

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: P580228

Luminaire Tested: **HVSL12-4-LD4-3HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580228
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: HVSL12-4-LD4-3HI-30-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

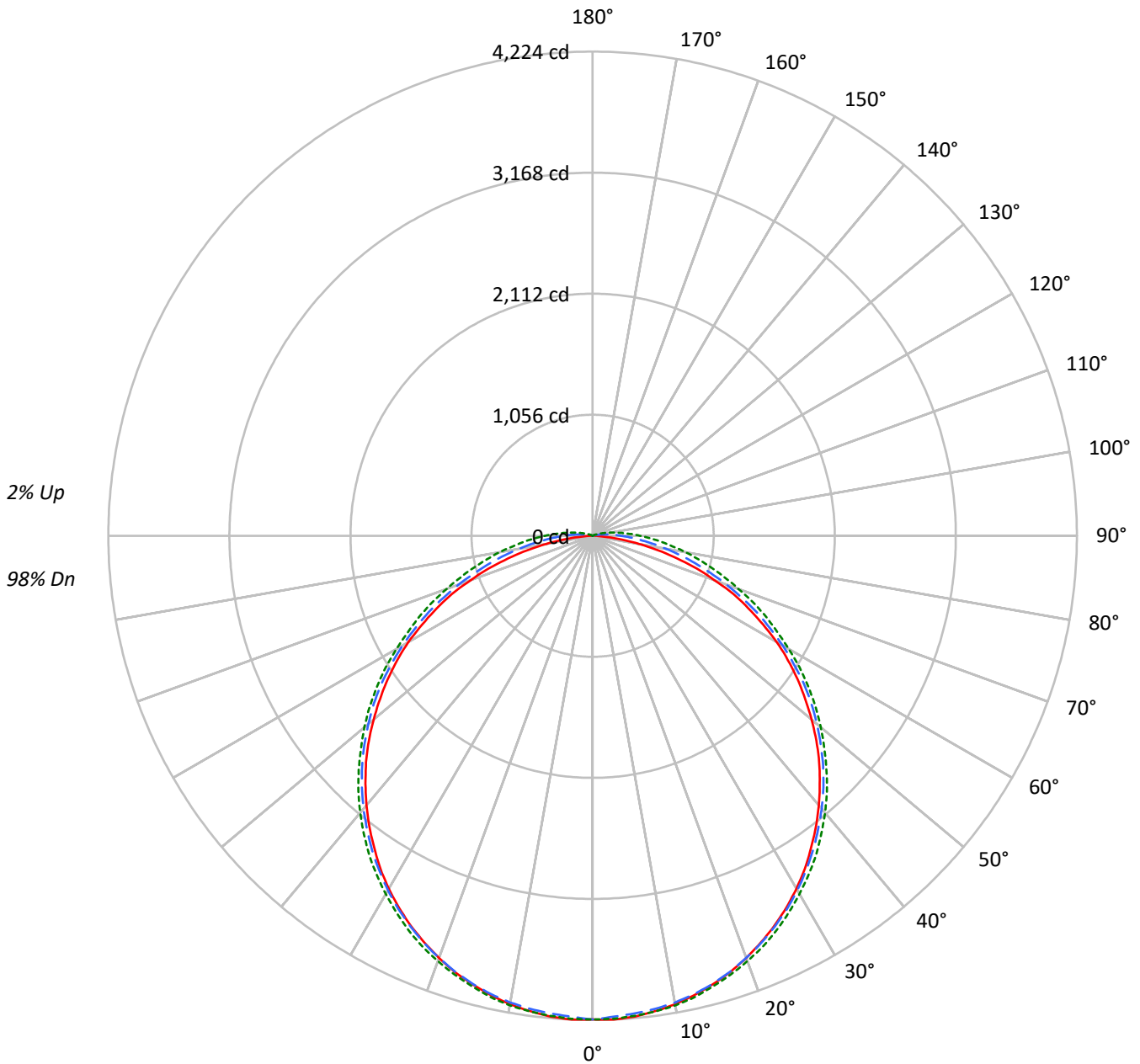
Lumens per Lamp: N/A
Luminaire Lumens: 12758.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133.3
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: P580228

