

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: P580312

Luminaire Tested: **HVSL12-8-LD4-3LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580312
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: HVSL12-8-LD4-3LO-40-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

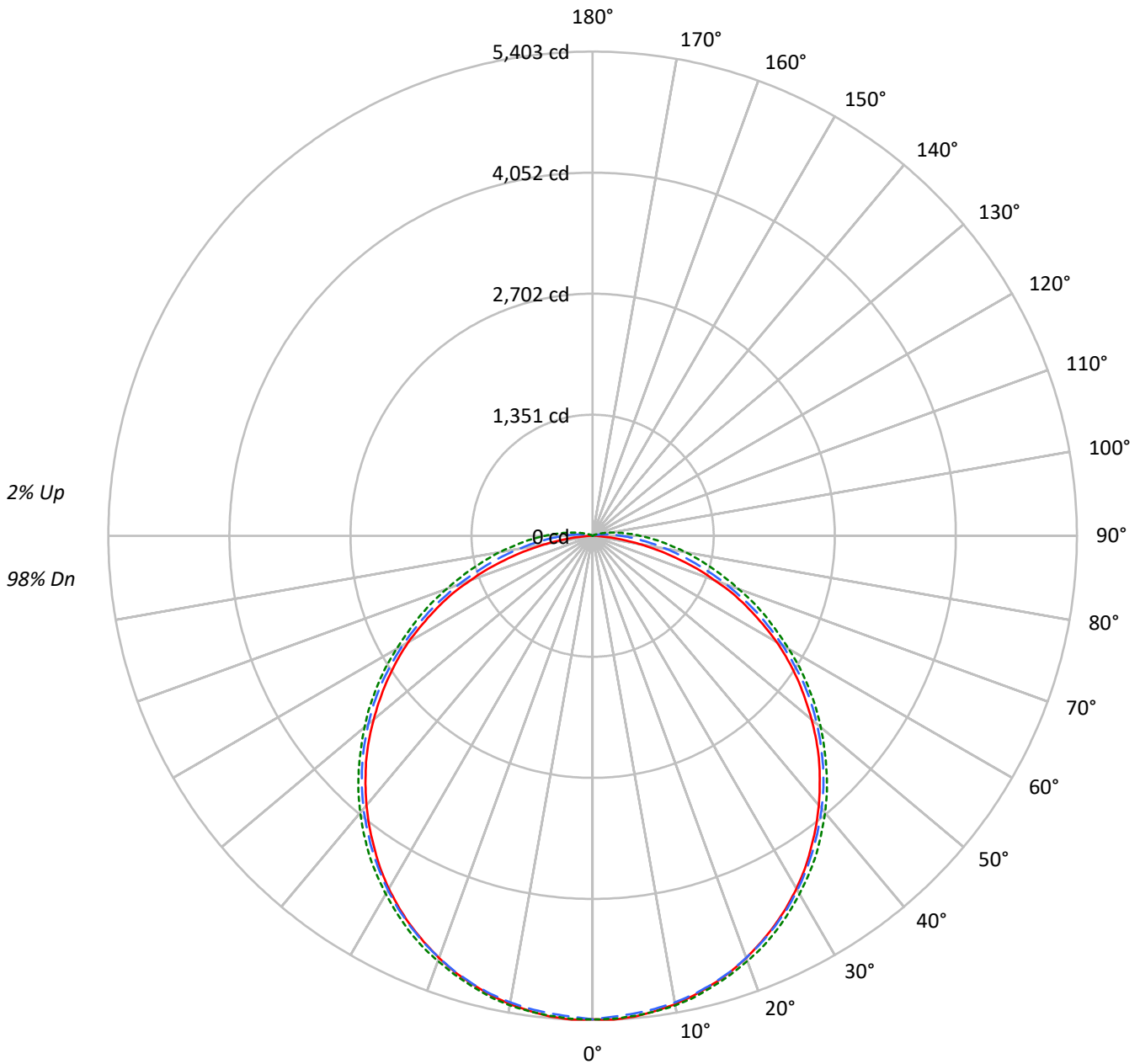
Lumens per Lamp: N/A
Luminaire Lumens: 16318.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 142.7
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

TEST NUMBER: P580312

CATALOG NUMBER: HVSL12-8-LD4-3LO-40-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580312

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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°	7262	7262	7262
5°	7261	7145	7158
10°	7225	7061	7063
15°	7176	6962	6938
20°	7124	6845	6817
25°	7058	6724	6691
30°	6981	6592	6542
35°	6879	6442	6394
40°	6775	6284	6215
45°	6664	6109	6017
50°	6515	5901	5803
55°	6356	5671	5564
60°	6166	5357	5276
65°	5843	5002	4998
70°	5369	4575	4669
75°	4682	4106	4395
80°	3632	3668	4191
85°	2093	3271	4077



