

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: P580635

Luminaire Tested: **HVSL4-8-LD4-2HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580635
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-LD4-2HI-30-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

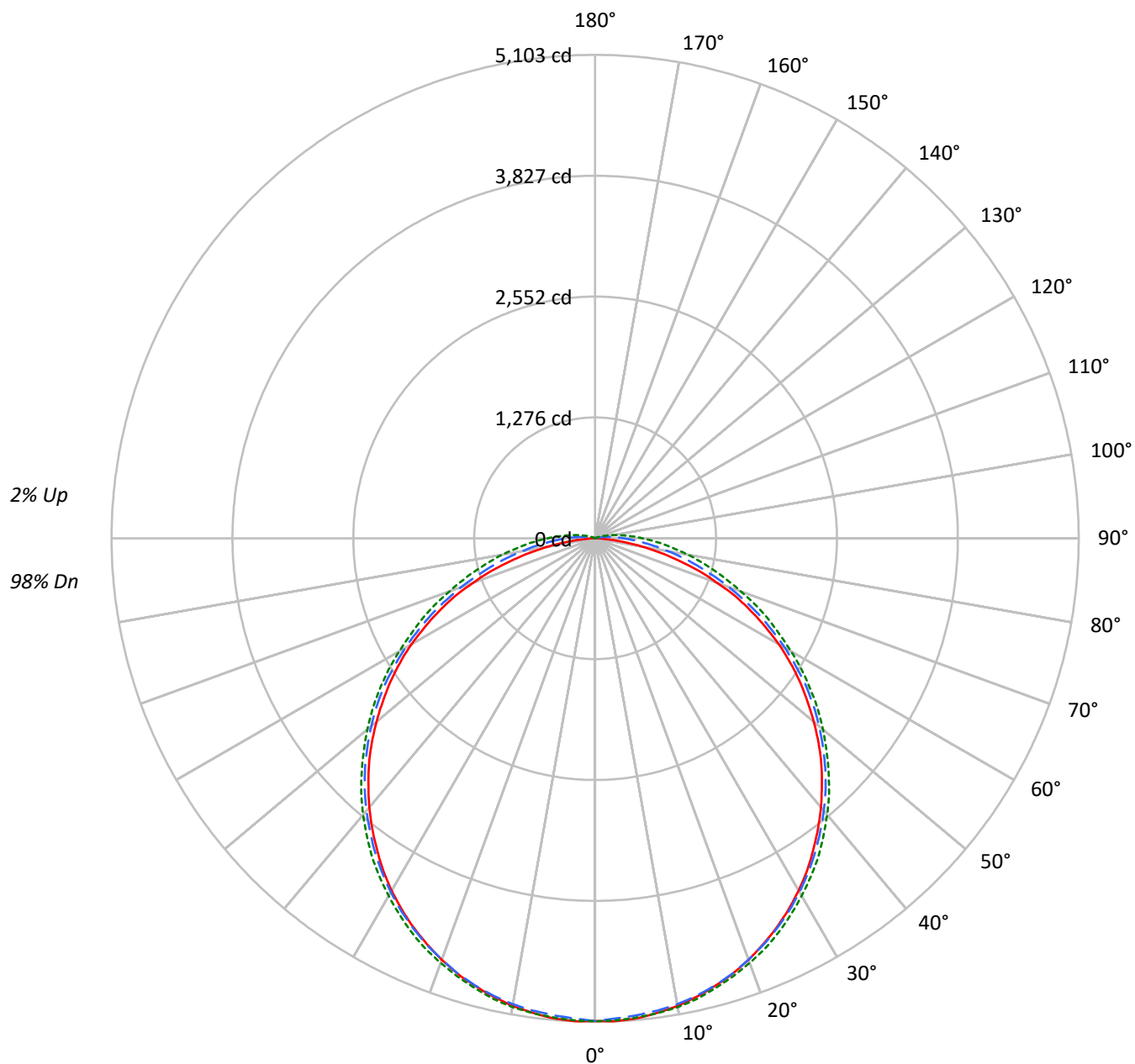
Lumens per Lamp: N/A
Luminaire Lumens: 15410.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 172.4
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°	20573	20573	20573
5°	20570	19837	19711
10°	20470	19223	18930
15°	20331	18590	18109
20°	20181	17926	17330
25°	19995	17262	16567
30°	19777	16578	15765
35°	19490	15856	14984
40°	19195	15113	14137
45°	18879	14325	13259
50°	18457	13454	12348
55°	18007	12522	11384
60°	17469	11393	10322
65°	16554	10168	9275
70°	15209	8788	8123
75°	13265	7323	7047
80°	10290	5895	6021
85°	5932	4475	4996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.3	3.1
10°-20°	1383.5	9.0
20°-30°	2099.2	13.6
30°-40°	2538.3	16.5
40°-50°	2648.5	17.2
50°-60°	2421.5	15.7
60°-70°	1887.7	12.2
70°-80°	1180.8	7.7
80°-90°	536.3	3.5
90°-100°	179.8	1.2
100°-110°	45.1	0.3
110°-120°	7.1	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°	3964.9	25.7
0°-40°	6503.2	42.2
0°-60°	11573.2	75.1
0°-90°	15178.0	98.5
90°-120°	232.0	1.5
90°-150°	232.0	1.5
90°-180°	232.0	1.5
0°-180°	15410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5097	5097	5097	5097	5097	
5°	5086	5076	5053	5078	5078	483
15°	4892	4901	4888	4915	4914	1381
25°	4533	4537	4542	4580	4587	2089
35°	4013	4031	4048	4089	4106	2512
45°	3376	3406	3434	3468	3484	2602
55°	2635	2666	2715	2755	2773	2354
65°	1811	1842	1906	1981	2012	1792
75°	917	973	1115	1248	1295	977
85°	159	293	503	666	724	201
90°	1	109	297	446	500	6
95°	1	29	154	279	322	1
105°	2	4	25	74	100	3
115°	4	4	5	13	19	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°	5096.7	5096.7	5096.7	5096.7	5096.7
