

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: P565432

Luminaire Tested: **VHB-12-N-UNV-L935-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-2)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-N-UNV-L935-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 3500K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

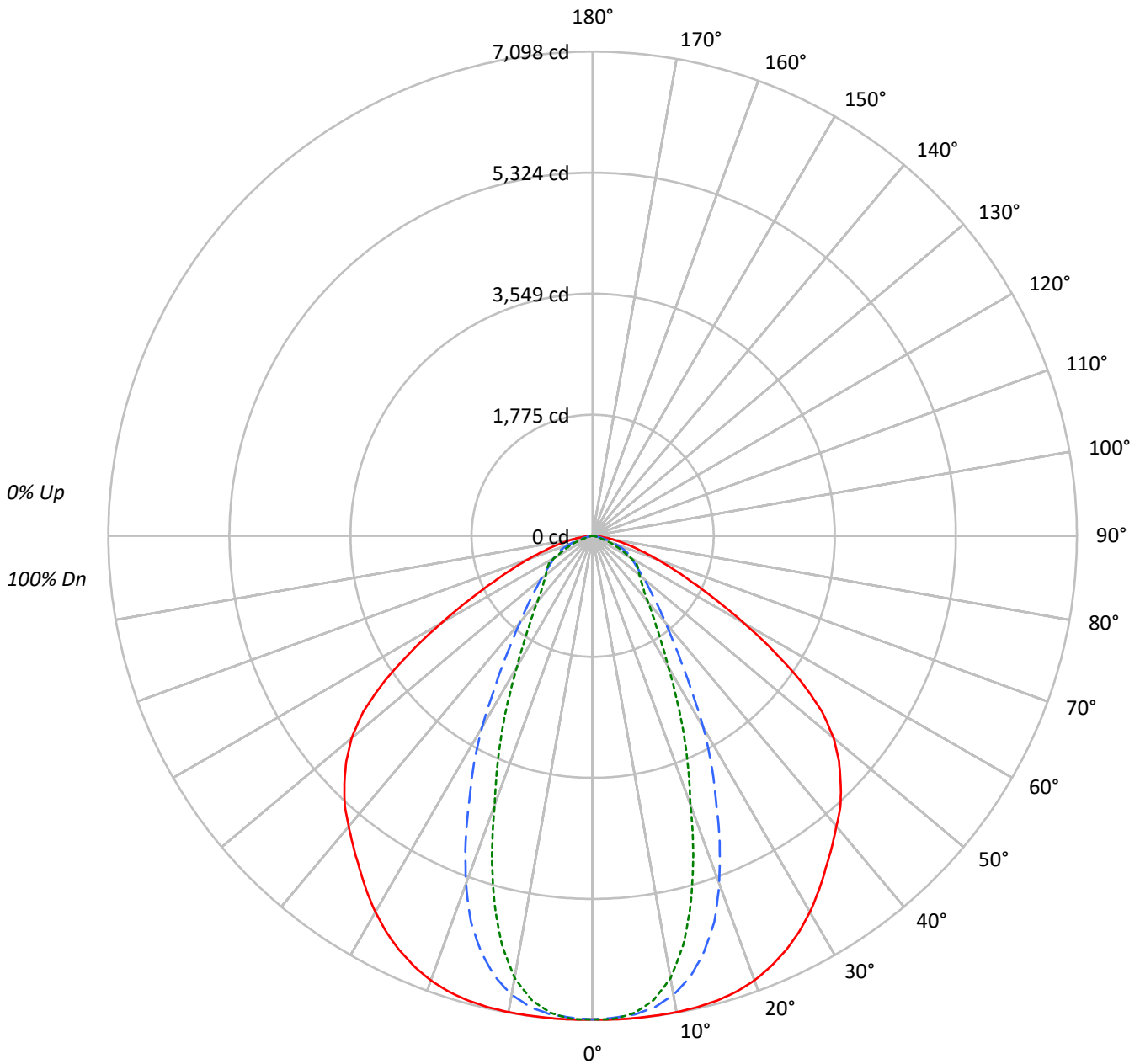
Lumens per Lamp: N/A
Luminaire Lumens: 10001.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	43618	43618	43618
5°	43823	43490	43364
10°	44283	42656	41098
15°	44915	40190	35437
20°	45399	35506	27436
25°	45490	28993	21259
30°	45235	23027	15734
35°	44718	17063	12235
40°	44648	13251	10098
45°	44742	10904	8970
50°	44108	9432	8556
55°	40041	8407	8644
60°	31480	8034	7877
65°	23381	7788	5928
70°	17933	6235	3618
75°	13651	4444	1996
80°	10024	2069	1612
85°	6274	1778	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.3	6.7
10°-20°	1753.9	17.5
20°-30°	2118.0	21.2
30°-40°	1893.8	18.9
40°-50°	1482.9	14.8
50°-60°	1120.5	11.2
60°-70°	665.5	6.7
70°-80°	255.7	2.6
80°-90°	44.4	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°	4538.2	45.4
0°-40°	6431.9	64.3
0°-60°	9035.3	90.3
0°-90°	10001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7092	7092	7092	7092	7092	
5°	7098	7067	7044	7034	7023	677
15°	7054	6821	6312	5784	5565	1993
25°	6703	5914	4272	3368	3132	3086
35°	5956	4238	2272	1772	1630	3735
45°	5144	2192	1254	1059	1031	3959
55°	3734	1189	784	781	806	3279
65°	1606	668	535	446	407	1655
