

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: P580532

Luminaire Tested: **HVSL4-3-LD4-1STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580532
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-30-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

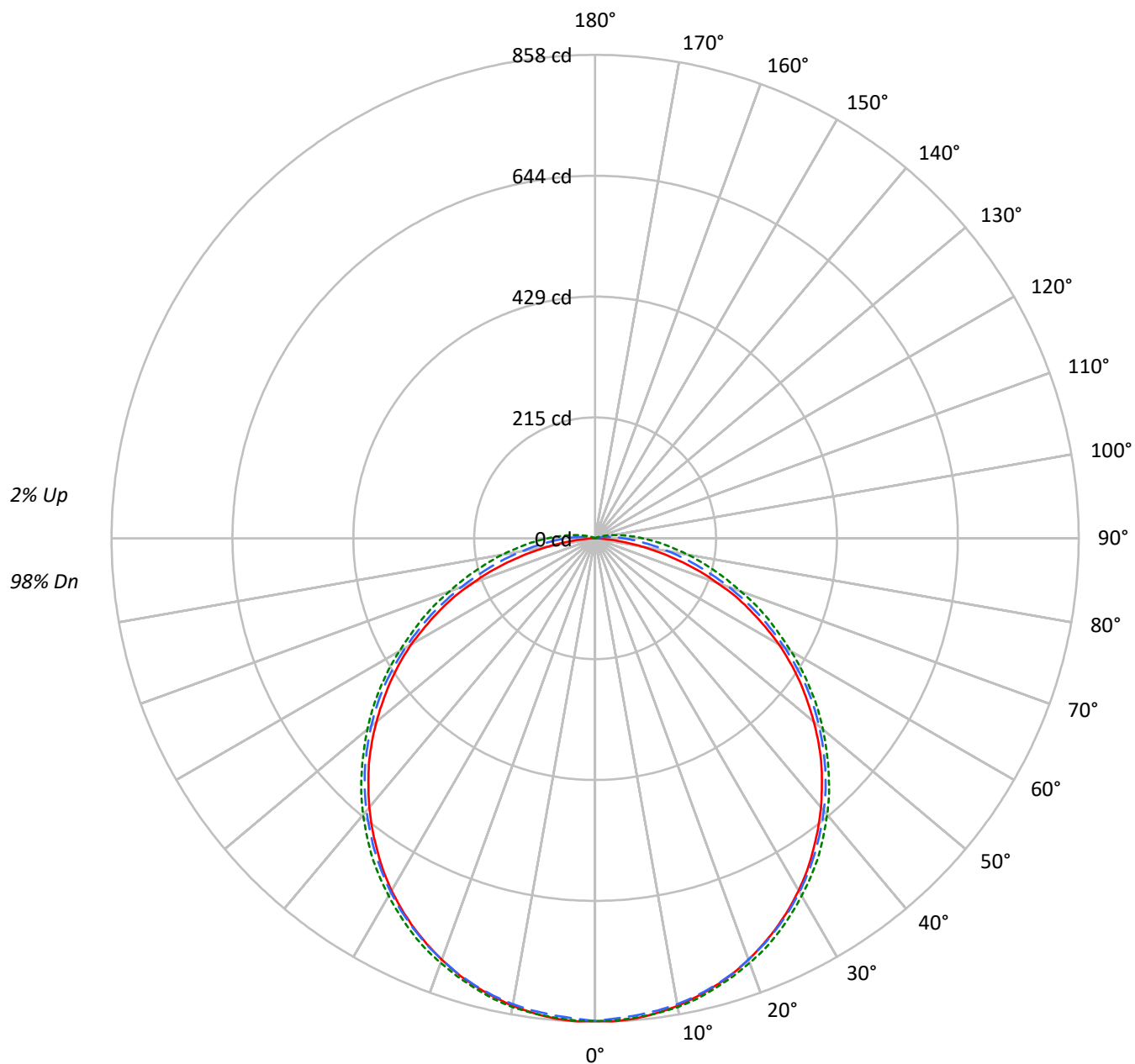
Lumens per Lamp: N/A
Luminaire Lumens: 2591.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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°	9224	9224	9224
5°	9195	8876	8838
10°	9122	8584	8487
15°	9032	8286	8119
20°	8936	7974	7770
25°	8824	7665	7428
30°	8695	7347	7068
35°	8534	7014	6718
40°	8367	6671	6339
45°	8187	6310	5944
50°	7955	5912	5537
55°	7702	5489	5104
60°	7403	4979	4628
65°	6927	4429	4159
70°	6255	3812	3642
75°	5308	3162	3160
80°	3922	2529	2700
85°	2017	1903	2240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	3.1
10°-20°	232.6	9.0
20°-30°	352.9	13.6
30°-40°	426.8	16.5
40°-50°	445.3	17.2
50°-60°	407.1	15.7
60°-70°	317.4	12.2
70°-80°	198.5	7.7
80°-90°	90.2	3.5
90°-100°	30.2	1.2
100°-110°	7.6	0.3
110°-120°	1.2	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°	666.6	25.7
0°-40°	1093.4	42.2
0°-60°	1945.9	75.1
0°-90°	2552.0	98.5
90°-120°	39.0	1.5
90°-150°	39.0	1.5
90°-180°	39.0	1.5
0°-180°	2591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	855	854	850	854	854	81
15°	823	824	822	826	826	232
25°	762	763	764	770	771	351
35°	675	678	681	688	690	422
45°	568	573	577	583	586	437
55°	443	448	457	463	466	396
65°	304	310	320	333	338	301
75°	154	164	188	210	218	164
85°	27	49	85	112	122	34
90°	0	18	50	75	84	1
95°	0	5	26	47	54	0
105°	0	1	4	12	17	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.9	856.9	856.9	856.9	856.9
