

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: P580642

Luminaire Tested: **HVSL4-8-LD4-2HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580642
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-50-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

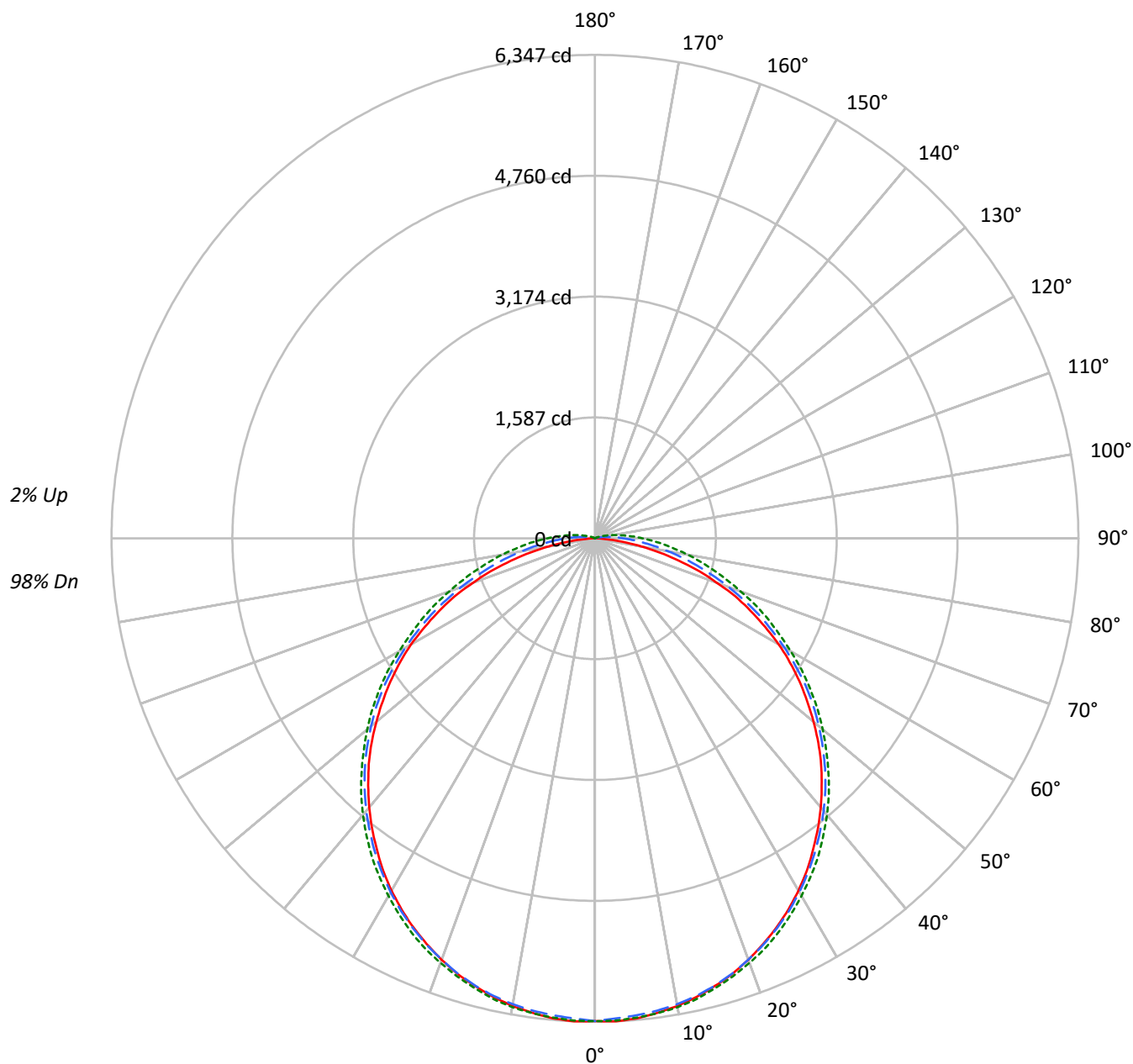
Lumens per Lamp: N/A
Luminaire Lumens: 19169.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