75°	574	321	187	92	84	629
85°	89	31	25	22	20	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7091.5	7091.5	7091.5	7091.5	7091.5
2.5°	7098.1	7074.7	7072.9	7088.0	7090.2
5°	7097.7	7066.7	7043.8	7034.5	7023.4
7.5°	7095.5	7048.6	6971.2	6896.9	6862.5
10°	7090.2	7007.1	6829.7	6660.8	6580.3
12.5°	7078.7	6932.8	6619.7	6309.3	6140.3
15°	7053.5	6820.9	6311.5	5783.9	5565.0
17.5°	7007.9	6666.6	5933.8	5189.2	4907.5
20°	6935.9	6470.2	5424.4	4510.9	4191.6
22.5°	6832.4	6213.8	4863.3	3900.2	3645.0
25°	6702.8	5914.4	4272.1	3368.2	3132.5
27.5°	6548.9	5565.0	3762.7	2873.0	2640.8
30°	6369.0	5156.9	3242.2	2405.1	2215.4
32.5°	6167.8	4727.1	2698.7	2048.3	1892.2
35°	5955.5	4238.0	2272.4	1771.9	1629.5
37.5°	5755.6	3714.5	1924.4	1527.3	1427.4
40°	5560.6	3164.4	1650.3	1334.1	1257.6
42.5°	5376.7	2638.1	1440.7	1172.3	1122.3
45°	5143.6	2191.5	1253.6	1059.1	1031.2
47.5°	4896.4	1849.7	1105.1	967.1	957.4
50°	4609.5	1575.5	985.7	887.0	894.1
52.5°	4237.1	1358.9	872.5	830.4	851.2
55°	3733.9	1189.1	784.0	780.9	806.1
57.5°	3144.5	1026.8	714.1	733.6	761.9
60°	2559.0	896.3	653.1	681.4	640.3
62.5°	2044.3	776.5	595.2	543.5	508.1
65°	1606.5	667.7	535.1	446.2	407.3
67.5°	1281.0	566.5	450.2	355.1	322.8
70°	997.2	476.2	346.7	266.6	201.2
72.5°	764.1	398.0	270.6	151.7	114.5
75°	574.4	321.0	187.0	92.4	84.0
77.5°	409.5	238.3	99.9	66.8	61.9
80°	283.0	153.0	58.4	48.2	45.5
82.5°	175.6	73.8	39.8	34.5	32.3
85°	88.9	31.0	25.2	22.1	20.3
87.5°	29.6	15.0	11.5	10.6	9.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)