

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: P580553

Luminaire Tested: **HVSL4-3-LD4-2LO-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580553
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-LD4-2LO-50-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

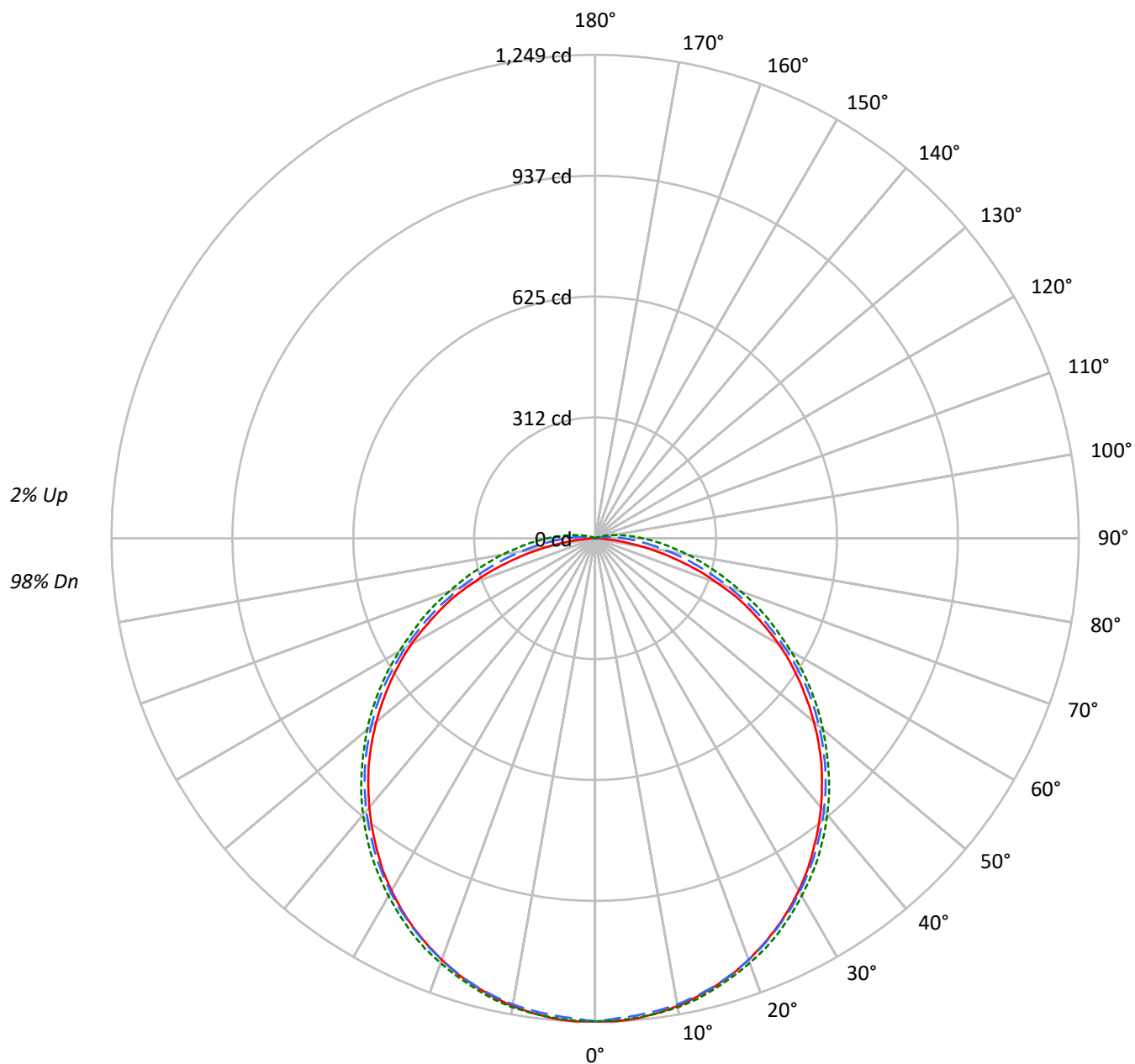
Lumens per Lamp: N/A
Luminaire Lumens: 3773.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.7
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°	13432	13432	13432
5°	13389	12925	12870
10°	13284	12500	12359
15°	13153	12065	11824
20°	13013	11612	11315
25°	12849	11162	10817
30°	12662	10699	10294
35°	12427	10213	9783
40°	12183	9715	9230
45°	11921	9188	8657
50°	11583	8609	8062
55°	11216	7991	7433
60°	10779	7250	6739
65°	10088	6450	6055
70°	9108	5551	5304
75°	7733	4603	4601
80°	5713	3683	3931
85°	2931	2773	3262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	3.1
10°-20°	338.7	9.0
20°-30°	514.0	13.6
30°-40°	621.5	16.5
40°-50°	648.4	17.2
50°-60°	592.9	15.7
60°-70°	462.2	12.2
70°-80°	289.1	7.7
80°-90°	131.3	3.5
90°-100°	44.0	1.2
100°-110°	11.1	0.3
110°-120°	1.7	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°	970.8	25.7
0°-40°	1592.3	42.2
0°-60°	2833.6	75.1
0°-90°	3716.2	98.5
90°-120°	56.8	1.5
90°-150°	56.8	1.5
90°-180°	57.0	1.5
0°-180°	3773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1245	1243	1237	1243	1243	118
15°	1198	1200	1197	1204	1203	338
25°	1110	1111	1112	1121	1123	511
35°	982	987	991	1001	1005	615
45°	827	834	841	849	853	637
55°	645	653	665	674	679	576
65°	443	451	467	485	493	439
75°	224	238	273	306	317	239
85°	39	72	123	163	177	49
90°	0	27	73	109	122	2
95°	0	7	38	68	79	0
105°	1	1	6	18	24	1
115°	1	1	1	3	5	1
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°	1247.9	1247.9	1247.9	1247.9	1247.9
