

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: P580525

Luminaire Tested: **HVSL4-3-LD4-1LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580525
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: HVSL4-3-LD4-1LO-35-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

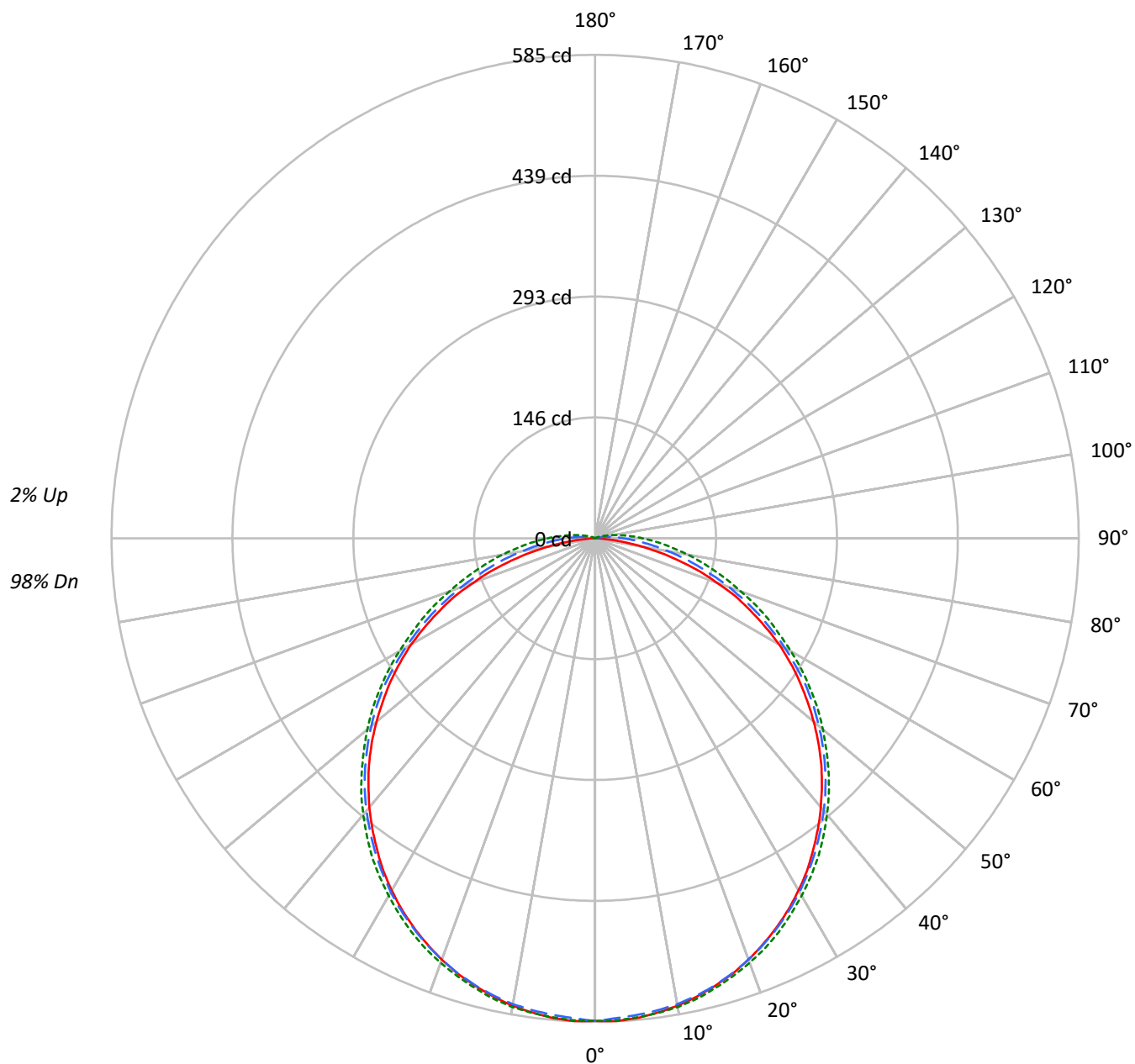
Lumens per Lamp: N/A
Luminaire Lumens: 1766.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 17.3
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: P580525

