

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: P580365

Luminaire Tested: **HVSL2-3-LD4-STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580365  
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: HVSL2-3-LD4-STD-35-UNV-O-EDD-90  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

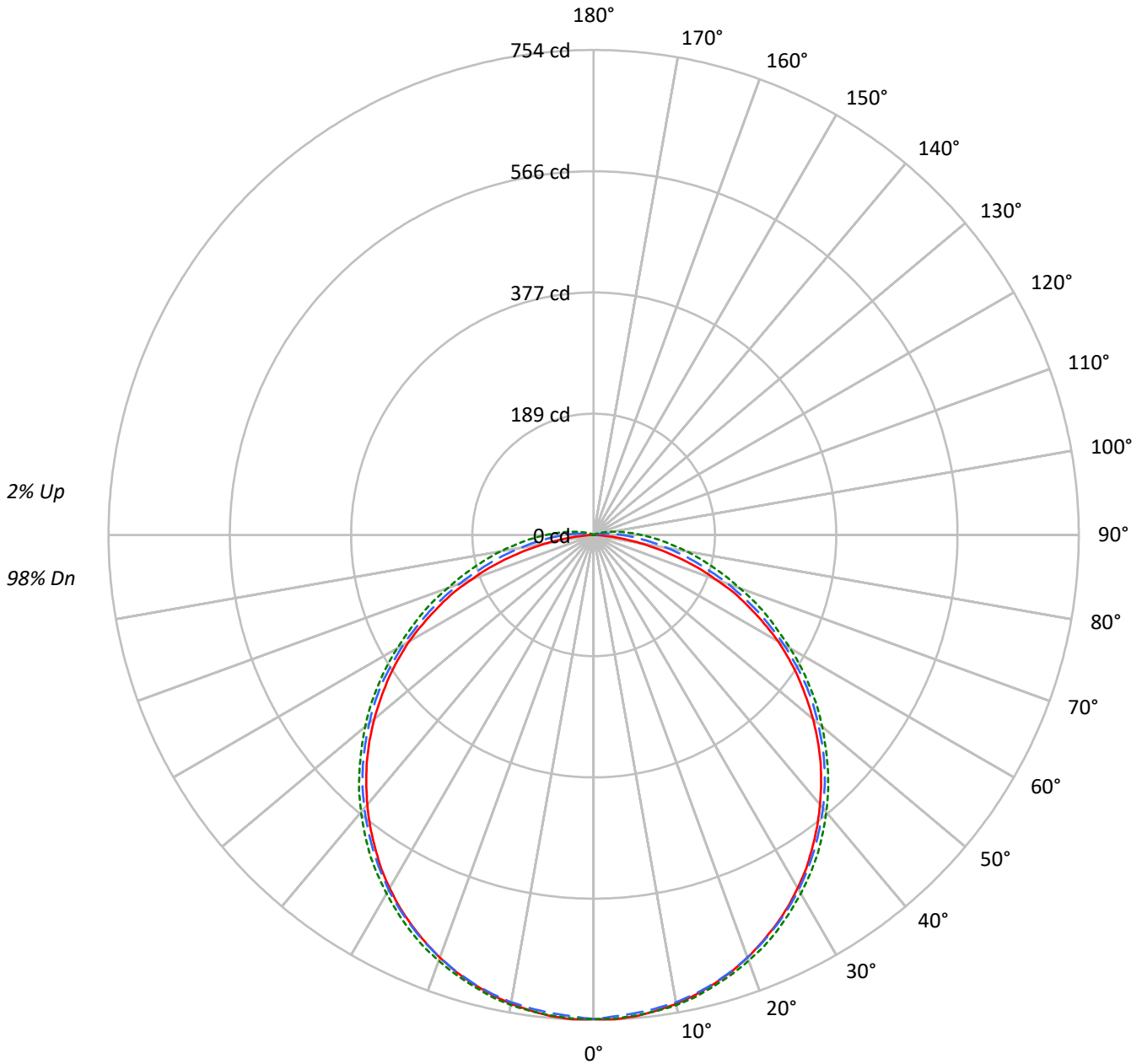
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2276.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 24.5  
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: P580365

CATALOG NUMBER: HVSL2-3-LD4-STD-35-UNV-O-EDD-90

### 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					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°	16206	16206	16206
5°	16155	15141	14901
10°	16026	14250	13794
15°	15868	13407	12757
20°	15701	12592	11829
25°	15501	11819	10974
30°	15275	11067	10145
35°	14993	10317	9373
40°	14698	9581	8595
45°	14381	8841	7833
50°	13975	8069	7082
55°	13534	7284	6331
60°	13004	6410	5553
65°	12171	5511	4814
70°	10987	4565	4052
75°	9328	3618	3362
80°	6891	2741	2728
85°	3535	1928	2126



