

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: P580640

Luminaire Tested: **HVSL4-8-LD4-2HI-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580640
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-40-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

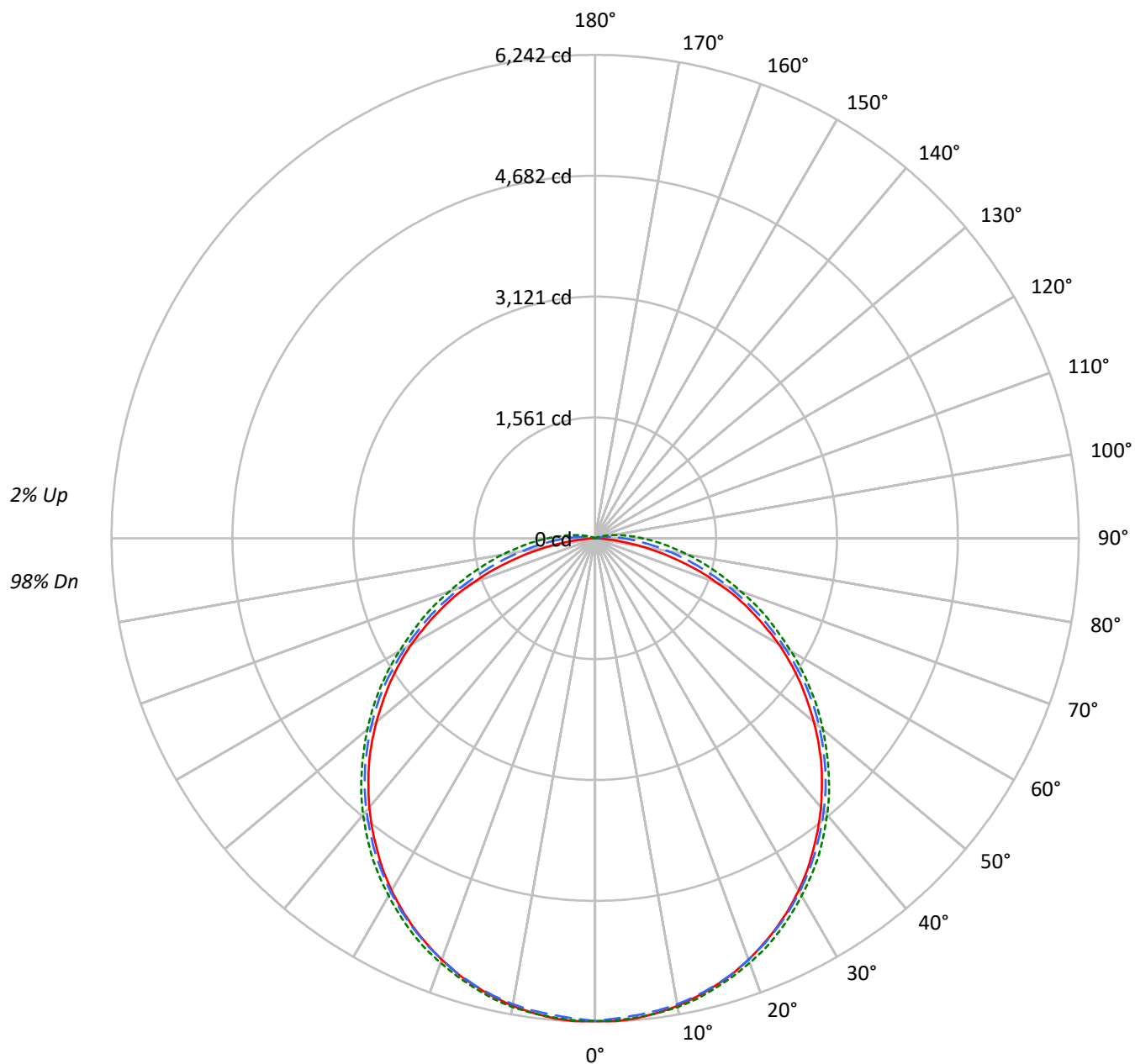
Lumens per Lamp: N/A
Luminaire Lumens: 18849.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

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°	25164	25164	25164
5°	25161	24264	24110
10°	25038	23513	23155
15°	24869	22739	22150
20°	24685	21926	21197
25°	24458	21114	20264
30°	24190	20278	19283
35°	23839	19395	18327
40°	23479	18485	17292
45°	23092	17522	16218
50°	22575	16456	15103
55°	22025	15316	13925
60°	21367	13935	12626
65°	20248	12437	11344
70°	18603	10749	9936
75°	16226	8957	8619
80°	12587	7210	7365
85°	7256	5474	6111



