

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: P580643

Luminaire Tested: **HVSL4-8-LD4-2LO-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580643
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-LD4-2LO-30-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

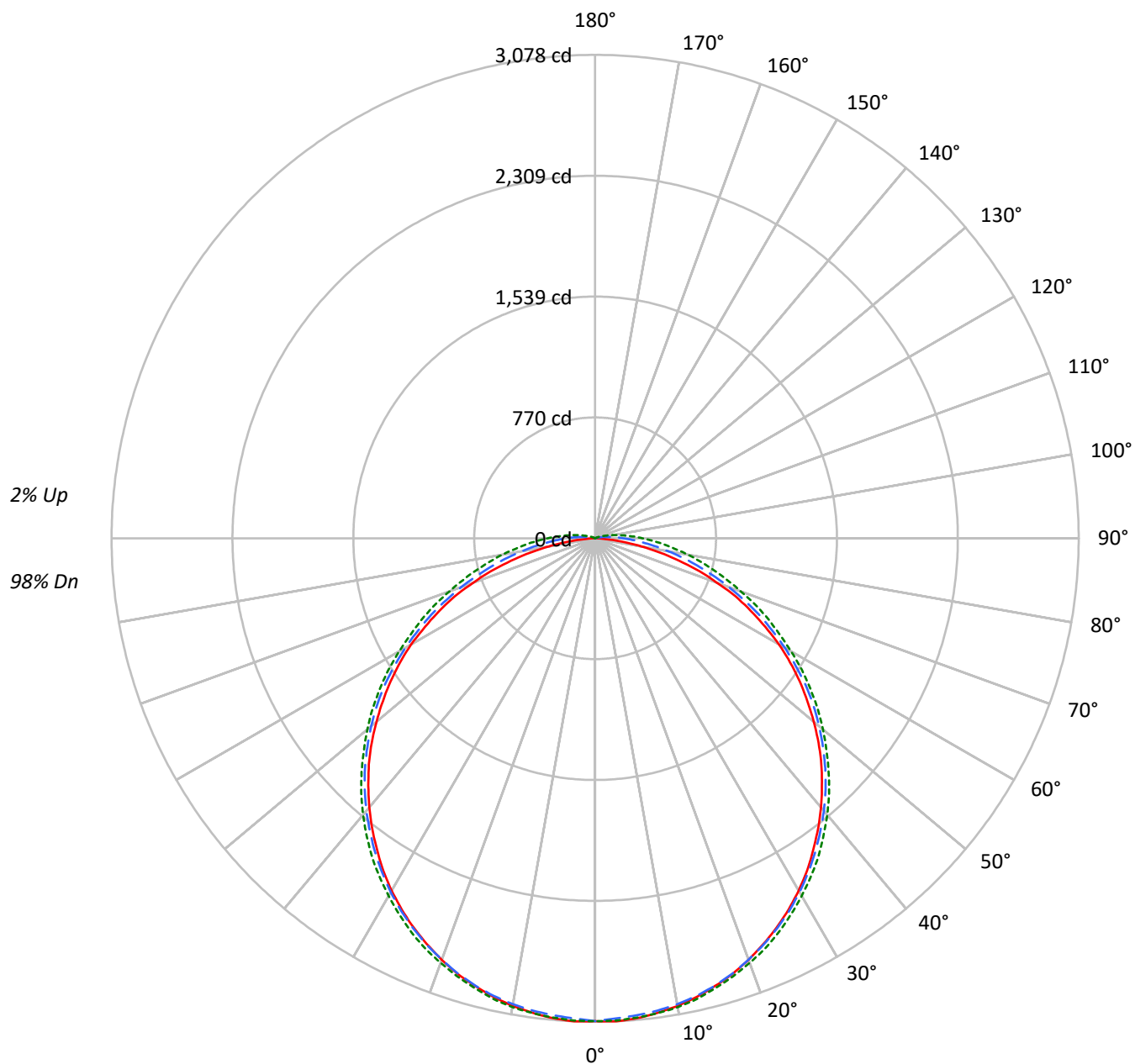
Lumens per Lamp: N/A
Luminaire Lumens: 9296.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 92.4
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

