

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: P580536

Luminaire Tested: **HVSL4-3-LD4-1STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580536
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-LD4-1STD-40-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

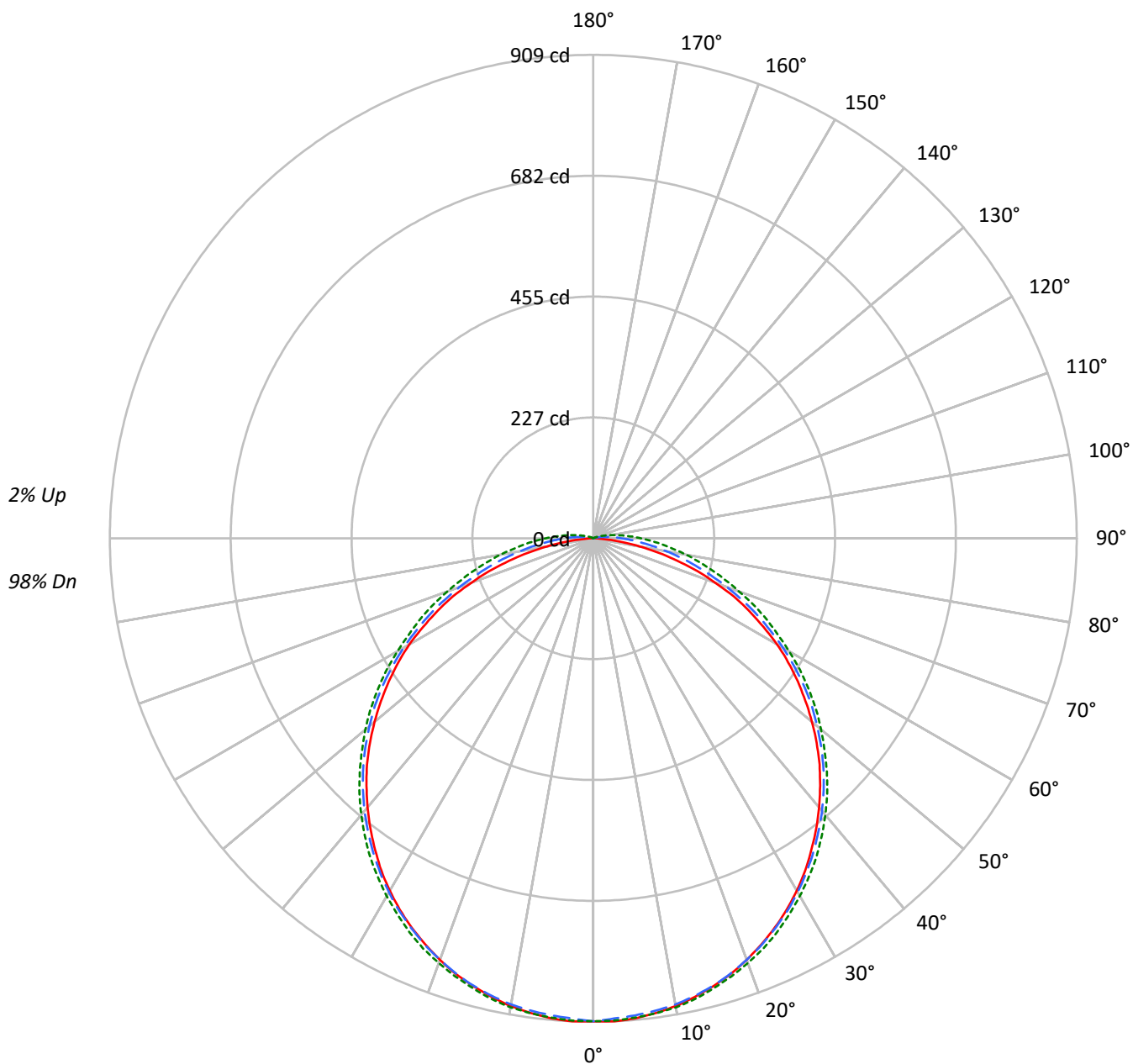
Lumens per Lamp: N/A
Luminaire Lumens: 2746.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.5
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: P580536

CATALOG NUMBER: HVSL4-3-LD4-1STD-40-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580536

