

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: P580641

Luminaire Tested: **HVSL4-8-LD4-2HI-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580641
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: HVSL4-8-LD4-2HI-50-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

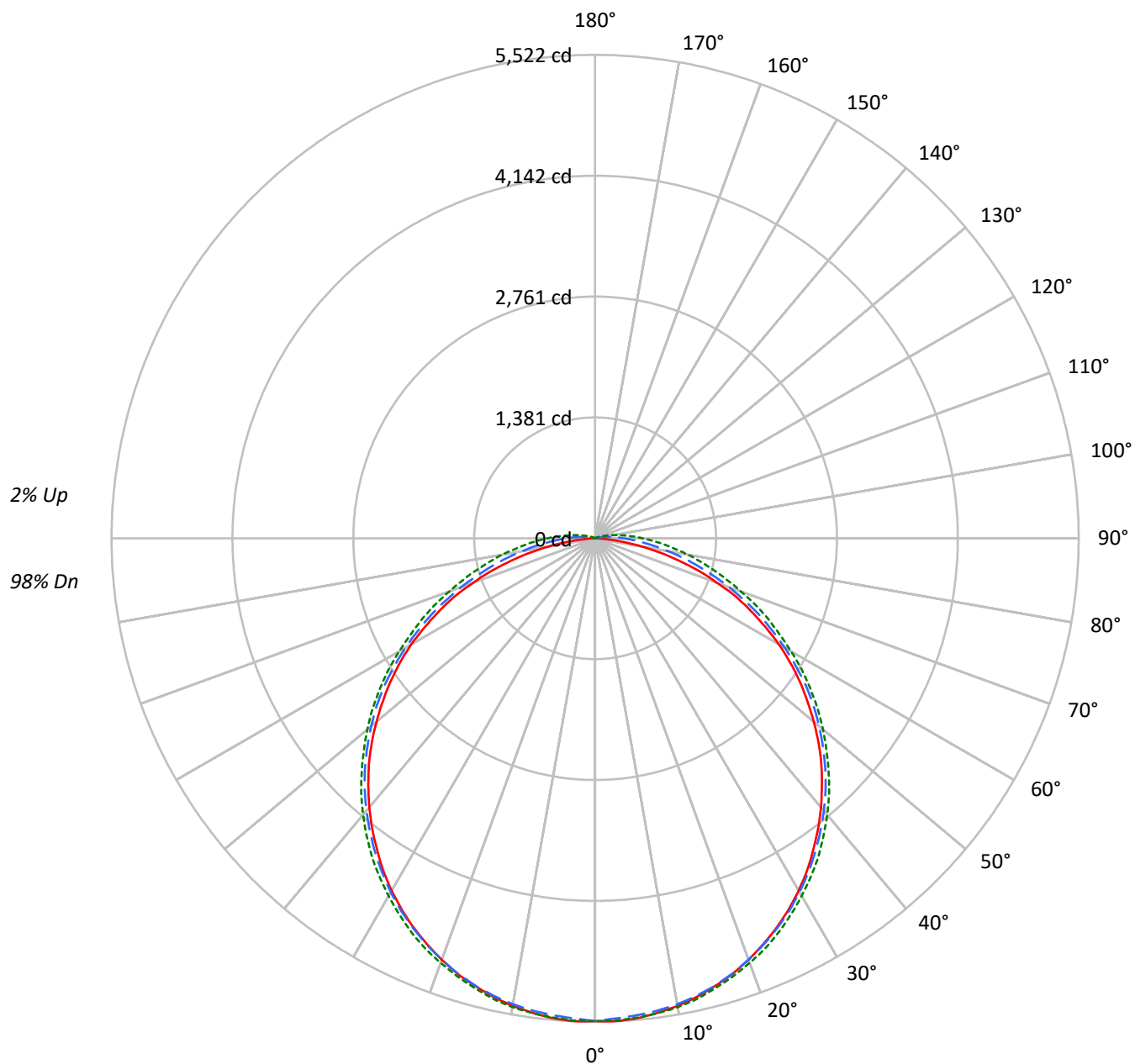
Lumens per Lamp: N/A
Luminaire Lumens: 16677.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 172.4
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

TEST NUMBER: P580641

CATALOG NUMBER: HVSL4-8-LD4-2HI-50-UNV-O-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P580641

CATALOG NUMBER: HVSL4-8-LD4-2HI-50-UNV-O-EDD-90

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°	22264	22264	22264
5°	22261	21468	21331
10°	22153	20803	20487
15°	22003	20118	19597
20°	21841	19400	18755
25°	21639	18681	17929
30°	21403	17941	17061
35°	21092	17160	16215
40°	20773	16355	15299
45°	20432	15503	14349
50°	19974	14560	13363
55°	19487	13551	12320
60°	18905	12330	11171
65°	17915	11004	10037
70°	16460	9510	8791
75°	14356	7925	7626
80°	11136	6380	6516
85°	6419	4843	5407