2.5°	5102.7	5095.5	5072.7	5095.5	5094.3
5°	5085.9	5076.3	5053.4	5077.5	5077.5
7.5°	5052.2	5048.6	5028.2	5055.8	5055.8
10°	5012.6	5011.4	4994.6	5024.6	5025.8
12.5°	4957.3	4962.1	4946.5	4975.3	4979.0
15°	4892.4	4900.9	4887.6	4915.3	4914.1
17.5°	4821.6	4826.4	4816.8	4848.0	4846.8
20°	4733.8	4739.9	4732.6	4765.1	4768.7
22.5°	4636.5	4644.9	4643.7	4677.4	4687.0
25°	4533.2	4536.8	4541.6	4580.1	4587.3
27.5°	4419.1	4425.1	4433.5	4468.3	4475.5
30°	4294.1	4303.7	4313.3	4349.4	4359.0
32.5°	4161.9	4171.6	4183.6	4230.4	4235.2
35°	4013.0	4031.0	4047.8	4088.7	4105.5
37.5°	3864.0	3886.8	3902.4	3945.7	3958.9
40°	3706.6	3729.4	3754.6	3800.3	3808.7
42.5°	3542.0	3568.4	3598.4	3639.3	3653.7
45°	3376.2	3406.2	3433.8	3467.5	3484.3
47.5°	3197.2	3227.2	3260.8	3299.3	3310.1
50°	3012.1	3047.0	3083.0	3119.1	3138.3
52.5°	2822.3	2864.3	2905.2	2943.6	2961.7
55°	2634.9	2666.1	2715.4	2755.0	2773.0
57.5°	2440.2	2466.6	2511.1	2576.0	2585.6
60°	2242.0	2266.0	2311.7	2364.5	2386.1
62.5°	2023.3	2055.7	2103.8	2171.1	2190.3
65°	1810.6	1841.9	1905.6	1981.2	2012.5
67.5°	1605.2	1616.0	1697.7	1777.0	1827.5
70°	1362.5	1403.3	1498.3	1595.6	1634.0
72.5°	1153.4	1194.3	1298.8	1412.9	1461.0
75°	916.7	973.2	1115.0	1248.3	1295.2
77.5°	708.9	771.4	946.8	1081.3	1135.4
80°	495.0	592.3	783.4	934.8	993.6
82.5°	311.2	431.3	635.6	794.2	845.8
85°	158.6	293.2	503.4	665.6	724.5
87.5°	42.1	189.8	391.7	546.7	606.7
90°	1.2	109.3	296.8	445.8	499.8
92.5°	1.2	61.3	221.1	354.4	409.7
95°	1.2	28.8	153.8	278.7	322.0
97.5°	1.2	12.0	105.7	210.3	253.5
100°	1.2	6.0	67.3	152.6	189.8
102.5°	2.4	3.6	42.1	109.3	139.4
105°	2.4	3.6	25.2	74.5	99.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	3.6	4.8	20.4	30.0
115°	3.6	3.6	4.8	13.2	19.2
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°	2.4	3.6	14.4	50.5	68.5
110°	3.6	3.6	8.4	31.2	45.7



(END OF REPORT)