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.9	3.1
10°-20°	1692.2	9.0
20°-30°	2567.6	13.6
30°-40°	3104.7	16.5
40°-50°	3239.5	17.2
50°-60°	2961.9	15.7
60°-70°	2308.9	12.2
70°-80°	1444.4	7.7
80°-90°	656.0	3.5
90°-100°	219.9	1.2
100°-110°	55.2	0.3
110°-120°	8.7	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°	4849.8	25.7
0°-40°	7954.5	42.2
0°-60°	14155.9	75.1
0°-90°	18565.2	98.5
90°-120°	283.8	1.5
90°-150°	283.8	1.5
90°-180°	284.0	1.5
0°-180°	18849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6234	6234	6234	6234	6234	
5°	6221	6209	6181	6211	6211	591
15°	5984	5995	5978	6012	6011	1689
25°	5545	5549	5555	5602	5611	2555
35°	4908	4931	4951	5001	5022	3072
45°	4130	4166	4200	4241	4262	3182
55°	3223	3261	3321	3370	3392	2879
65°	2215	2253	2331	2423	2462	2191
75°	1121	1190	1364	1527	1584	1195
85°	194	359	616	814	886	245
90°	2	134	363	545	611	8
95°	2	35	188	341	394	1
105°	3	4	31	91	122	3
115°	4	4	6	16	24	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	



TEST NUMBER: P580640

CATALOG NUMBER: HVSL4-8-LD4-2HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6234.1	6234.1	6234.1	6234.1	6234.1
2.5°	6241.5	6232.6	6204.7	6232.6	6231.2
5°	6220.9	6209.1	6181.2	6210.6	6210.6
7.5°	6179.7	6175.3	6150.3	6184.1	6184.1
10°	6131.2	6129.8	6109.2	6145.9	6147.4
12.5°	6063.6	6069.5	6050.4	6085.7	6090.1
15°	5984.3	5994.6	5978.4	6012.2	6010.7
17.5°	5897.6	5903.4	5891.7	5929.9	5928.4
20°	5790.3	5797.6	5788.8	5828.5	5832.9
22.5°	5671.2	5681.5	5680.1	5721.2	5733.0
25°	5544.9	5549.3	5555.1	5602.2	5611.0
27.5°	5405.2	5412.6	5422.9	5465.5	5474.3
30°	5252.4	5264.2	5275.9	5320.0	5331.8
32.5°	5090.7	5102.5	5117.2	5174.5	5180.4
35°	4908.5	4930.6	4951.1	5001.1	5021.7
37.5°	4726.3	4754.2	4773.3	4826.2	4842.4
40°	4533.8	4561.7	4592.5	4648.4	4658.7
42.5°	4332.4	4364.8	4401.5	4451.5	4469.1
45°	4129.6	4166.4	4200.2	4241.3	4261.9
47.5°	3910.6	3947.4	3988.5	4035.6	4048.8
50°	3684.3	3726.9	3771.0	3815.1	3838.6
52.5°	3452.1	3503.6	3553.5	3600.6	3622.6
55°	3222.9	3261.1	3321.3	3369.8	3391.9
57.5°	2984.8	3017.1	3071.5	3150.9	3162.6
60°	2742.3	2771.7	2827.5	2892.2	2918.7
62.5°	2474.8	2514.5	2573.3	2655.6	2679.1
65°	2214.7	2252.9	2330.8	2423.4	2461.6
67.5°	1963.4	1976.6	2076.6	2173.6	2235.3
70°	1666.5	1716.5	1832.6	1951.6	1998.7
72.5°	1410.8	1460.8	1588.7	1728.3	1787.1
75°	1121.3	1190.4	1363.8	1526.9	1584.2
77.5°	867.1	943.5	1158.1	1322.7	1388.8
80°	605.5	724.5	958.2	1143.4	1215.4
82.5°	380.6	527.6	777.4	971.4	1034.6
85°	194.0	358.6	615.8	814.2	886.2
87.5°	51.4	232.2	479.1	668.7	742.2
90°	1.5	133.7	363.0	545.2	611.4
92.5°	1.5	75.0	270.4	433.5	501.1
95°	1.5	35.3	188.1	341.0	393.9
97.5°	1.5	14.7	129.3	257.2	310.1
100°	1.5	7.3	82.3	186.6	232.2
102.5°	2.9	4.4	51.4	133.7	170.5
105°	2.9	4.4	30.9	91.1	122.0



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CATALOG NUMBER: HVSL4-8-LD4-2HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.4	4.4	5.9	25.0	36.7
115°	4.4	4.4	5.9	16.2	23.5
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°	2.9	4.4	17.6	61.7	83.8
110°	4.4	4.4	10.3	38.2	55.8



(END OF REPORT)