

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: P580538

Luminaire Tested: **HVSL4-3-LD4-1STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580538
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-LD4-1STD-50-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

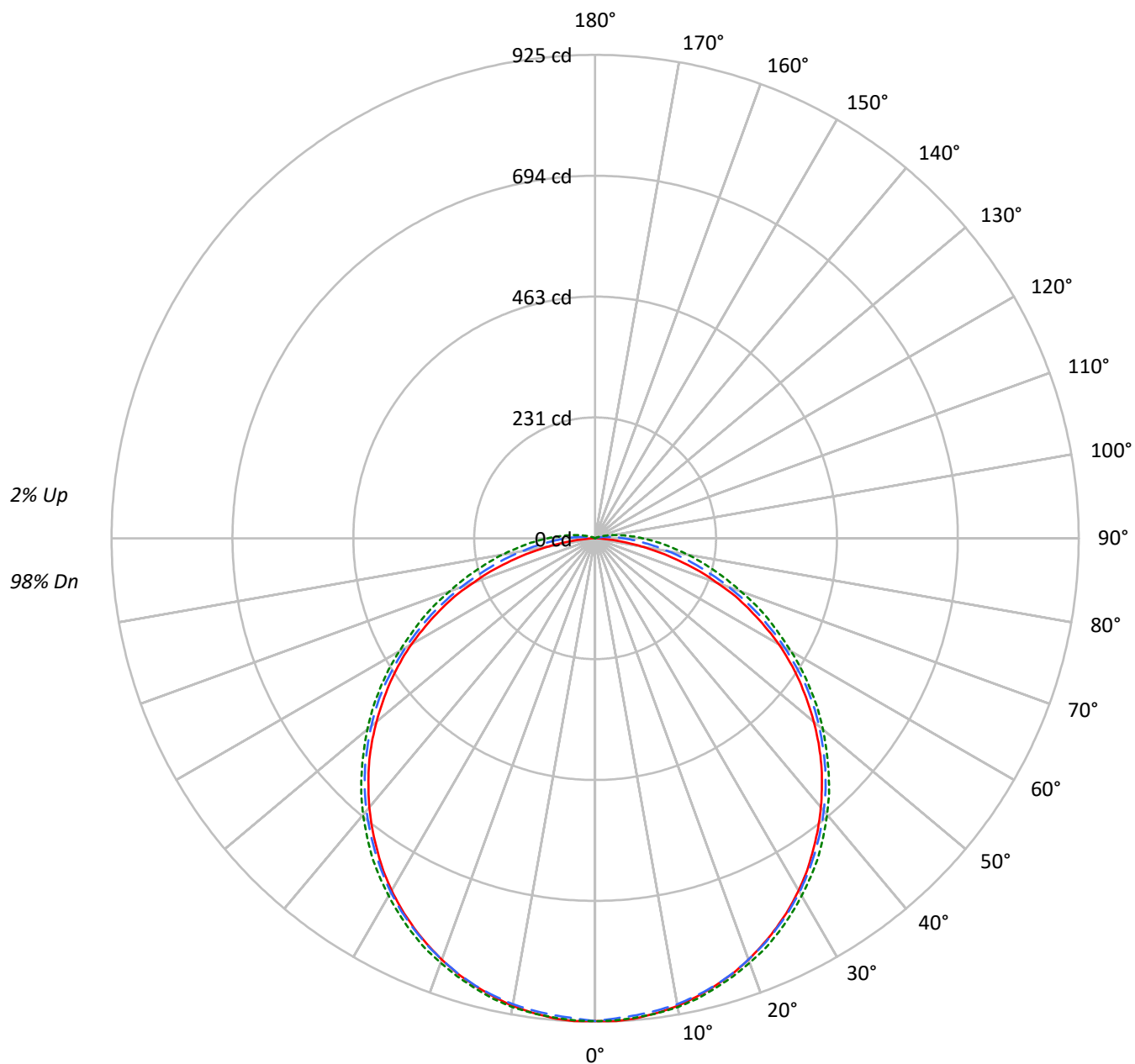
Lumens per Lamp: N/A
Luminaire Lumens: 2793.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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

