

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: P580537

Luminaire Tested: **HVSL4-3-LD4-1STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580537
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-50-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

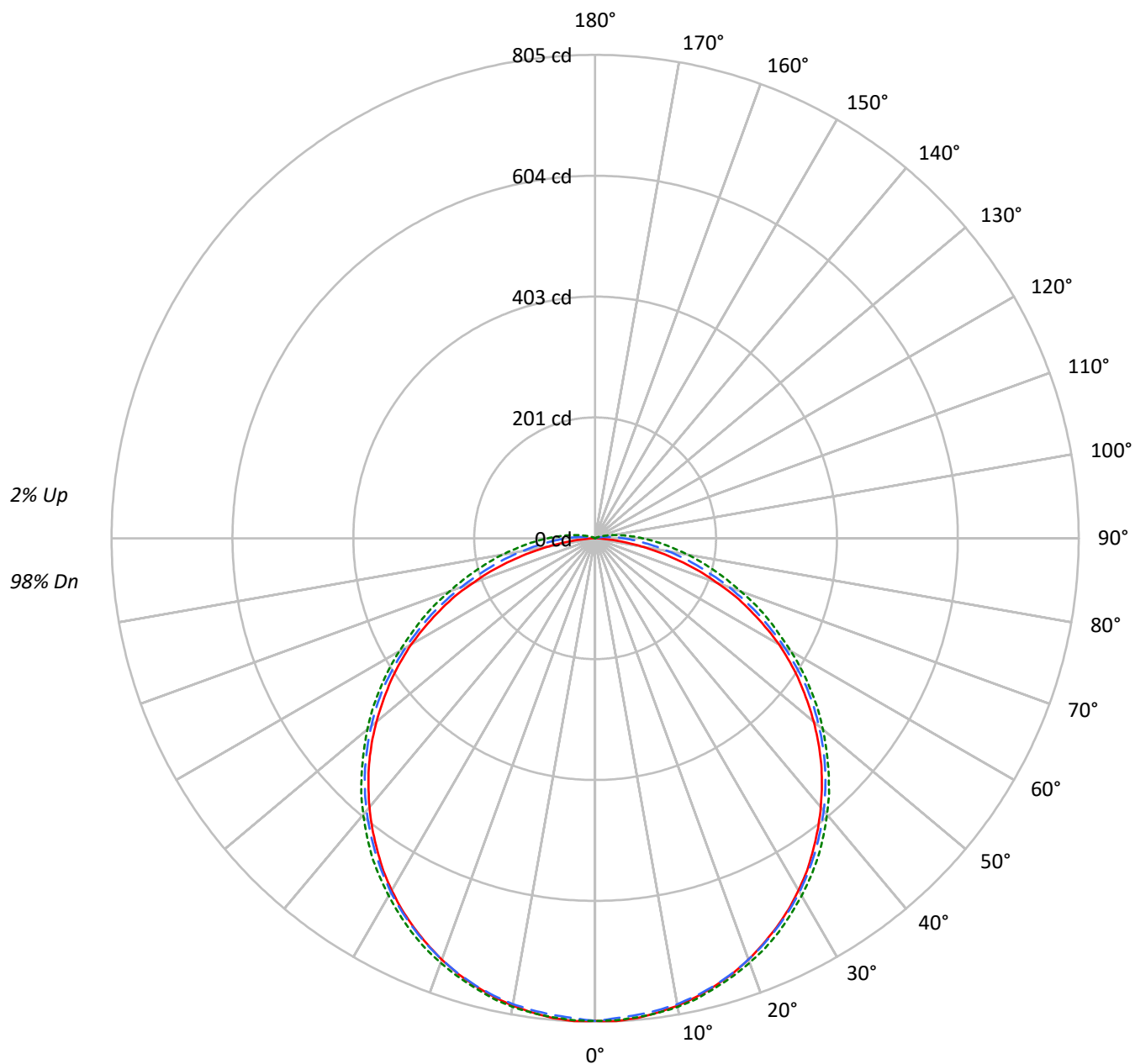
Lumens per Lamp: N/A
Luminaire Lumens: 2430.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	8651	8651	8651
5°	8624	8324	8289
10°	8555	8051	7960
15°	8471	7770	7615
20°	8381	7479	7287
25°	8275	7189	6967
30°	8154	6891	6630
35°	8004	6578	6301
40°	7847	6257	5945
45°	7678	5918	5575
50°	7460	5545	5193
55°	7224	5147	4787
60°	6942	4669	4341
65°	6497	4154	3899
70°	5865	3576	3416
75°	4981	2964	2963
80°	3681	2371	2532
85°	1888	1786	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.1
10°-20°	218.2	9.0
20°-30°	331.0	13.6
30°-40°	400.3	16.5
40°-50°	417.6	17.2
50°-60°	381.8	15.7
60°-70°	297.7	12.2
70°-80°	186.2	7.7
80°-90°	84.6	3.5
90°-100°	28.4	1.2
100°-110°	7.1	0.3
110°-120°	1.1	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°	625.2	25.7
0°-40°	1025.5	42.2
0°-60°	1825.0	75.1
0°-90°	2393.4	98.5
90°-120°	36.6	1.5
90°-150°	36.6	1.5
90°-180°	37.0	1.5
0°-180°	2430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	802	800	797	801	801	76
15°	772	773	771	775	775	218
25°	715	715	716	722	723	329
35°	633	636	638	645	647	396
45°	532	537	542	547	549	410
55°	416	420	428	434	437	371
65°	286	290	300	312	317	282
75°	145	154	176	197	204	154
85°	25	46	79	105	114	32
90°	0	17	47	70	79	1
95°	0	4	24	44	51	0
105°	0	1	4	12	16	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.7	803.7	803.7	803.7	803.7