2.5°	1249.4	1247.6	1242.0	1247.6	1247.3
5°	1245.2	1242.9	1237.3	1243.2	1243.2
7.5°	1237.0	1236.1	1231.1	1237.9	1237.9
10°	1227.3	1227.0	1222.9	1230.2	1230.5
12.5°	1213.8	1214.9	1211.1	1218.2	1219.1
15°	1197.9	1199.9	1196.7	1203.5	1203.2
17.5°	1180.5	1181.7	1179.3	1187.0	1186.7
20°	1159.0	1160.5	1158.7	1166.7	1167.6
22.5°	1135.2	1137.3	1137.0	1145.2	1147.6
25°	1109.9	1110.8	1112.0	1121.4	1123.2
27.5°	1082.0	1083.4	1085.5	1094.0	1095.8
30°	1051.4	1053.7	1056.1	1064.9	1067.3
32.5°	1019.0	1021.4	1024.3	1035.8	1037.0
35°	982.5	986.9	991.1	1001.1	1005.2
37.5°	946.1	951.6	955.5	966.1	969.3
40°	907.5	913.1	919.3	930.5	932.5
42.5°	867.2	873.7	881.0	891.0	894.6
45°	826.6	834.0	840.7	849.0	853.1
47.5°	782.8	790.1	798.4	807.8	810.4
50°	737.5	746.0	754.8	763.7	768.4
52.5°	691.0	701.3	711.3	720.7	725.1
55°	645.1	652.8	664.8	674.5	679.0
57.5°	597.5	603.9	614.8	630.7	633.1
60°	548.9	554.8	566.0	578.9	584.2
62.5°	495.4	503.3	515.1	531.6	536.3
65°	443.3	451.0	466.6	485.1	492.7
67.5°	393.0	395.7	415.7	435.1	447.4
70°	333.6	343.6	366.8	390.7	400.1
72.5°	282.4	292.4	318.0	345.9	357.7
75°	224.5	238.3	273.0	305.6	317.1
77.5°	173.6	188.9	231.8	264.8	278.0
80°	121.2	145.0	191.8	228.9	243.3
82.5°	76.2	105.6	155.6	194.4	207.1
85°	38.8	71.8	123.3	163.0	177.4
87.5°	10.3	46.5	95.9	133.8	148.6
90°	0.3	26.8	72.7	109.1	122.4
92.5°	0.3	15.0	54.1	86.8	100.3
95°	0.3	7.1	37.7	68.2	78.8
97.5°	0.3	2.9	25.9	51.5	62.1
100°	0.3	1.5	16.5	37.4	46.5
102.5°	0.6	0.9	10.3	26.8	34.1
105°	0.6	0.9	6.2	18.2	24.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	0.9	1.2	5.0	7.4
115°	0.9	0.9	1.2	3.2	4.7
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°	0.6	0.9	3.5	12.4	16.8
110°	0.9	0.9	2.1	7.6	11.2



(END OF REPORT)