CATALOG NUMBER: HVSL4-3-LD4-1LO-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
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°	6287	6287	6287
5°	6267	6049	6024
10°	6217	5851	5785
15°	6157	5647	5534
20°	6091	5436	5296
25°	6014	5225	5063
30°	5926	5008	4817
35°	5817	4781	4579
40°	5703	4547	4320
45°	5580	4300	4052
50°	5422	4029	3773
55°	5251	3741	3479
60°	5045	3393	3155
65°	4722	3019	2834
70°	4262	2599	2483
75°	3620	2155	2153
80°	2672	1724	1840
85°	1375	1298	1526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.1
10°-20°	158.5	9.0
20°-30°	240.6	13.6
30°-40°	290.9	16.5
40°-50°	303.5	17.2
50°-60°	277.5	15.7
60°-70°	216.3	12.3
70°-80°	135.3	7.7
80°-90°	61.5	3.5
90°-100°	20.6	1.2
100°-110°	5.2	0.3
110°-120°	0.8	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°	454.4	25.7
0°-40°	745.3	42.2
0°-60°	1326.3	75.1
0°-90°	1739.4	98.5
90°-120°	26.6	1.5
90°-150°	26.6	1.5
90°-180°	27.0	1.5
0°-180°	1766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	583	582	579	582	582	55
15°	561	562	560	563	563	158
25°	520	520	520	525	526	239
35°	460	462	464	469	470	288
45°	387	390	394	397	399	298
55°	302	306	311	316	318	270
65°	208	211	218	227	231	205
75°	105	112	128	143	148	112
85°	18	34	58	76	83	23
90°	0	12	34	51	57	1
95°	0	3	18	32	37	0
105°	0	0	3	8	11	0
115°	0	0	1	2	2	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	



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CATALOG NUMBER: HVSL4-3-LD4-1LO-35-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.1	584.1	584.1	584.1	584.1
2.5°	584.8	583.9	581.3	583.9	583.8
5°	582.8	581.7	579.1	581.9	581.9
7.5°	579.0	578.6	576.2	579.4	579.4
10°	574.4	574.3	572.4	575.8	576.0
12.5°	568.1	568.7	566.9	570.2	570.6
15°	560.7	561.6	560.1	563.3	563.2
17.5°	552.6	553.1	552.0	555.6	555.4
20°	542.5	543.2	542.4	546.1	546.5
22.5°	531.4	532.3	532.2	536.0	537.1
25°	519.5	519.9	520.5	524.9	525.7
27.5°	506.4	507.1	508.1	512.1	512.9
30°	492.1	493.2	494.3	498.4	499.5
32.5°	477.0	478.1	479.4	484.8	485.4
35°	459.9	462.0	463.9	468.6	470.5
37.5°	442.8	445.4	447.2	452.2	453.7
40°	424.8	427.4	430.3	435.5	436.5
42.5°	405.9	408.9	412.4	417.1	418.7
45°	386.9	390.4	393.5	397.4	399.3
47.5°	366.4	369.8	373.7	378.1	379.3
50°	345.2	349.2	353.3	357.4	359.6
52.5°	323.4	328.3	332.9	337.3	339.4
55°	302.0	305.5	311.2	315.7	317.8
57.5°	279.7	282.7	287.8	295.2	296.3
60°	256.9	259.7	264.9	271.0	273.5
62.5°	231.9	235.6	241.1	248.8	251.0
65°	207.5	211.1	218.4	227.1	230.6
67.5°	184.0	185.2	194.6	203.6	209.4
70°	156.1	160.8	171.7	182.9	187.3
72.5°	132.2	136.9	148.8	161.9	167.4
75°	105.1	111.5	127.8	143.1	148.4
77.5°	81.2	88.4	108.5	123.9	130.1
80°	56.7	67.9	89.8	107.1	113.9
82.5°	35.7	49.4	72.8	91.0	96.9
85°	18.2	33.6	57.7	76.3	83.0
87.5°	4.8	21.8	44.9	62.6	69.5
90°	0.1	12.5	34.0	51.1	57.3
92.5°	0.1	7.0	25.3	40.6	47.0
95°	0.1	3.3	17.6	31.9	36.9
97.5°	0.1	1.4	12.1	24.1	29.1
100°	0.1	0.7	7.7	17.5	21.8
102.5°	0.3	0.4	4.8	12.5	16.0
105°	0.3	0.4	2.9	8.5	11.4



TEST NUMBER: P580525

CATALOG NUMBER: HVSL4-3-LD4-1LO-35-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.3	3.4
115°	0.4	0.4	0.6	1.5	2.2
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°	0.3	0.4	1.7	5.8	7.8
110°	0.4	0.4	1.0	3.6	5.2



(END OF REPORT)