

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: P580336

Luminaire Tested: **HVSL2-2-LD4-LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580336
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: HVSL2-2-LD4-LO-40-UNV-O-EDD
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

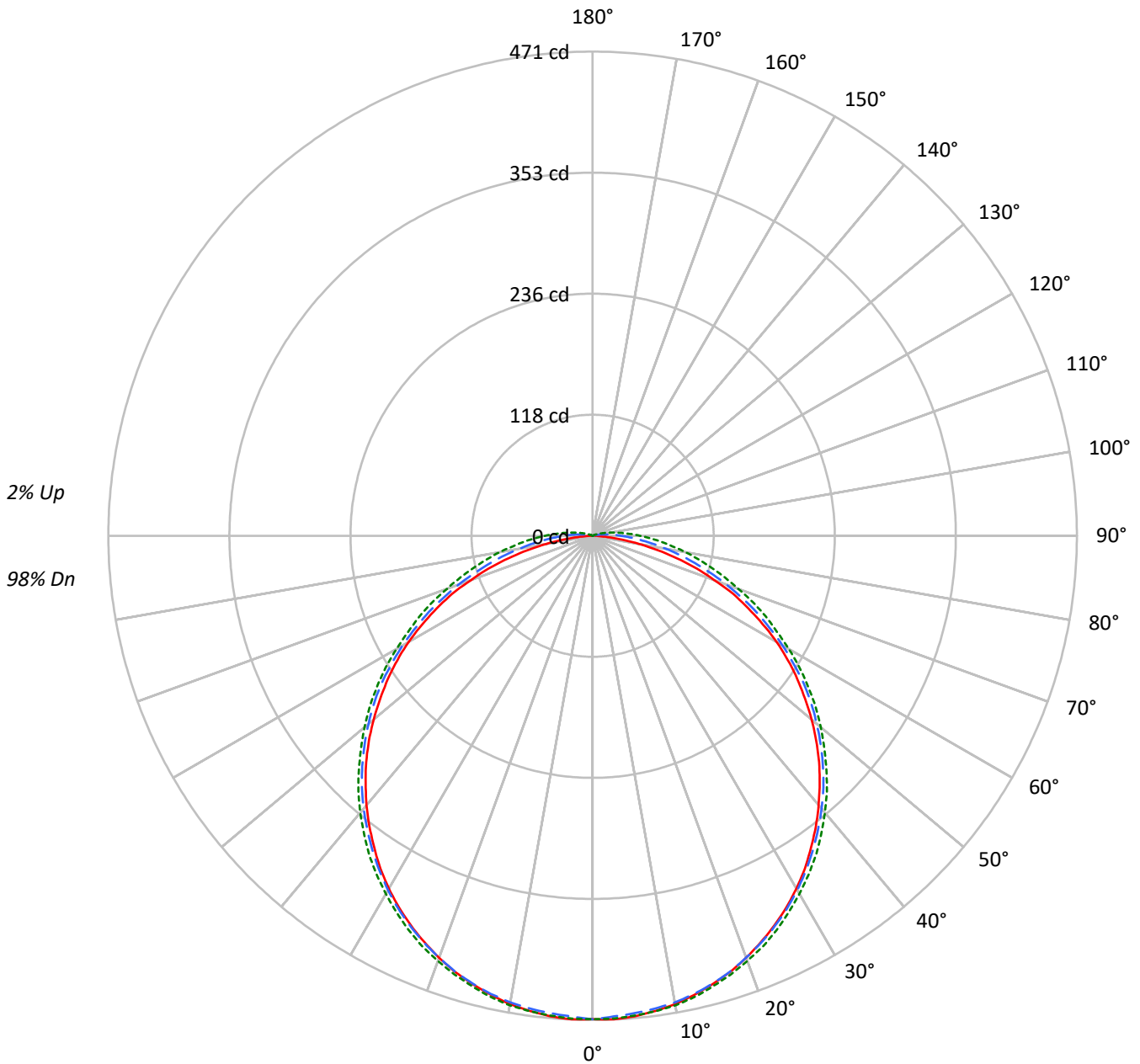
Lumens per Lamp: N/A
Luminaire Lumens: 1422.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 11.6
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

TEST NUMBER: P580336

CATALOG NUMBER: HVSL2-2-LD4-LO-40-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580336