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	3.1
10°-20°	204.3	9.0
20°-30°	310.0	13.6
30°-40°	374.9	16.5
40°-50°	391.2	17.2
50°-60°	357.7	15.7
60°-70°	278.8	12.2
70°-80°	174.4	7.7
80°-90°	79.2	3.5
90°-100°	26.6	1.2
100°-110°	6.7	0.3
110°-120°	1.0	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°	585.6	25.7
0°-40°	960.5	42.2
0°-60°	1709.3	75.1
0°-90°	2241.7	98.5
90°-120°	34.2	1.5
90°-150°	34.2	1.5
90°-180°	34.0	1.5
0°-180°	2276.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	751	750	746	750	750	71
15°	723	724	722	726	726	204
25°	670	670	671	676	678	309
35°	593	595	598	604	606	371
45°	499	503	507	512	515	384
55°	389	394	401	407	410	348
65°	267	272	281	293	297	265
75°	135	144	165	184	191	144
85°	23	43	74	98	107	30
90°	0	16	44	66	74	1
95°	0	4	23	41	48	0
105°	0	0	4	11	15	0
115°	0	0	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



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CATALOG NUMBER: HVSL2-3-LD4-STD-35-UNV-O-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	752.8	752.8	752.8	752.8	752.8
2.5°	753.7	752.6	749.2	752.6	752.4
5°	751.2	749.7	746.4	749.9	749.9
7.5°	746.2	745.7	742.6	746.7	746.7
10°	740.3	740.2	737.7	742.1	742.3
12.5°	732.2	732.9	730.6	734.8	735.4
15°	722.6	723.8	721.9	726.0	725.8
17.5°	712.1	712.8	711.4	716.0	715.9
20°	699.2	700.1	699.0	703.8	704.3
22.5°	684.8	686.0	685.9	690.8	692.3
25°	669.5	670.1	670.8	676.5	677.5
27.5°	652.7	653.6	654.8	660.0	661.0
30°	634.2	635.6	637.1	642.4	643.8
32.5°	614.7	616.1	617.9	624.8	625.5
35°	592.7	595.4	597.8	603.9	606.4
37.5°	570.7	574.1	576.4	582.8	584.7
40°	547.4	550.8	554.5	561.3	562.5
42.5°	523.1	527.0	531.5	537.5	539.6
45°	498.6	503.1	507.2	512.1	514.6
47.5°	472.2	476.6	481.6	487.3	488.9
50°	444.9	450.0	455.3	460.7	463.5
52.5°	416.8	423.1	429.1	434.8	437.4
55°	389.2	393.8	401.0	406.9	409.6
57.5°	360.4	364.3	370.9	380.5	381.9
60°	331.1	334.7	341.4	349.2	352.4
62.5°	298.8	303.6	310.7	320.7	323.5
65°	267.4	272.0	281.4	292.6	297.2
67.5°	237.1	238.7	250.7	262.5	269.9
70°	201.2	207.3	221.3	235.7	241.3
72.5°	170.4	176.4	191.8	208.7	215.8
75°	135.4	143.7	164.7	184.4	191.3
77.5°	104.7	113.9	139.8	159.7	167.7
80°	73.1	87.5	115.7	138.1	146.8
82.5°	46.0	63.7	93.9	117.3	124.9
85°	23.4	43.3	74.4	98.3	107.0
87.5°	6.2	28.0	57.9	80.7	89.6
90°	0.2	16.1	43.8	65.8	73.8
92.5°	0.2	9.1	32.7	52.3	60.5
95°	0.2	4.3	22.7	41.2	47.6
97.5°	0.2	1.8	15.6	31.1	37.4
100°	0.2	0.9	9.9	22.5	28.0
102.5°	0.4	0.5	6.2	16.1	20.6
105°	0.4	0.5	3.7	11.0	14.7



TEST NUMBER: P580365

CATALOG NUMBER: HVSL2-3-LD4-STD-35-UNV-O-EDD-90

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.0	4.4
115°	0.5	0.5	0.7	2.0	2.8
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	0.5	2.1	7.5	10.1
110°	0.5	0.5	1.2	4.6	6.7



(END OF REPORT)