

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: P580194

Luminaire Tested: **HVSL12-4-LD4-1LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580194
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-LD4-1LO-50-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

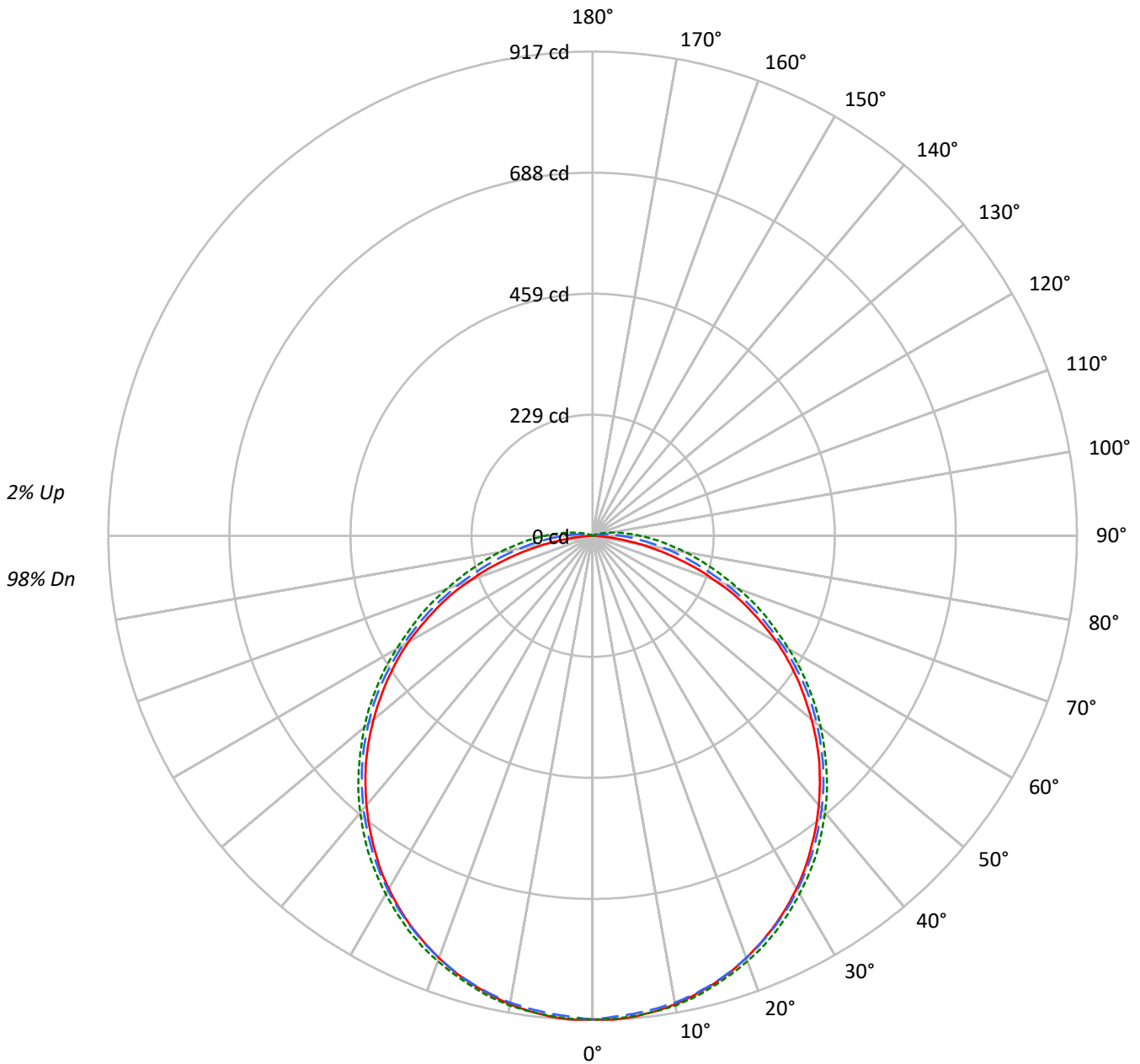
Lumens per Lamp: N/A
Luminaire Lumens: 2770.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.4
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									
RC	80									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°	2465	2465	2465
5°	2461	2423	2430
10°	2444	2391	2398
15°	2423	2355	2356
20°	2400	2312	2314
25°	2373	2268	2272
30°	2342	2220	2221
35°	2302	2167	2171
40°	2262	2110	2110
45°	2217	2047	2043
50°	2159	1974	1970
55°	2097	1892	1889
60°	2023	1782	1791
65°	1903	1657	1697
70°	1729	1508	1585
75°	1483	1344	1492
80°	1116	1189	1423
85°	596	1041	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.1
10°-20°	248.7	9.0
20°-30°	377.3	13.6
30°-40°	456.3	16.5
40°-50°	476.1	17.2
50°-60°	435.3	15.7
60°-70°	339.3	12.2
70°-80°	212.3	7.7
80°-90°	96.4	3.5
90°-100°	32.3	1.2
100°-110°	8.1	0.3
110°-120°	1.3	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°	712.7	25.7
0°-40°	1169.0	42.2
0°-60°	2080.3	75.1
0°-90°	2728.3	98.5
90°-120°	41.7	1.5
90°-150°	41.7	1.5
90°-180°	42.0	1.5
0°-180°	2770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	914	912	908	913	913	87
15°	879	881	879	884	883	248
25°	815	816	816	823	825	375
35°	721	725	728	735	738	451
45°	607	612	617	623	626	468
55°	474	479	488	495	498	423
65°	326	331	342	356	362	322
75°	165	175	200	224	233	176
85°	28	53	90	120	130	36
90°	0	20	53	80	90	1
95°	0	5	28	50	58	0
105°	0	1	4	13	18	0
115°	1	1	1	2	4	0
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.1	916.1	916.1	916.1	916.1