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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°	9776	9776	9776
5°	9745	9407	9367
10°	9668	9097	8996
15°	9572	8782	8605
20°	9472	8451	8235
25°	9352	8123	7872
30°	9215	7787	7492
35°	9045	7433	7120
40°	8867	7071	6718
45°	8676	6687	6301
50°	8429	6266	5867
55°	8163	5817	5409
60°	7845	5276	4905
65°	7342	4694	4407
70°	6629	4041	3860
75°	5628	3351	3349
80°	4157	2680	2862
85°	2138	2017	2374



TEST NUMBER: P580536

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.1
10°-20°	246.5	9.0
20°-30°	374.1	13.6
30°-40°	452.3	16.5
40°-50°	472.0	17.2
50°-60°	431.5	15.7
60°-70°	336.4	12.2
70°-80°	210.4	7.7
80°-90°	95.6	3.5
90°-100°	32.0	1.2
100°-110°	8.0	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°	706.5	25.7
0°-40°	1158.8	42.2
0°-60°	2062.3	75.1
0°-90°	2704.7	98.5
90°-120°	41.3	1.5
90°-150°	41.3	1.5
90°-180°	41.0	1.5
0°-180°	2746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	906	905	900	905	905	86
15°	872	873	871	876	876	246
25°	808	808	809	816	817	372
35°	715	718	721	729	732	448
45°	602	607	612	618	621	464
55°	470	475	484	491	494	419
65°	323	328	340	353	359	319
75°	163	173	199	222	231	174
85°	28	52	90	119	129	36
90°	0	20	53	79	89	1
95°	0	5	27	50	57	0
105°	0	1	4	13	18	0
115°	1	1	1	2	3	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	



TEST NUMBER: P580536

CATALOG NUMBER: HVSL4-3-LD4-1STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.2	908.2	908.2	908.2	908.2
2.5°	909.3	908.0	903.9	908.0	907.8
5°	906.3	904.6	900.5	904.8	904.8
7.5°	900.3	899.6	896.0	900.9	900.9
10°	893.2	893.0	890.0	895.4	895.6
12.5°	883.4	884.2	881.4	886.6	887.2
15°	871.8	873.3	871.0	875.9	875.7
17.5°	859.2	860.0	858.3	863.9	863.7
20°	843.6	844.6	843.3	849.1	849.8
22.5°	826.2	827.7	827.5	833.5	835.2
25°	807.8	808.4	809.3	816.1	817.4
27.5°	787.5	788.5	790.0	796.2	797.5
30°	765.2	766.9	768.6	775.0	776.8
32.5°	741.6	743.4	745.5	753.8	754.7
35°	715.1	718.3	721.3	728.6	731.6
37.5°	688.5	692.6	695.4	703.1	705.5
40°	660.5	664.6	669.1	677.2	678.7
42.5°	631.2	635.9	641.2	648.5	651.1
45°	601.6	607.0	611.9	617.9	620.9
47.5°	569.7	575.1	581.1	587.9	589.8
50°	536.7	543.0	549.4	555.8	559.2
52.5°	502.9	510.4	517.7	524.5	527.8
55°	469.5	475.1	483.9	490.9	494.1
57.5°	434.8	439.5	447.5	459.0	460.7
60°	399.5	403.8	411.9	421.3	425.2
62.5°	360.5	366.3	374.9	386.9	390.3
65°	322.6	328.2	339.6	353.1	358.6
67.5°	286.0	288.0	302.5	316.7	325.6
70°	242.8	250.1	267.0	284.3	291.2
72.5°	205.5	212.8	231.4	251.8	260.3
75°	163.4	173.4	198.7	222.4	230.8
77.5°	126.3	137.5	168.7	192.7	202.3
80°	88.2	105.6	139.6	166.6	177.1
82.5°	55.5	76.9	113.3	141.5	150.7
85°	28.3	52.2	89.7	118.6	129.1
87.5°	7.5	33.8	69.8	97.4	108.1
90°	0.2	19.5	52.9	79.4	89.1
92.5°	0.2	10.9	39.4	63.2	73.0
95°	0.2	5.1	27.4	49.7	57.4
97.5°	0.2	2.1	18.8	37.5	45.2
100°	0.2	1.1	12.0	27.2	33.8
102.5°	0.4	0.6	7.5	19.5	24.8
105°	0.4	0.6	4.5	13.3	17.8



TEST NUMBER: P580536

CATALOG NUMBER: HVSL4-3-LD4-1STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.9	3.6	5.4
115°	0.6	0.6	0.9	2.4	3.4
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°	0.4	0.6	2.6	9.0	12.2
110°	0.6	0.6	1.5	5.6	8.1



(END OF REPORT)