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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°	15187	15187	15187
5°	15102	14166	13964
10°	14949	13314	12928
15°	14764	12509	11957
20°	14568	11734	11085
25°	14346	11002	10285
30°	14099	10289	9507
35°	13793	9583	8782
40°	13474	8891	8056
45°	13131	8194	7340
50°	12704	7471	6637
55°	12230	6737	5933
60°	11677	5920	5205
65°	10832	5082	4512
70°	9657	4205	3799
75°	8051	3326	3150
80°	5771	2515	2556
85°	2770	1766	1994



TEST NUMBER: P580336

CATALOG NUMBER: HVSL2-2-LD4-LO-40-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	3.1
10°-20°	127.7	9.0
20°-30°	193.7	13.6
30°-40°	234.2	16.5
40°-50°	244.4	17.2
50°-60°	223.4	15.7
60°-70°	174.2	12.2
70°-80°	109.0	7.7
80°-90°	49.5	3.5
90°-100°	16.6	1.2
100°-110°	4.2	0.3
110°-120°	0.6	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°	365.9	25.7
0°-40°	600.1	42.2
0°-60°	1067.9	75.1
0°-90°	1400.6	98.5
90°-120°	21.4	1.5
90°-150°	21.4	1.5
90°-180°	21.0	1.5
0°-180°	1422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	470	470	470	470	470	
5°	469	468	466	468	468	45
15°	452	452	451	454	454	127
25°	418	419	419	423	423	193
35°	370	372	374	377	379	232
45°	312	314	317	320	322	240
55°	243	246	251	254	256	217
65°	167	170	176	183	186	165
75°	85	90	103	115	120	90
85°	15	27	46	61	67	19
90°	0	10	27	41	46	1
95°	0	3	14	26	30	0
105°	0	0	2	7	9	0
115°	0	0	0	1	2	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	470.3	470.3	470.3	470.3	470.3
2.5°	470.9	470.2	468.1	470.2	470.1
5°	469.3	468.4	466.3	468.5	468.5
7.5°	466.2	465.9	464.0	466.5	466.5
10°	462.6	462.4	460.9	463.7	463.8
12.5°	457.5	457.9	456.5	459.1	459.4
15°	451.5	452.2	451.0	453.6	453.5
17.5°	444.9	445.4	444.5	447.4	447.3
20°	436.8	437.4	436.7	439.7	440.0
22.5°	427.8	428.6	428.5	431.6	432.5
25°	418.3	418.6	419.1	422.6	423.3
27.5°	407.8	408.3	409.1	412.3	413.0
30°	396.3	397.1	398.0	401.4	402.2
32.5°	384.1	384.9	386.1	390.4	390.8
35°	370.3	372.0	373.5	377.3	378.8
37.5°	356.6	358.7	360.1	364.1	365.3
40°	342.0	344.1	346.5	350.7	351.5
42.5°	326.8	329.3	332.1	335.8	337.2
45°	311.5	314.3	316.9	320.0	321.5
47.5°	295.0	297.8	300.9	304.4	305.4
50°	278.0	281.2	284.5	287.8	289.6
52.5°	260.4	264.3	268.1	271.6	273.3
55°	243.1	246.0	250.6	254.2	255.9
57.5°	225.2	227.6	231.7	237.7	238.6
60°	206.9	209.1	213.3	218.2	220.2
62.5°	186.7	189.7	194.1	200.3	202.1
65°	167.1	170.0	175.8	182.8	185.7
67.5°	148.1	149.1	156.7	164.0	168.6
70°	125.7	129.5	138.3	147.2	150.8
72.5°	106.4	110.2	119.9	130.4	134.8
75°	84.6	89.8	102.9	115.2	119.5
77.5°	65.4	71.2	87.4	99.8	104.8
80°	45.7	54.7	72.3	86.3	91.7
82.5°	28.7	39.8	58.7	73.3	78.1
85°	14.6	27.1	46.5	61.4	66.9
87.5°	3.9	17.5	36.1	50.4	56.0
90°	0.1	10.1	27.4	41.1	46.1
92.5°	0.1	5.7	20.4	32.7	37.8
95°	0.1	2.7	14.2	25.7	29.7
97.5°	0.1	1.1	9.8	19.4	23.4
100°	0.1	0.6	6.2	14.1	17.5
102.5°	0.2	0.3	3.9	10.1	12.9
105°	0.2	0.3	2.3	6.9	9.2



TEST NUMBER: P580336

CATALOG NUMBER: HVSL2-2-LD4-LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.9	2.8
115°	0.3	0.3	0.4	1.2	1.8
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°	0.2	0.3	1.3	4.7	6.3
110°	0.3	0.3	0.8	2.9	4.2



(END OF REPORT)