

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: METALUX

Report Number: P563255

Luminaire Tested: **VHB-12-N-UNV-L850-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-N-UNV-L850-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

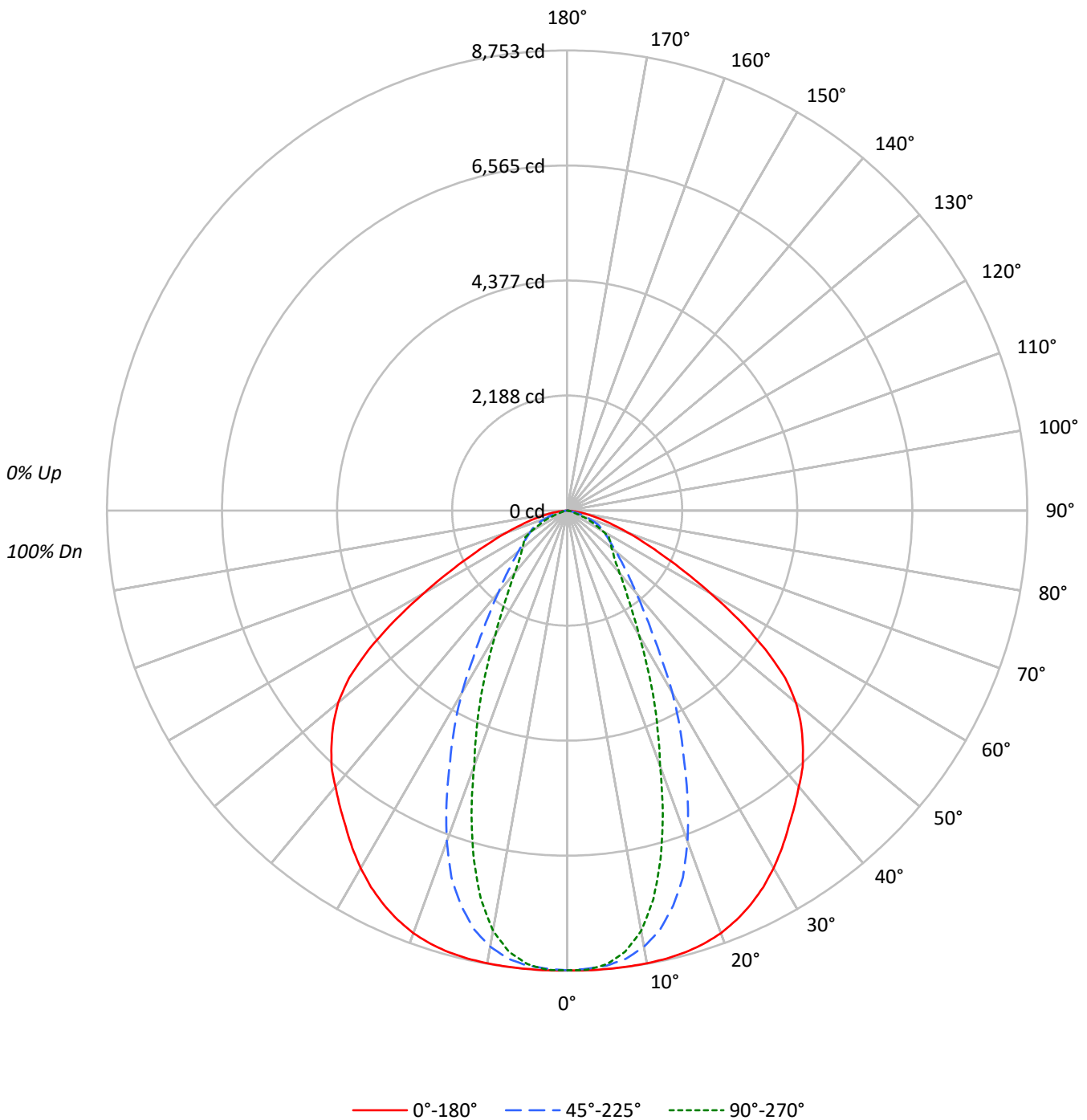
Lumens per Lamp: N/A
Luminaire Lumens: 12333.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	50959	50959	50959
5°	51198	50809	50663
10°	51736	49835	48015
15°	52474	46954	41400
20°	53039	41481	32054
25°	53146	33872	24837
30°	52848	26903	18383
35°	52244	19935	14294
40°	52162	15481	11797
45°	52272	12740	10480
50°	51530	11018	9996
55°	46780	9822	10099
60°	36778	9386	9202
65°	27316	9098	6926
70°	20951	7284	4227
75°	15947	5194	2333
80°	11712	2416	1883
85°	7328	2079	1678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.6	6.7
10°-20°	2162.9	17.5
20°-30°	2611.9	21.2
30°-40°	2335.3	18.9
40°-50°	1828.7	14.8
50°-60°	1381.7	11.2
60°-70°	820.7	6.7
70°-80°	315.4	2.6
80°-90°	54.8	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	5596.3	45.4
0°-40°	7931.7	64.3
0°-60°	11142.1	90.3
0°-90°	12333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8745	8745	8745	8745	8745	
5°	8753	8714	8686	8675	8661	835
15°	8698	8411	7783	7133	6863	2458
25°	8266	7294	5268	4154	3863	3806
35°	7344	5226	2802	2185	2009	4606
45°	6343	2703	1546	1306	1272	4883
55°	4605	1466	967	963	994	4044
65°	1981	823	660	550	502	2041
75°	708	396	231	114	104	775
