6	6.7	17.4	22.2
105°	0.4	0.6	4.0	11.9	15.9



TEST NUMBER: P580694

CATALOG NUMBER: HVSL8-2-LD4-2LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.3	4.8
115°	0.6	0.6	0.8	2.1	3.1
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°	0.4	0.6	2.3	8.0	10.9
110°	0.6	0.6	1.3	5.0	7.3



(END OF REPORT)