

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: P580644

Luminaire Tested: **HVSL4-8-LD4-2LO-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580644
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: HVSL4-8-LD4-2LO-30-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

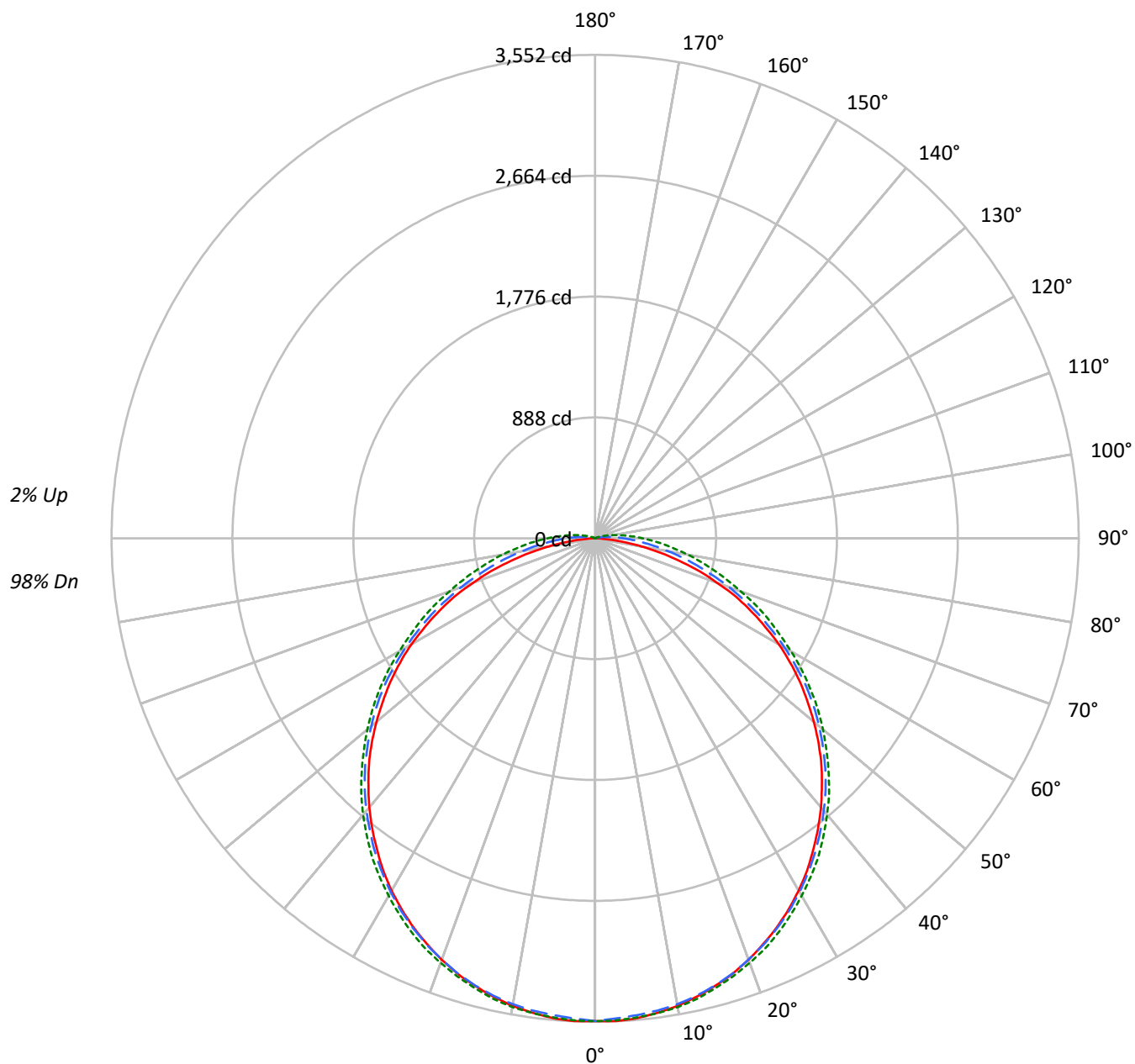
Lumens per Lamp: N/A
Luminaire Lumens: 10726.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 92.4
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°	14319	14319	14319
5°	14318	13807	13720
10°	14248	13380	13176
15°	14151	12939	12604
20°	14047	12477	12062
25°	13918	12015	11531
30°	13765	11539	10973
35°	13566	11036	10429
40°	13360	10519	9840
45°	13141	9971	9229
50°	12847	9365	8595
55°	12534	8716	7924
60°	12159	7930	7185
65°	11522	7077	6456
70°	10586	6117	5654
75°	9234	5097	4905
80°	7162	4103	4191
85°	4129	3115	3478



