

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: P580506

Luminaire Tested: **HVSL4-2-LD4-2LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580506
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: HVSL4-2-LD4-2LO-50-UNV-O-EDD
Description: 2 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

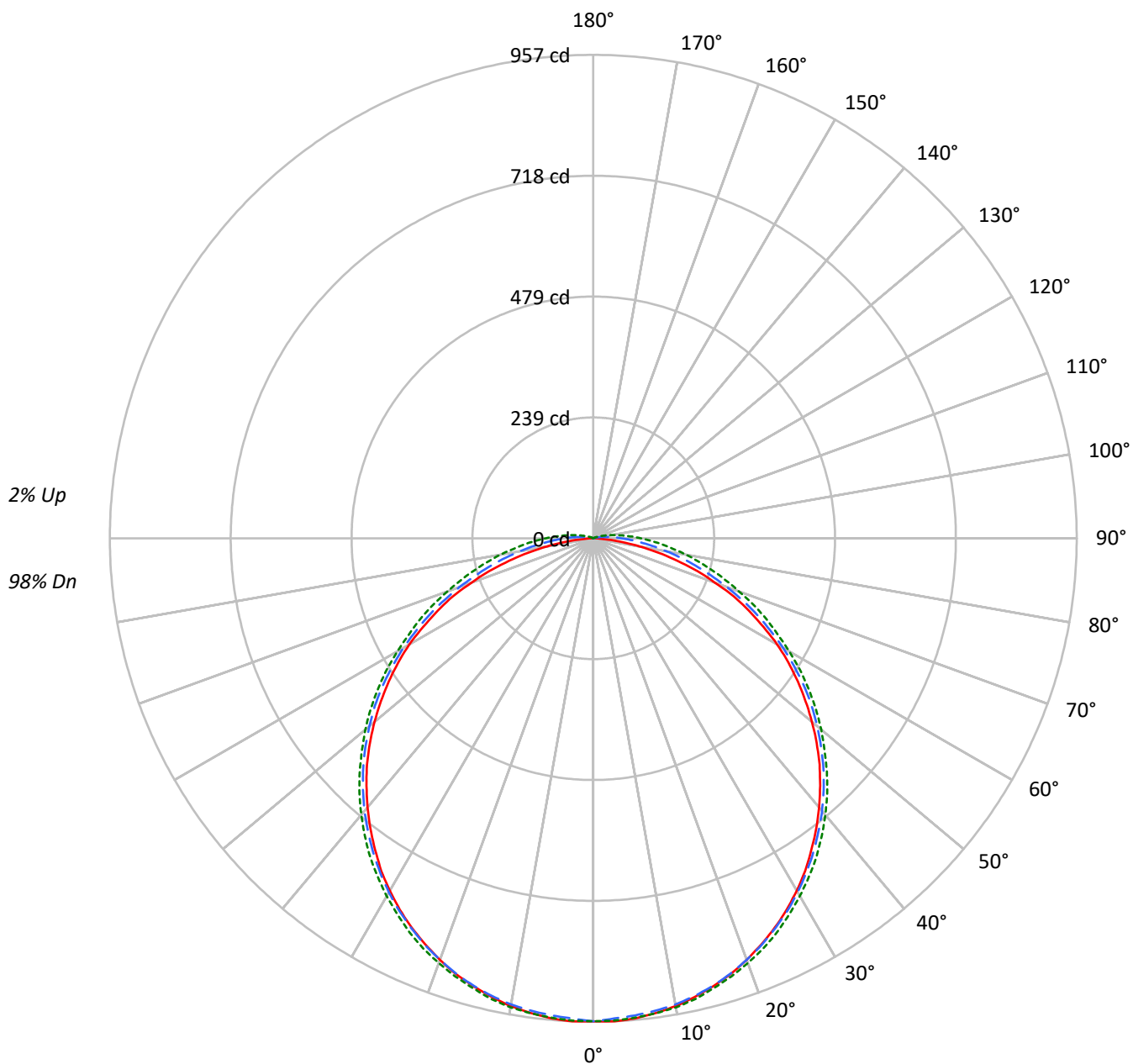
Lumens per Lamp: N/A
Luminaire Lumens: 2891.1 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 23.1
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°	15439	15439	15439
5°	15352	14831	14792
10°	15194	14320	14206
15°	15006	13801	13589
20°	14810	13264	13004
25°	14585	12729	12432
30°	14330	12184	11831
35°	14022	11613	11244
40°	13699	11029	10608
45°	13350	10413	9950
50°	12912	9740	9267
55°	12434	9023	8542
60°	11868	8168	7747
65°	11010	7247	6961
70°	9818	6220	6097
75°	8184	5139	5289
80°	5865	4093	4518
85°	2827	3060	3749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.1
10°-20°	259.5	9.0
20°-30°	393.8	13.6
30°-40°	476.2	16.5
40°-50°	496.9	17.2
50°-60°	454.3	15.7
60°-70°	354.1	12.2
70°-80°	221.5	7.7
80°-90°	100.6	3.5
90°-100°	33.7	1.2
100°-110°	8.5	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°	743.8	25.7
0°-40°	1220.0	42.2
0°-60°	2171.2	75.1
0°-90°	2847.5	98.5
90°-120°	43.5	1.5
90°-150°	43.5	1.5
90°-180°	44.0	1.5
0°-180°	2891.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	954	952	948	953	953	91
15°	918	919	917	922	922	259
25°	850	851	852	859	861	392
35°	753	756	759	767	770	471
45°	633	639	644	650	654	488
55°	494	500	509	517	520	442
65°	340	346	358	372	378	336
75°	172	183	209	234	243	183
85°	30	55	94	125	136	38
90°	0	20	56	84	94	1
95°	0	5	29	52	60	0
105°	0	1	5	14	19	1