85°	110	38	31	27	25	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8745.0	8745.0	8745.0	8745.0	8745.0
2.5°	8753.3	8724.4	8722.1	8740.7	8743.5
5°	8752.7	8714.5	8686.2	8674.8	8661.1
7.5°	8750.0	8692.2	8596.8	8505.2	8462.6
10°	8743.5	8640.9	8422.3	8214.0	8114.7
12.5°	8729.3	8549.3	8163.2	7780.4	7572.1
15°	8698.2	8411.4	7783.2	7132.6	6862.6
17.5°	8642.0	8221.0	7317.5	6399.2	6051.8
20°	8553.1	7978.9	6689.3	5562.7	5169.0
22.5°	8425.5	7662.7	5997.3	4809.6	4495.0
25°	8265.8	7293.5	5268.2	4153.6	3862.9
27.5°	8076.0	6862.6	4640.0	3542.9	3256.5
30°	7854.1	6359.3	3998.2	2965.9	2732.0
32.5°	7605.9	5829.3	3328.0	2525.8	2333.4
35°	7344.2	5226.2	2802.3	2185.0	2009.4
37.5°	7097.7	4580.5	2373.2	1883.5	1760.2
40°	6857.3	3902.2	2035.1	1645.2	1550.9
42.5°	6630.4	3253.3	1776.6	1445.6	1383.9
45°	6343.0	2702.6	1545.9	1306.0	1271.7
47.5°	6038.1	2281.0	1362.7	1192.5	1180.6
50°	5684.2	1943.0	1215.4	1093.9	1102.6
52.5°	5225.1	1675.7	1075.8	1024.1	1049.7
55°	4604.6	1466.4	966.8	963.0	994.1
57.5°	3877.7	1266.2	880.6	904.7	939.5
60°	3155.7	1105.4	805.4	840.3	789.6
62.5°	2521.0	957.6	734.0	670.1	626.6
65°	1981.1	823.4	659.8	550.3	502.3
67.5°	1579.8	698.5	555.1	437.9	398.1
70°	1229.7	587.3	427.5	328.8	248.1
72.5°	942.3	490.8	333.7	187.1	141.3
75°	708.3	395.9	230.7	114.0	103.6
77.5°	505.0	294.0	123.2	82.3	76.4
80°	349.0	188.7	72.0	59.4	56.1
82.5°	216.5	91.1	49.1	42.5	39.8
85°	109.6	38.2	31.1	27.2	25.1
87.5°	36.5	18.6	14.1	13.1	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)