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.7	3.1
10°-20°	962.9	9.0
20°-30°	1461.1	13.6
30°-40°	1766.7	16.5
40°-50°	1843.5	17.2
50°-60°	1685.5	15.7
60°-70°	1313.9	12.2
70°-80°	821.9	7.7
80°-90°	373.3	3.5
90°-100°	125.1	1.2
100°-110°	31.4	0.3
110°-120°	4.9	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°	2759.8	25.7
0°-40°	4526.5	42.2
0°-60°	8055.4	75.1
0°-90°	10564.5	98.5
90°-120°	161.5	1.5
90°-150°	161.5	1.5
90°-180°	161.0	1.5
0°-180°	10726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3548	3548	3548	3548	3548	
5°	3540	3533	3517	3534	3534	336
15°	3405	3411	3402	3421	3420	961
25°	3155	3158	3161	3188	3193	1454
35°	2793	2806	2817	2846	2858	1748
45°	2350	2371	2390	2414	2425	1811
55°	1834	1856	1890	1918	1930	1638
65°	1260	1282	1326	1379	1401	1247
75°	638	677	776	869	902	680
85°	110	204	350	463	504	140
90°	1	76	207	310	348	4
95°	1	20	107	194	224	1
105°	2	2	18	52	69	2
115°	2	2	3	9	13	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3547.5	3547.5	3547.5	3547.5	3547.5
2.5°	3551.7	3546.7	3530.8	3546.7	3545.8
5°	3540.0	3533.3	3517.4	3534.1	3534.1
7.5°	3516.6	3514.1	3499.8	3519.1	3519.1
10°	3489.0	3488.1	3476.4	3497.3	3498.2
12.5°	3450.5	3453.8	3443.0	3463.0	3465.6
15°	3405.3	3411.2	3402.0	3421.2	3420.4
17.5°	3356.0	3359.3	3352.7	3374.4	3373.6
20°	3295.0	3299.1	3294.1	3316.7	3319.2
22.5°	3227.2	3233.1	3232.2	3255.7	3262.3
25°	3155.3	3157.8	3161.2	3187.9	3192.9
27.5°	3075.8	3080.0	3085.9	3110.1	3115.2
30°	2988.9	2995.6	3002.3	3027.3	3034.0
32.5°	2896.9	2903.6	2911.9	2944.6	2947.9
35°	2793.2	2805.7	2817.4	2845.9	2857.6
37.5°	2689.5	2705.4	2716.2	2746.4	2755.6
40°	2579.9	2595.8	2613.4	2645.2	2651.0
42.5°	2465.4	2483.8	2504.7	2533.1	2543.1
45°	2350.0	2370.9	2390.1	2413.5	2425.2
47.5°	2225.3	2246.3	2269.7	2296.4	2304.0
50°	2096.6	2120.8	2145.9	2171.0	2184.4
52.5°	1964.4	1993.7	2022.1	2048.9	2061.4
55°	1834.0	1855.7	1890.0	1917.6	1930.1
57.5°	1698.5	1716.9	1747.8	1793.0	1799.7
60°	1560.5	1577.2	1609.0	1645.8	1660.9
62.5°	1408.3	1430.9	1464.3	1511.2	1524.5
65°	1260.3	1282.0	1326.3	1379.0	1400.8
67.5°	1117.3	1124.8	1181.7	1236.9	1272.0
70°	948.3	976.8	1042.8	1110.6	1137.3
72.5°	802.8	831.3	904.0	983.5	1016.9
75°	638.1	677.4	776.1	868.9	901.5
77.5°	493.4	536.9	659.0	752.7	790.3
80°	344.5	412.3	545.3	650.6	691.6
82.5°	216.6	300.2	442.4	552.8	588.7
85°	110.4	204.1	350.4	463.3	504.3
87.5°	29.3	132.1	272.6	380.5	422.3
90°	0.8	76.1	206.6	310.3	347.9
92.5°	0.8	42.7	153.9	246.7	285.2
95°	0.8	20.1	107.0	194.0	224.1
97.5°	0.8	8.4	73.6	146.3	176.5
100°	0.8	4.2	46.8	106.2	132.1
102.5°	1.7	2.5	29.3	76.1	97.0
105°	1.7	2.5	17.6	51.8	69.4



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CATALOG NUMBER: HVSL4-8-LD4-2LO-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	2.5	3.3	14.2	20.9
115°	2.5	2.5	3.3	9.2	13.4
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°	1.7	2.5	10.0	35.1	47.7
110°	2.5	2.5	5.9	21.7	31.8



(END OF REPORT)