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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°	9944	9944	9944
5°	9912	9567	9527
10°	9834	9253	9149
15°	9736	8932	8753
20°	9633	8596	8376
25°	9511	8262	8007
30°	9373	7920	7619
35°	9199	7560	7242
40°	9019	7191	6832
45°	8824	6802	6408
50°	8574	6373	5968
55°	8304	5915	5502
60°	7979	5367	4989
65°	7469	4774	4483
70°	6741	4110	3927
75°	5725	3408	3405
80°	4228	2727	2910
85°	2168	2051	2414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.1
10°-20°	250.8	9.0
20°-30°	380.5	13.6
30°-40°	460.0	16.5
40°-50°	480.0	17.2
50°-60°	438.9	15.7
60°-70°	342.1	12.2
70°-80°	214.0	7.7
80°-90°	97.2	3.5
90°-100°	32.6	1.2
100°-110°	8.2	0.3
110°-120°	1.3	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°	718.6	25.7
0°-40°	1178.7	42.2
0°-60°	2097.6	75.1
0°-90°	2751.0	98.5
90°-120°	42.1	1.5
90°-150°	42.1	1.5
90°-180°	42.0	1.5
0°-180°	2793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	922	920	916	920	920	88
15°	887	888	886	891	891	250
25°	822	822	823	830	831	379
35°	727	731	734	741	744	455
45°	612	617	622	628	632	472
55°	478	483	492	499	503	427
65°	328	334	345	359	365	325
75°	166	176	202	226	235	177
85°	29	53	91	121	131	36
90°	0	20	54	81	91	1
95°	0	5	28	50	58	0
105°	0	1	5	14	18	0
115°	1	1	1	2	4	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.8	923.8	923.8	923.8	923.8
2.5°	924.8	923.5	919.4	923.5	923.3
5°	921.8	920.1	915.9	920.3	920.3
7.5°	915.7	915.0	911.3	916.4	916.4
10°	908.5	908.3	905.2	910.7	910.9
12.5°	898.5	899.4	896.5	901.8	902.4
15°	886.7	888.3	885.9	890.9	890.7
17.5°	873.9	874.8	873.0	878.7	878.5
20°	858.0	859.1	857.8	863.7	864.3
22.5°	840.4	841.9	841.7	847.8	849.5
25°	821.6	822.3	823.1	830.1	831.4
27.5°	800.9	802.0	803.5	809.9	811.2
30°	778.3	780.0	781.8	788.3	790.0
32.5°	754.3	756.1	758.3	766.7	767.6
35°	727.3	730.6	733.6	741.1	744.1
37.5°	700.3	704.5	707.3	715.1	717.5
40°	671.8	675.9	680.5	688.8	690.3
42.5°	642.0	646.8	652.2	659.6	662.2
45°	611.9	617.4	622.4	628.5	631.5
47.5°	579.5	584.9	591.0	598.0	599.9
50°	545.9	552.2	558.8	565.3	568.8
52.5°	511.5	519.1	526.6	533.5	536.8
55°	477.6	483.2	492.1	499.3	502.6
57.5°	442.3	447.1	455.1	466.9	468.6
60°	406.3	410.7	419.0	428.6	432.5
62.5°	366.7	372.6	381.3	393.5	397.0
65°	328.2	333.8	345.4	359.1	364.8
67.5°	290.9	292.9	307.7	322.1	331.2
70°	246.9	254.3	271.6	289.2	296.2
72.5°	209.1	216.5	235.4	256.1	264.8
75°	166.2	176.4	202.1	226.3	234.7
77.5°	128.5	139.8	171.6	196.0	205.8
80°	89.7	107.4	142.0	169.4	180.1
82.5°	56.4	78.2	115.2	143.9	153.3
85°	28.7	53.1	91.2	120.6	131.3
87.5°	7.6	34.4	71.0	99.1	110.0
90°	0.2	19.8	53.8	80.8	90.6
92.5°	0.2	11.1	40.1	64.2	74.3
95°	0.2	5.2	27.9	50.5	58.4
97.5°	0.2	2.2	19.2	38.1	45.9
100°	0.2	1.1	12.2	27.7	34.4
102.5°	0.4	0.7	7.6	19.8	25.3
105°	0.4	0.7	4.6	13.5	18.1



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CATALOG NUMBER: HVSL4-3-LD4-1STD-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	3.7	5.4
115°	0.7	0.7	0.9	2.4	3.5
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	0.7	2.6	9.1	12.4
110°	0.7	0.7	1.5	5.7	8.3



(END OF REPORT)