2.5°	858.0	856.7	852.9	856.7	856.5
5°	855.1	853.5	849.7	853.7	853.7
7.5°	849.5	848.9	845.4	850.1	850.1
10°	842.8	842.6	839.8	844.8	845.0
12.5°	833.5	834.3	831.7	836.5	837.1
15°	822.6	824.0	821.8	826.4	826.2
17.5°	810.7	811.5	809.9	815.1	814.9
20°	795.9	796.9	795.7	801.2	801.8
22.5°	779.6	781.0	780.8	786.4	788.1
25°	762.2	762.8	763.6	770.1	771.3
27.5°	743.0	744.0	745.4	751.3	752.5
30°	722.0	723.6	725.2	731.3	732.9
32.5°	699.8	701.4	703.4	711.3	712.1
35°	674.7	677.8	680.6	687.5	690.3
37.5°	649.7	653.5	656.1	663.4	665.6
40°	623.2	627.1	631.3	639.0	640.4
42.5°	595.5	600.0	605.0	611.9	614.3
45°	567.7	572.7	577.4	583.0	585.8
47.5°	537.6	542.6	548.3	554.7	556.6
50°	506.5	512.3	518.4	524.4	527.7
52.5°	474.5	481.6	488.5	494.9	498.0
55°	443.0	448.3	456.6	463.2	466.2
57.5°	410.3	414.7	422.2	433.1	434.7
60°	377.0	381.0	388.7	397.6	401.2
62.5°	340.2	345.6	353.7	365.0	368.3
65°	304.4	309.7	320.4	333.1	338.4
67.5°	269.9	271.7	285.4	298.8	307.3
70°	229.1	236.0	251.9	268.3	274.7
72.5°	193.9	200.8	218.4	237.6	245.6
75°	154.1	163.6	187.5	209.9	217.8
77.5°	119.2	129.7	159.2	181.8	190.9
80°	83.2	99.6	131.7	157.2	167.1
82.5°	52.3	72.5	106.9	133.5	142.2
85°	26.7	49.3	84.6	111.9	121.8
87.5°	7.1	31.9	65.9	91.9	102.0
90°	0.2	18.4	49.9	74.9	84.0
92.5°	0.2	10.3	37.2	59.6	68.9
95°	0.2	4.8	25.9	46.9	54.1
97.5°	0.2	2.0	17.8	35.4	42.6
100°	0.2	1.0	11.3	25.7	31.9
102.5°	0.4	0.6	7.1	18.4	23.4
105°	0.4	0.6	4.2	12.5	16.8



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CATALOG NUMBER: HVSL4-3-LD4-1STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.4	5.1
115°	0.6	0.6	0.8	2.2	3.2
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°	0.4	0.6	2.4	8.5	11.5
110°	0.6	0.6	1.4	5.3	7.7



(END OF REPORT)