TEST NUMBER: P580641

CATALOG NUMBER: HVSL4-8-LD4-2HI-50-UNV-O-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	3.1
10°-20°	1497.2	9.0
20°-30°	2271.8	13.6
30°-40°	2746.9	16.5
40°-50°	2866.2	17.2
50°-60°	2620.6	15.7
60°-70°	2042.9	12.2
70°-80°	1277.9	7.7
80°-90°	580.4	3.5
90°-100°	194.5	1.2
100°-110°	48.8	0.3
110°-120°	7.7	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°	4290.9	25.7
0°-40°	7037.9	42.2
0°-60°	12524.7	75.1
0°-90°	16425.9	98.5
90°-120°	251.0	1.5
90°-150°	251.0	1.5
90°-180°	251.0	1.5
0°-180°	16677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5516	5516	5516	5516	5516	
5°	5504	5494	5469	5495	5495	523
15°	5295	5304	5290	5319	5318	1495
25°	4906	4910	4915	4957	4964	2261
35°	4343	4362	4381	4425	4443	2718
45°	3654	3686	3716	3753	3771	2815
55°	2852	2885	2939	2982	3001	2547
65°	1960	1993	2062	2144	2178	1939
75°	992	1053	1207	1351	1402	1058
85°	172	317	545	720	784	217
90°	1	118	321	482	541	7
95°	1	31	166	302	348	1
105°	3	4	27	81	108	3
115°	4	4	5	14	21	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	



TEST NUMBER: P580641

CATALOG NUMBER: HVSL4-8-LD4-2HI-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5515.7	5515.7	5515.7	5515.7	5515.7
2.5°	5522.2	5514.4	5489.7	5514.4	5513.1
5°	5504.0	5493.6	5468.9	5494.9	5494.9
7.5°	5467.6	5463.7	5441.6	5471.5	5471.5
10°	5424.7	5423.4	5405.2	5437.7	5439.0
12.5°	5364.9	5370.1	5353.2	5384.4	5388.3
15°	5294.7	5303.8	5289.5	5319.4	5318.1
17.5°	5218.0	5223.2	5212.8	5246.6	5245.3
20°	5123.1	5129.6	5121.8	5156.9	5160.8
22.5°	5017.7	5026.8	5025.5	5062.0	5072.4
25°	4905.9	4909.8	4915.0	4956.6	4964.4
27.5°	4782.4	4788.9	4798.0	4835.7	4843.5
30°	4647.2	4657.6	4668.0	4707.0	4717.4
32.5°	4504.1	4514.5	4527.5	4578.2	4583.5
35°	4342.9	4362.4	4380.6	4424.8	4443.0
37.5°	4181.7	4206.4	4223.3	4270.1	4284.4
40°	4011.3	4036.0	4063.3	4112.8	4121.9
42.5°	3833.2	3861.8	3894.3	3938.5	3954.1
45°	3653.8	3686.3	3716.2	3752.6	3770.8
47.5°	3460.0	3492.5	3528.9	3570.5	3582.2
50°	3259.8	3297.5	3336.5	3375.5	3396.3
52.5°	3054.3	3099.8	3144.1	3185.7	3205.2
55°	2851.5	2885.3	2938.6	2981.5	3001.0
57.5°	2640.8	2669.5	2717.6	2787.8	2798.2
60°	2426.3	2452.3	2501.7	2558.9	2582.3
62.5°	2189.7	2224.8	2276.8	2349.6	2370.4
65°	1959.5	1993.3	2062.2	2144.1	2178.0
67.5°	1737.2	1748.9	1837.3	1923.1	1977.7
70°	1474.5	1518.7	1621.4	1726.8	1768.4
72.5°	1248.3	1292.5	1405.6	1529.1	1581.1
75°	992.1	1053.2	1206.7	1351.0	1401.7
77.5°	767.2	834.8	1024.6	1170.2	1228.8
80°	535.7	641.0	847.8	1011.6	1075.3
82.5°	336.8	466.8	687.8	859.5	915.4
85°	171.6	317.3	544.8	720.3	784.1
87.5°	45.5	205.4	423.9	591.6	656.6
90°	1.3	118.3	321.2	482.4	540.9
92.5°	1.3	66.3	239.2	383.6	443.4
95°	1.3	31.2	166.4	301.7	348.5
97.5°	1.3	13.0	114.4	227.5	274.4
100°	1.3	6.5	72.8	165.1	205.4
102.5°	2.6	3.9	45.5	118.3	150.8
105°	2.6	3.9	27.3	80.6	107.9



TEST NUMBER: P580641

CATALOG NUMBER: HVSL4-8-LD4-2HI-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.9	3.9	5.2	22.1	32.5
115°	3.9	3.9	5.2	14.3	20.8
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°	2.6	3.9	15.6	54.6	74.1
110°	3.9	3.9	9.1	33.8	49.4



(END OF REPORT)