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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°	12411	12411	12411
5°	12409	11967	11891
10°	12348	11596	11420
15°	12265	11214	10924
20°	12174	10813	10454
25°	12062	10413	9994
30°	11930	10001	9510
35°	11757	9565	9039
40°	11580	9117	8528
45°	11389	8641	7998
50°	11134	8116	7449
55°	10863	7554	6867
60°	10538	6873	6227
65°	9986	6134	5595
70°	9175	5301	4900
75°	8002	4417	4251
80°	6207	3556	3632
85°	3580	2699	3013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.9	3.1
10°-20°	834.6	9.0
20°-30°	1266.3	13.6
30°-40°	1531.2	16.5
40°-50°	1597.7	17.2
50°-60°	1460.7	15.7
60°-70°	1138.7	12.2
70°-80°	712.3	7.7
80°-90°	323.5	3.5
90°-100°	108.4	1.2
100°-110°	27.2	0.3
110°-120°	4.3	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°	2391.8	25.7
0°-40°	3923.0	42.2
0°-60°	6981.4	75.1
0°-90°	9156.0	98.5
90°-120°	139.9	1.5
90°-150°	139.9	1.5
90°-180°	140.0	1.5
0°-180°	9296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3075	3075	3075	3075	3075	
5°	3068	3062	3048	3063	3063	291
15°	2951	2956	2948	2965	2964	833
25°	2735	2737	2740	2763	2767	1260
35°	2421	2432	2442	2466	2477	1515
45°	2037	2055	2071	2092	2102	1569
55°	1590	1608	1638	1662	1673	1420
65°	1092	1111	1150	1195	1214	1081
75°	553	587	673	753	781	589
85°	96	177	304	402	437	121
90°	1	66	179	269	302	4
95°	1	17	93	168	194	1
105°	1	2	15	45	60	1
115°	2	2	3	8	12	1
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°	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	3078.2	3073.8	3060.1	3073.8	3073.1
5°	3068.0	3062.2	3048.5	3063.0	3063.0
7.5°	3047.7	3045.6	3033.2	3049.9	3049.9
10°	3023.8	3023.1	3012.9	3031.1	3031.8
12.5°	2990.5	2993.4	2984.0	3001.4	3003.5
15°	2951.3	2956.4	2948.4	2965.1	2964.4
17.5°	2908.6	2911.5	2905.7	2924.5	2923.8
20°	2855.7	2859.3	2854.9	2874.5	2876.7
22.5°	2797.0	2802.0	2801.3	2821.6	2827.4
25°	2734.6	2736.8	2739.7	2762.9	2767.2
27.5°	2665.8	2669.4	2674.5	2695.5	2699.8
30°	2590.4	2596.2	2602.0	2623.7	2629.5
32.5°	2510.7	2516.5	2523.7	2552.0	2554.9
35°	2420.8	2431.7	2441.8	2466.5	2476.6
37.5°	2330.9	2344.7	2354.1	2380.2	2388.2
40°	2236.0	2249.7	2265.0	2292.5	2297.6
42.5°	2136.7	2152.6	2170.7	2195.4	2204.1
45°	2036.7	2054.8	2071.4	2091.7	2101.9
47.5°	1928.7	1946.8	1967.1	1990.3	1996.8
50°	1817.0	1838.1	1859.8	1881.6	1893.1
52.5°	1702.5	1727.9	1752.5	1775.7	1786.6
55°	1589.5	1608.3	1638.0	1661.9	1672.8
57.5°	1472.0	1488.0	1514.8	1553.9	1559.7
60°	1352.5	1367.0	1394.5	1426.4	1439.4
62.5°	1220.5	1240.1	1269.1	1309.7	1321.3
65°	1092.3	1111.1	1149.5	1195.2	1214.0
67.5°	968.3	974.8	1024.1	1072.0	1102.4
70°	821.9	846.6	903.8	962.5	985.7
72.5°	695.8	720.4	783.5	852.4	881.3
75°	553.0	587.1	672.6	753.1	781.3
77.5°	427.6	465.3	571.1	652.3	684.9
80°	298.6	357.3	472.6	563.9	599.4
82.5°	187.7	260.2	383.4	479.1	510.3
85°	95.7	176.8	303.7	401.5	437.0
87.5°	25.4	114.5	236.3	329.8	366.0
90°	0.7	66.0	179.0	268.9	301.5
92.5°	0.7	37.0	133.4	213.8	247.2
95°	0.7	17.4	92.8	168.2	194.2
97.5°	0.7	7.2	63.8	126.8	152.9
100°	0.7	3.6	40.6	92.0	114.5
102.5°	1.4	2.2	25.4	66.0	84.1
105°	1.4	2.2	15.2	44.9	60.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	2.9	12.3	18.1
115°	2.2	2.2	2.9	8.0	11.6
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°	1.4	2.2	8.7	30.4	41.3
110°	2.2	2.2	5.1	18.8	27.5



(END OF REPORT)