

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: P580636

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580636
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-30-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

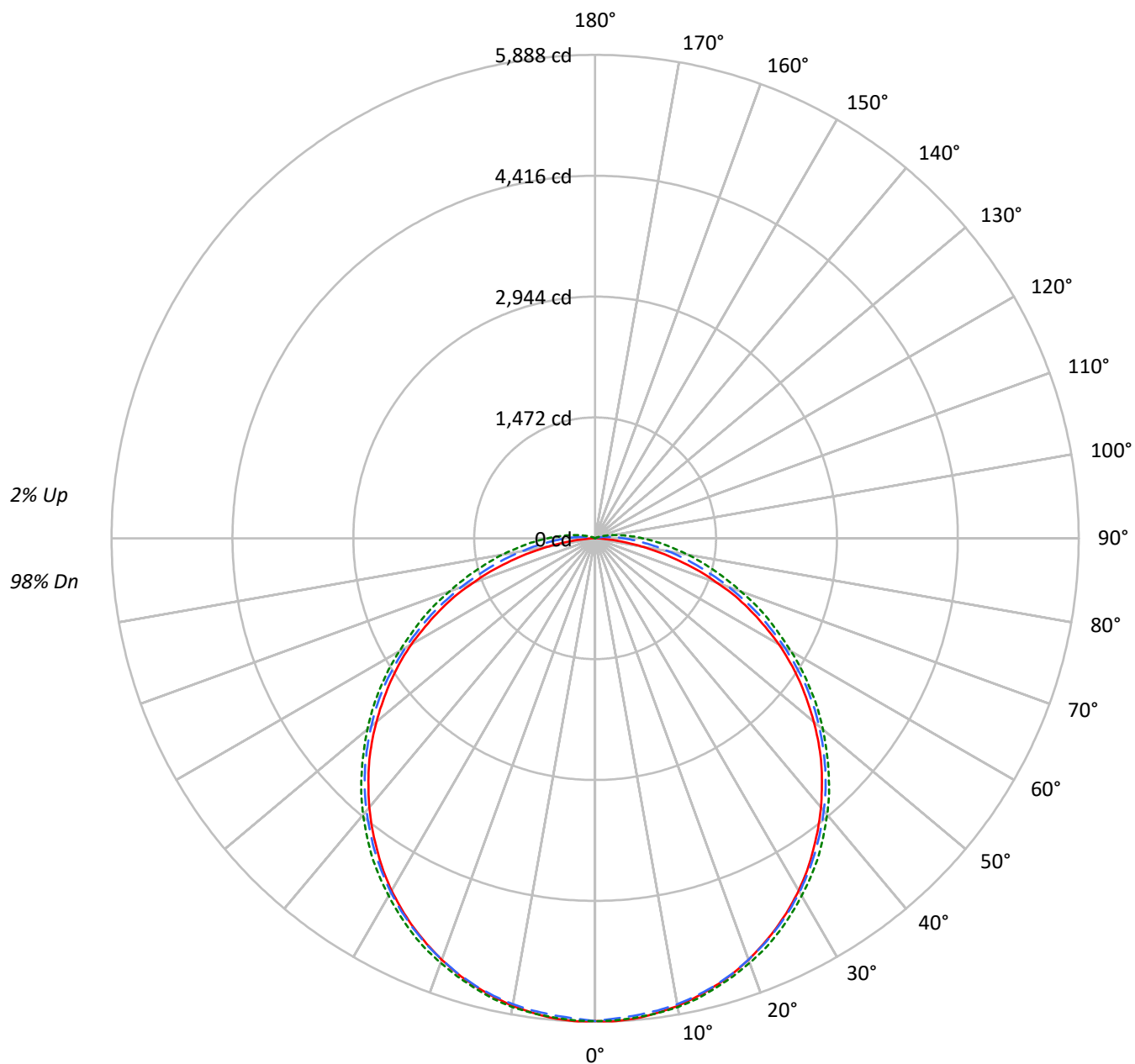
Lumens per Lamp: N/A
Luminaire Lumens: 17781.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