TEST NUMBER: P580312

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.7	3.1
10°-20°	1465.0	9.0
20°-30°	2222.9	13.6
30°-40°	2687.8	16.5
40°-50°	2804.5	17.2
50°-60°	2564.2	15.7
60°-70°	1998.9	12.2
70°-80°	1250.4	7.7
80°-90°	567.9	3.5
90°-100°	190.4	1.2
100°-110°	47.8	0.3
110°-120°	7.5	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°	4198.6	25.7
0°-40°	6886.4	42.2
0°-60°	12255.1	75.1
0°-90°	16072.3	98.5
90°-120°	245.7	1.5
90°-150°	245.7	1.5
90°-180°	246.0	1.5
0°-180°	16318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5397	5397	5397	5397	5397	
5°	5386	5375	5351	5377	5377	511
15°	5181	5190	5176	5205	5204	1462
25°	4800	4804	4809	4850	4858	2212
35°	4249	4268	4286	4330	4347	2660
45°	3575	3607	3636	3672	3690	2755
55°	2790	2823	2875	2917	2936	2493
65°	1917	1950	2018	2098	2131	1897
75°	971	1030	1181	1322	1372	1035
85°	168	310	533	705	767	212
90°	1	116	314	472	529	7
95°	1	30	163	295	341	1
105°	2	4	27	79	106	3
115°	4	4	5	14	20	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	0



TEST NUMBER: P580312

CATALOG NUMBER: HVSL12-8-LD4-3LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5397.0	5397.0	5397.0	5397.0	5397.0
2.5°	5403.4	5395.7	5371.6	5395.7	5394.5
5°	5385.6	5375.4	5351.2	5376.7	5376.7
7.5°	5349.9	5346.1	5324.5	5353.8	5353.8
10°	5307.9	5306.7	5288.9	5320.7	5321.9
12.5°	5249.4	5254.5	5238.0	5268.5	5272.3
15°	5180.7	5189.6	5175.6	5204.9	5203.6
17.5°	5105.7	5110.7	5100.6	5133.6	5132.4
20°	5012.8	5019.1	5011.5	5045.9	5049.7
22.5°	4909.7	4918.6	4917.4	4953.0	4963.2
25°	4800.3	4804.1	4809.2	4849.9	4857.6
27.5°	4679.4	4685.8	4694.7	4731.6	4739.2
30°	4547.1	4557.3	4567.5	4605.7	4615.8
32.5°	4407.2	4417.4	4430.1	4479.7	4484.8
35°	4249.4	4268.5	4286.3	4329.6	4347.4
37.5°	4091.7	4115.8	4132.4	4178.2	4192.2
40°	3925.0	3949.2	3975.9	4024.2	4033.1
42.5°	3750.7	3778.7	3810.5	3853.7	3869.0
45°	3575.1	3606.9	3636.2	3671.8	3689.6
47.5°	3385.5	3417.3	3453.0	3493.7	3505.1
50°	3189.6	3226.5	3264.7	3302.8	3323.2
52.5°	2988.6	3033.1	3076.4	3117.1	3136.2
55°	2790.1	2823.2	2875.4	2917.3	2936.4
57.5°	2584.0	2612.0	2659.1	2727.8	2737.9
60°	2374.1	2399.5	2447.9	2503.8	2526.7
62.5°	2142.5	2176.9	2227.8	2299.0	2319.4
65°	1917.3	1950.4	2017.8	2098.0	2131.1
67.5°	1699.8	1711.2	1797.7	1881.7	1935.1
70°	1442.8	1486.0	1586.5	1689.6	1730.3
72.5°	1221.4	1264.6	1375.3	1496.2	1547.1
75°	970.7	1030.5	1180.7	1321.9	1371.5
77.5°	750.6	816.8	1002.6	1145.1	1202.3
80°	524.2	627.2	829.5	989.8	1052.2
82.5°	329.5	456.7	673.0	841.0	895.7
85°	167.9	310.4	533.1	704.8	767.2
87.5°	44.5	201.0	414.8	578.9	642.5
90°	1.3	115.8	314.3	472.0	529.3
92.5°	1.3	64.9	234.1	375.3	433.8
95°	1.3	30.5	162.9	295.2	341.0
97.5°	1.3	12.7	112.0	222.6	268.5
100°	1.3	6.4	71.2	161.6	201.0
102.5°	2.5	3.8	44.5	115.8	147.6
105°	2.5	3.8	26.7	78.9	105.6



TEST NUMBER: P580312

CATALOG NUMBER: HVSL12-8-LD4-3LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	3.8	5.1	21.6	31.8
115°	3.8	3.8	5.1	14.0	20.4
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°	2.5	3.8	15.3	53.4	72.5
110°	3.8	3.8	8.9	33.1	48.3



(END OF REPORT)