2.5°	804.6	803.5	799.9	803.5	803.3
5°	802.0	800.5	796.9	800.7	800.7
7.5°	796.7	796.1	792.9	797.3	797.3
10°	790.4	790.2	787.6	792.3	792.5
12.5°	781.7	782.5	780.0	784.6	785.1
15°	771.5	772.8	770.7	775.1	774.9
17.5°	760.3	761.1	759.6	764.5	764.3
20°	746.5	747.4	746.3	751.4	752.0
22.5°	731.1	732.5	732.3	737.6	739.1
25°	714.8	715.4	716.2	722.2	723.4
27.5°	696.8	697.8	699.1	704.6	705.7
30°	677.1	678.7	680.2	685.9	687.4
32.5°	656.3	657.8	659.7	667.1	667.9
35°	632.8	635.6	638.3	644.7	647.4
37.5°	609.3	612.9	615.4	622.2	624.3
40°	584.5	588.1	592.1	599.3	600.6
42.5°	558.5	562.7	567.4	573.9	576.2
45°	532.4	537.1	541.5	546.8	549.4
47.5°	504.2	508.9	514.2	520.3	522.0
50°	475.0	480.5	486.2	491.8	494.9
52.5°	445.0	451.7	458.1	464.2	467.0
55°	415.5	420.4	428.2	434.4	437.3
57.5°	384.8	389.0	396.0	406.2	407.7
60°	353.5	357.3	364.5	372.9	376.3
62.5°	319.1	324.2	331.7	342.4	345.4
65°	285.5	290.4	300.5	312.4	317.3
67.5°	253.1	254.8	267.7	280.2	288.2
70°	214.8	221.3	236.3	251.6	257.7
72.5°	181.9	188.3	204.8	222.8	230.4
75°	144.6	153.5	175.8	196.9	204.2
77.5°	111.8	121.6	149.3	170.5	179.0
80°	78.1	93.4	123.5	147.4	156.7
82.5°	49.1	68.0	100.2	125.2	133.4
85°	25.0	46.2	79.4	105.0	114.2
87.5°	6.6	29.9	61.8	86.2	95.7
90°	0.2	17.2	46.8	70.3	78.8
92.5°	0.2	9.7	34.9	55.9	64.6
95°	0.2	4.5	24.3	44.0	50.8
97.5°	0.2	1.9	16.7	33.2	40.0
100°	0.2	0.9	10.6	24.1	29.9
102.5°	0.4	0.6	6.6	17.2	22.0
105°	0.4	0.6	4.0	11.7	15.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.2	4.7
115°	0.6	0.6	0.8	2.1	3.0
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	2.3	8.0	10.8
110°	0.6	0.6	1.3	4.9	7.2



(END OF REPORT)