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°	25591	25591	25591
5°	25588	24675	24519
10°	25463	23912	23548
15°	25291	23125	22526
20°	25104	22299	21557
25°	24873	21473	20609
30°	24601	20622	19611
35°	24244	19724	18638
40°	23877	18799	17585
45°	23484	17820	16493
50°	22959	16736	15360
55°	22399	15576	14161
60°	21730	14172	12840
65°	20592	12648	11537
70°	18919	10932	10105
75°	16502	9109	8766
80°	12802	7333	7489
85°	7380	5566	6214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.0	3.1
10°-20°	1720.9	9.0
20°-30°	2611.2	13.6
30°-40°	3157.4	16.5
40°-50°	3294.5	17.2
50°-60°	3012.2	15.7
60°-70°	2348.1	12.2
70°-80°	1468.9	7.7
80°-90°	667.1	3.5
90°-100°	223.6	1.2
100°-110°	56.1	0.3
110°-120°	8.9	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°	4932.1	25.7
0°-40°	8089.5	42.2
0°-60°	14396.2	75.1
0°-90°	18880.4	98.5
90°-120°	288.6	1.5
90°-150°	288.6	1.5
90°-180°	289.0	1.5
0°-180°	19169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6340	6340	6340	6340	6340	
5°	6326	6314	6286	6316	6316	601
15°	6086	6096	6080	6114	6113	1718
25°	5639	5644	5650	5697	5706	2598
35°	4992	5014	5035	5086	5107	3124
45°	4200	4237	4272	4313	4334	3236
55°	3278	3316	3378	3427	3450	2928
65°	2252	2291	2370	2464	2503	2229
75°	1140	1211	1387	1553	1611	1216
85°	197	365	626	828	901	250
90°	2	136	369	554	622	8
95°	2	36	191	347	400	1
105°	3	4	31	93	124	3
115°	4	4	6	16	24	3
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°	6339.9	6339.9	6339.9	6339.9	6339.9
2.5°	6347.4	6338.5	6310.1	6338.5	6337.0
5°	6326.5	6314.5	6286.1	6316.0	6316.0
7.5°	6284.6	6280.2	6254.8	6289.1	6289.1
10°	6235.3	6233.8	6212.9	6250.3	6251.8
12.5°	6166.6	6172.6	6153.1	6189.0	6193.5
15°	6085.9	6096.3	6079.9	6114.3	6112.8
17.5°	5997.7	6003.7	5991.7	6030.6	6029.1
20°	5888.6	5896.1	5887.1	5927.4	5931.9
22.5°	5767.5	5778.0	5776.5	5818.3	5830.3
25°	5639.0	5643.5	5649.5	5697.3	5706.3
27.5°	5497.0	5504.5	5514.9	5558.3	5567.3
30°	5341.6	5353.5	5365.5	5410.3	5422.3
32.5°	5177.2	5189.1	5204.1	5262.4	5268.3
35°	4991.8	5014.3	5035.2	5086.0	5106.9
37.5°	4806.5	4834.9	4854.3	4908.2	4924.6
40°	4610.7	4639.1	4670.5	4727.3	4737.8
42.5°	4406.0	4438.9	4476.2	4527.0	4545.0
45°	4199.7	4237.1	4271.5	4313.3	4334.2
47.5°	3977.0	4014.4	4056.3	4104.1	4117.5
50°	3746.9	3790.2	3835.1	3879.9	3903.8
52.5°	3510.7	3563.0	3613.9	3661.7	3684.1
55°	3277.6	3316.4	3377.7	3427.0	3449.5
57.5°	3035.5	3068.3	3123.6	3204.3	3216.3
60°	2788.9	2818.8	2875.5	2941.3	2968.2
62.5°	2516.8	2557.2	2617.0	2700.7	2724.6
65°	2252.3	2291.2	2370.4	2464.5	2503.4
67.5°	1996.7	2010.2	2111.8	2210.5	2273.2
70°	1694.8	1745.7	1863.7	1984.8	2032.6
72.5°	1434.8	1485.6	1615.6	1757.6	1817.4
75°	1140.4	1210.6	1387.0	1552.9	1611.1
77.5°	881.8	959.5	1177.7	1345.1	1412.4
80°	615.8	736.8	974.5	1162.8	1236.0
82.5°	387.1	536.5	790.6	987.9	1052.2
85°	197.3	364.7	626.2	828.0	901.2
87.5°	52.3	236.1	487.2	680.0	754.8
90°	1.5	136.0	369.2	554.5	621.7
92.5°	1.5	76.2	275.0	440.9	509.6
95°	1.5	35.9	191.3	346.7	400.5
97.5°	1.5	14.9	131.5	261.5	315.4
100°	1.5	7.5	83.7	189.8	236.1
102.5°	3.0	4.5	52.3	136.0	173.4
105°	3.0	4.5	31.4	92.7	124.0



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CATALOG NUMBER: HVSL4-8-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.5	4.5	6.0	25.4	37.4
115°	4.5	4.5	6.0	16.4	23.9
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°	3.0	4.5	17.9	62.8	85.2
110°	4.5	4.5	10.5	38.9	56.8



(END OF REPORT)