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°	956.2	956.2	956.2	956.2	956.2
2.5°	957.3	955.9	951.7	955.9	955.7
5°	954.1	952.3	948.1	952.6	952.6
7.5°	947.8	947.2	943.3	948.5	948.5
10°	940.4	940.2	937.0	942.6	942.9
12.5°	930.0	930.9	928.0	933.4	934.1
15°	917.8	919.4	916.9	922.1	921.9
17.5°	904.6	905.5	903.6	909.5	909.3
20°	888.1	889.2	887.9	894.0	894.6
22.5°	869.8	871.4	871.2	877.5	879.3
25°	850.5	851.1	852.0	859.2	860.6
27.5°	829.0	830.2	831.7	838.3	839.6
30°	805.6	807.4	809.2	816.0	817.8
32.5°	780.8	782.6	784.9	793.7	794.6
35°	752.9	756.2	759.4	767.1	770.2
37.5°	724.9	729.2	732.1	740.2	742.7
40°	695.4	699.7	704.4	713.0	714.5
42.5°	664.5	669.5	675.1	682.8	685.5
45°	633.4	639.0	644.2	650.5	653.7
47.5°	599.8	605.4	611.7	619.0	621.0
50°	565.1	571.6	578.4	585.2	588.8
52.5°	529.5	537.4	545.0	552.2	555.6
55°	494.3	500.2	509.4	516.9	520.2
57.5°	457.8	462.8	471.1	483.3	485.1
60°	420.6	425.1	433.7	443.6	447.7
62.5°	379.6	385.7	394.7	407.3	410.9
65°	339.7	345.5	357.5	371.7	377.6
67.5°	301.1	303.2	318.5	333.4	342.8
70°	255.6	263.3	281.1	299.3	306.6
72.5°	216.4	224.1	243.7	265.1	274.1
75°	172.0	182.6	209.2	234.2	243.0
77.5°	133.0	144.7	177.6	202.9	213.0
80°	92.9	111.1	147.0	175.4	186.4
82.5°	58.4	80.9	119.2	149.0	158.7
85°	29.8	55.0	94.4	124.9	135.9
87.5°	7.9	35.6	73.5	102.6	113.8
90°	0.2	20.5	55.7	83.6	93.8
92.5°	0.2	11.5	41.5	66.5	76.9
95°	0.2	5.4	28.9	52.3	60.4
97.5°	0.2	2.3	19.8	39.4	47.6
100°	0.2	1.1	12.6	28.6	35.6
102.5°	0.5	0.7	7.9	20.5	26.1
105°	0.5	0.7	4.7	14.0	18.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	3.8	5.6
115°	0.7	0.7	0.9	2.5	3.6
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°	0.5	0.7	2.7	9.5	12.8
110°	0.7	0.7	1.6	5.9	8.6



(END OF REPORT)