2.5°	917.2	915.9	911.8	915.9	915.7
5°	914.2	912.5	908.4	912.7	912.7
7.5°	908.2	907.5	903.8	908.8	908.8
10°	901.0	900.8	897.8	903.2	903.4
12.5°	891.1	892.0	889.2	894.3	895.0
15°	879.4	880.9	878.6	883.5	883.3
17.5°	866.7	867.6	865.8	871.4	871.2
20°	850.9	852.0	850.7	856.5	857.2
22.5°	833.4	834.9	834.7	840.8	842.5
25°	814.9	815.5	816.4	823.3	824.6
27.5°	794.3	795.4	796.9	803.2	804.5
30°	771.9	773.6	775.3	781.8	783.5
32.5°	748.1	749.9	752.0	760.4	761.3
35°	721.3	724.6	727.6	734.9	738.0
37.5°	694.6	698.7	701.5	709.2	711.6
40°	666.3	670.4	674.9	683.1	684.6
42.5°	636.7	641.4	646.8	654.2	656.8
45°	606.9	612.3	617.2	623.3	626.3
47.5°	574.7	580.1	586.1	593.1	595.0
50°	541.4	547.7	554.2	560.7	564.1
52.5°	507.3	514.9	522.2	529.1	532.4
55°	473.6	479.2	488.1	495.2	498.5
57.5°	438.6	443.4	451.4	463.0	464.8
60°	403.0	407.3	415.5	425.0	428.9
62.5°	363.7	369.5	378.2	390.3	393.7
65°	325.5	331.1	342.5	356.1	361.8
67.5°	288.5	290.5	305.2	319.4	328.5
70°	244.9	252.3	269.3	286.8	293.7
72.5°	207.3	214.7	233.5	254.0	262.6
75°	164.8	174.9	200.4	224.4	232.8
77.5°	127.4	138.7	170.2	194.4	204.1
80°	89.0	106.5	140.8	168.0	178.6
82.5°	55.9	77.5	114.2	142.8	152.0
85°	28.5	52.7	90.5	119.6	130.2
87.5°	7.6	34.1	70.4	98.3	109.1
90°	0.2	19.7	53.3	80.1	89.8
92.5°	0.2	11.0	39.7	63.7	73.6
95°	0.2	5.2	27.6	50.1	57.9
97.5°	0.2	2.2	19.0	37.8	45.6
100°	0.2	1.1	12.1	27.4	34.1
102.5°	0.4	0.6	7.6	19.7	25.1
105°	0.4	0.6	4.5	13.4	17.9



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CATALOG NUMBER: HVSL12-4-LD4-1LO-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.9	3.7	5.4
115°	0.6	0.6	0.9	2.4	3.5
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°	0.4	0.6	2.6	9.1	12.3
110°	0.6	0.6	1.5	5.6	8.2



(END OF REPORT)