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

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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°	23738	23738	23738
5°	23735	22889	22744
10°	23619	22180	21843
15°	23460	21450	20895
20°	23286	20684	19996
25°	23072	19918	19116
30°	22819	19129	18191
35°	22489	18296	17289
40°	22149	17438	16312
45°	21784	16529	15299
50°	21297	15524	14248
55°	20777	14448	13136
60°	20156	13146	11910
65°	19101	11732	10702
70°	17549	10140	9373
75°	15307	8449	8131
80°	11874	6802	6947
85°	6845	5163	5765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.5	3.1
10°-20°	1596.3	9.0
20°-30°	2422.1	13.6
30°-40°	2928.8	16.5
40°-50°	3056.0	17.2
50°-60°	2794.1	15.7
60°-70°	2178.1	12.2
70°-80°	1362.5	7.7
80°-90°	618.8	3.5
90°-100°	207.4	1.2
100°-110°	52.1	0.3
110°-120°	8.2	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°	4575.0	25.7
0°-40°	7503.8	42.2
0°-60°	13353.8	75.1
0°-90°	17513.3	98.5
90°-120°	267.7	1.5
90°-150°	267.7	1.5
90°-180°	268.0	1.5
0°-180°	17781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5881	5881	5881	5881	5881	
5°	5868	5857	5831	5859	5859	557
15°	5645	5655	5640	5672	5670	1594
25°	5231	5235	5240	5285	5293	2410
35°	4630	4651	4671	4718	4737	2898
45°	3896	3930	3962	4001	4020	3002
55°	3040	3076	3133	3179	3200	2716
65°	2089	2125	2199	2286	2322	2067
75°	1058	1123	1286	1440	1494	1128
85°	183	338	581	768	836	232
90°	1	126	342	514	577	7
95°	1	33	178	322	372	1
105°	3	4	29	86	115	3
115°	4	4	6	15	22	3
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°	5880.9	5880.9	5880.9	5880.9	5880.9
2.5°	5887.8	5879.5	5853.2	5879.5	5878.1
5°	5868.4	5857.3	5831.0	5858.7	5858.7
7.5°	5829.6	5825.4	5801.9	5833.7	5833.7
10°	5783.8	5782.5	5763.0	5797.7	5799.1
12.5°	5720.1	5725.6	5707.6	5740.9	5745.0
15°	5645.2	5654.9	5639.7	5671.5	5670.2
17.5°	5563.4	5569.0	5557.9	5593.9	5592.5
20°	5462.2	5469.1	5460.8	5498.2	5502.4
22.5°	5349.9	5359.6	5358.2	5397.0	5408.1
25°	5230.7	5234.8	5240.4	5284.8	5293.1
27.5°	5099.0	5105.9	5115.6	5155.8	5164.1
30°	4954.8	4965.9	4977.0	5018.6	5029.7
32.5°	4802.3	4813.4	4827.3	4881.3	4886.9
35°	4630.4	4651.2	4670.6	4717.7	4737.1
37.5°	4458.5	4484.8	4502.9	4552.8	4568.0
40°	4276.9	4303.2	4332.3	4385.0	4394.7
42.5°	4086.9	4117.4	4152.1	4199.2	4215.9
45°	3895.6	3930.3	3962.2	4001.0	4020.4
47.5°	3689.1	3723.7	3762.5	3806.9	3819.4
50°	3475.6	3515.8	3557.4	3599.0	3621.1
52.5°	3256.5	3305.0	3352.2	3396.5	3417.3
55°	3040.3	3076.3	3133.1	3178.9	3199.7
57.5°	2815.7	2846.2	2897.5	2972.3	2983.4
60°	2586.9	2614.6	2667.3	2728.3	2753.3
62.5°	2334.6	2372.0	2427.5	2505.1	2527.3
65°	2089.2	2125.3	2198.7	2286.1	2322.1
67.5°	1852.2	1864.6	1958.9	2050.4	2108.6
70°	1572.1	1619.3	1728.8	1841.1	1885.4
72.5°	1330.9	1378.0	1498.6	1630.3	1685.8
75°	1057.8	1122.9	1286.5	1440.4	1494.5
77.5°	817.9	890.0	1092.4	1247.7	1310.1
80°	571.2	683.5	903.9	1078.6	1146.5
82.5°	359.1	497.7	733.4	916.4	976.0
85°	183.0	338.3	580.9	768.0	836.0
87.5°	48.5	219.0	451.9	630.8	700.1
90°	1.4	126.2	342.4	514.3	576.7
92.5°	1.4	70.7	255.1	409.0	472.7
95°	1.4	33.3	177.5	321.6	371.5
97.5°	1.4	13.9	122.0	242.6	292.5
100°	1.4	6.9	77.6	176.1	219.0
102.5°	2.8	4.2	48.5	126.2	160.8
105°	2.8	4.2	29.1	86.0	115.1



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CATALOG NUMBER: HVSL4-8-LD4-2HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.2	4.2	5.5	23.6	34.7
115°	4.2	4.2	5.5	15.2	22.2
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°	2.8	4.2	16.6	58.2	79.0
110°	4.2	4.2	9.7	36.0	52.7



(END OF REPORT)