CATALOG NUMBER: HVSL12-4-LD4-3HI-30-UNV-O-EDD

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°	11355	11355	11355
5°	11333	11158	11192
10°	11257	11013	11045
15°	11160	10845	10850
20°	11056	10649	10659
25°	10931	10446	10463
30°	10787	10226	10229
35°	10605	9979	9999
40°	10416	9718	9717
45°	10212	9430	9410
50°	9946	9089	9074
55°	9659	8714	8700
60°	9317	8206	8250
65°	8762	7633	7815
70°	7963	6947	7300
75°	6829	6192	6873
80°	5137	5476	6553
85°	2746	4794	6374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	3.1
10°-20°	1145.4	9.0
20°-30°	1737.9	13.6
30°-40°	2101.4	16.5
40°-50°	2192.7	17.2
50°-60°	2004.8	15.7
60°-70°	1562.8	12.2
70°-80°	977.6	7.7
80°-90°	444.0	3.5
90°-100°	148.8	1.2
100°-110°	37.4	0.3
110°-120°	5.9	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°	3282.6	25.7
0°-40°	5384.0	42.2
0°-60°	9581.5	75.1
0°-90°	12565.9	98.5
90°-120°	192.1	1.5
90°-150°	192.1	1.5
90°-180°	192.0	1.5
0°-180°	12758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4220	4220	4220	4220	4220	
5°	4211	4203	4184	4204	4204	400
15°	4050	4057	4046	4069	4068	1143
25°	3753	3756	3760	3792	3798	1729
35°	3322	3337	3351	3385	3399	2079
45°	2795	2820	2843	2871	2885	2154
55°	2181	2207	2248	2281	2296	1949
65°	1499	1525	1578	1640	1666	1483
75°	759	806	923	1034	1072	809
85°	131	243	417	551	600	166
90°	1	90	246	369	414	5
95°	1	24	127	231	267	1
105°	2	3	21	62	83	2
115°	3	3	4	11	16	2
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



TEST NUMBER: P580228

CATALOG NUMBER: HVSL12-4-LD4-3HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4219.6	4219.6	4219.6	4219.6	4219.6
2.5°	4224.5	4218.6	4199.7	4218.6	4217.6
5°	4210.6	4202.7	4183.8	4203.7	4203.7
7.5°	4182.8	4179.8	4162.9	4185.8	4185.8
10°	4149.9	4149.0	4135.0	4159.9	4160.9
12.5°	4104.2	4108.2	4095.2	4119.1	4122.1
15°	4050.5	4057.4	4046.5	4069.4	4068.4
17.5°	3991.8	3995.8	3987.8	4013.7	4012.7
20°	3919.2	3924.1	3918.2	3945.0	3948.0
22.5°	3838.6	3845.6	3844.6	3872.4	3880.4
25°	3753.1	3756.0	3760.0	3791.8	3797.8
27.5°	3658.6	3663.5	3670.5	3699.3	3705.3
30°	3555.1	3563.1	3571.0	3600.9	3608.8
32.5°	3445.7	3453.6	3463.6	3502.4	3506.4
35°	3322.3	3337.3	3351.2	3385.0	3398.9
37.5°	3199.0	3217.9	3230.8	3266.6	3277.6
40°	3068.7	3087.6	3108.5	3146.3	3153.2
42.5°	2932.4	2954.3	2979.2	3013.0	3024.9
45°	2795.1	2820.0	2842.9	2870.7	2884.7
47.5°	2646.9	2671.8	2699.7	2731.5	2740.4
50°	2493.7	2522.6	2552.4	2582.3	2598.2
52.5°	2336.6	2371.4	2405.2	2437.0	2452.0
55°	2181.4	2207.3	2248.1	2280.9	2295.8
57.5°	2020.3	2042.1	2079.0	2132.7	2140.6
60°	1856.1	1876.0	1913.8	1957.6	1975.5
62.5°	1675.1	1702.0	1741.7	1797.4	1813.4
65°	1499.0	1524.9	1577.6	1640.3	1666.1
67.5°	1328.9	1337.9	1405.5	1471.2	1513.0
70°	1128.0	1161.8	1240.4	1321.0	1352.8
72.5°	954.9	988.7	1075.3	1169.8	1209.6
75°	759.0	805.7	923.1	1033.5	1072.3
77.5°	586.9	638.6	783.8	895.2	940.0
80°	409.8	490.4	648.6	773.9	822.6
82.5°	257.6	357.1	526.2	657.5	700.3
85°	131.3	242.7	416.8	551.1	599.8
87.5°	34.8	157.2	324.3	452.6	502.3
90°	1.0	90.5	245.7	369.0	413.8
92.5°	1.0	50.7	183.0	293.4	339.2
95°	1.0	23.9	127.3	230.8	266.6
97.5°	1.0	9.9	87.5	174.1	209.9
100°	1.0	5.0	55.7	126.3	157.2
102.5°	2.0	3.0	34.8	90.5	115.4
105°	2.0	3.0	20.9	61.7	82.6



TEST NUMBER: P580228

CATALOG NUMBER: HVSL12-4-LD4-3HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	4.0	16.9	24.9
115°	3.0	3.0	4.0	10.9	15.9
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°	2.0	3.0	11.9	41.8	56.7
110°	3.0	3.0	7.0	25.9	37.8



(END OF REPORT)