

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: P565470

Luminaire Tested: **VHB-24-N-UNV-L950-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565470
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-24-N-UNV-L950-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 5000K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

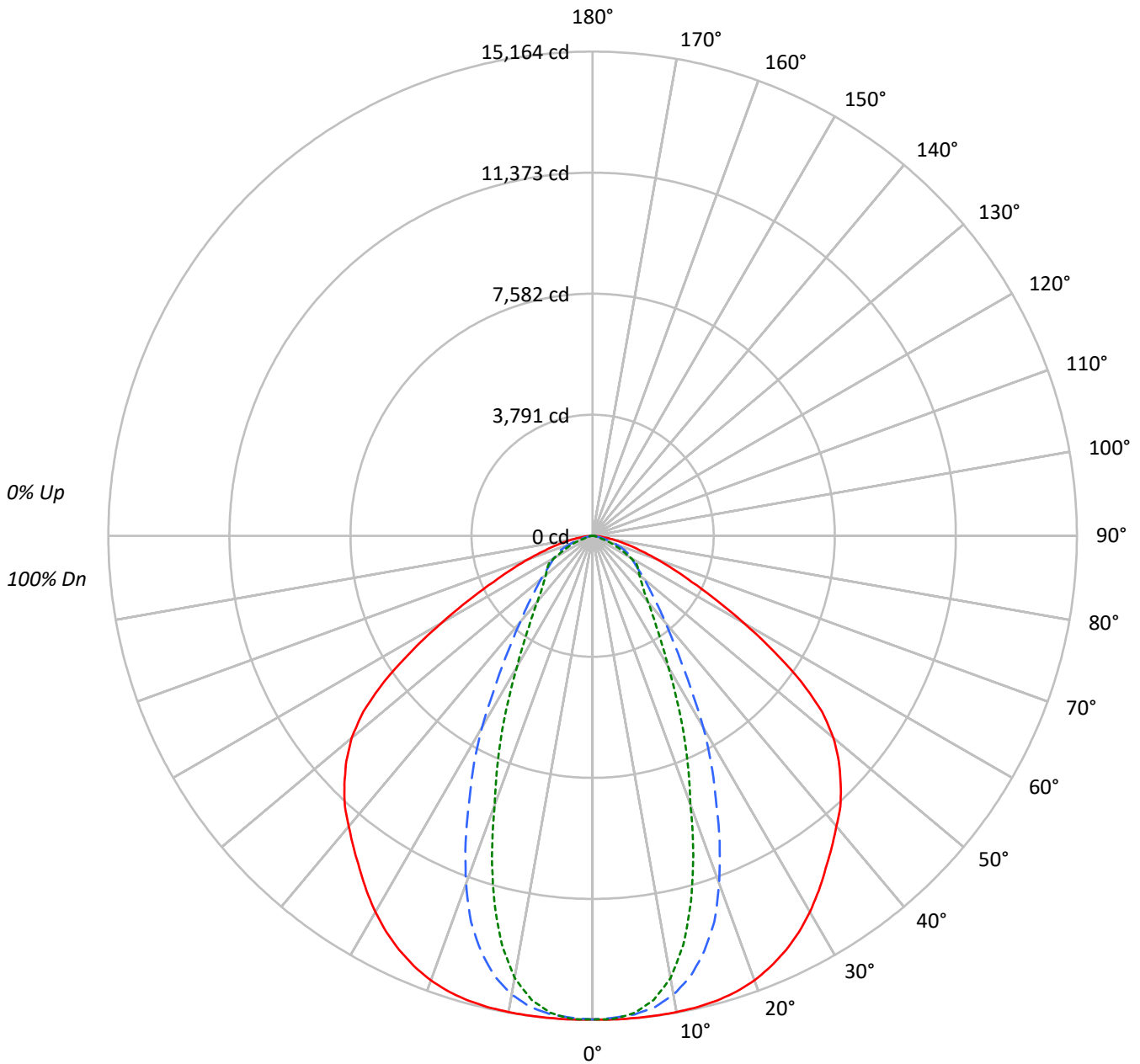
Lumens per Lamp: N/A
Luminaire Lumens: 21365.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 174.1
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									
RC	80									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																			
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°	93181	93181	93181
5°	93619	92908	92639
10°	94601	91126	87799
15°	95951	85857	75703
20°	96985	75850	58611
25°	97179	61938	45416
30°	96633	49192	33613
35°	95531	36452	26139
40°	95381	28307	21571
45°	95582	23296	19162
50°	94226	20148	18278
55°	85539	17961	18467
60°	67249	17164	16827
65°	49948	16635	12662
70°	38309	13319	7729
75°	29162	9496	4266
80°	21416	4417	3446
85°	13402	3797	3070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1423.3	6.7
10°-20°	3746.8	17.5
20°-30°	4524.7	21.2
30°-40°	4045.6	18.9
40°-50°	3168.0	14.8
50°-60°	2393.7	11.2
60°-70°	1421.7	6.7
70°-80°	546.3	2.6
80°-90°	94.9	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°	9694.8	45.4
0°-40°	13740.4	64.3
0°-60°	19302.1	90.3
0°-90°	21365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15150	15150	15150	15150	15150	
5°	15163	15097	15048	15028	15004	###
15°	15068	14571	13483	12356	11888	4258
25°	14319	12635	9126	7196	6692	6593
35°	12723	9054	4855	3785	3481	7978
45°	10988	4682	2678	2262	2203	8458
55°	7977	2540	1675	1668	1722	7005
65°	3432	1426	1143	953	870	3536
75°	1227	686	400	197	180	1343
85°	190	66	54	47	44	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15149.5	15149.5	15149.5	15149.5	15149.5
2.5°	15163.7	15113.6	15109.8	15141.9	15146.7
5°	15162.7	15096.6	15047.5	15027.6	15004.0
7.5°	15158.0	15057.9	14892.6	14733.8	14660.2
10°	15146.7	14969.1	14590.3	14229.4	14057.5
12.5°	15122.1	14810.4	14141.5	13478.4	13117.5
15°	15068.3	14571.4	13483.1	12356.1	11888.5
17.5°	14971.0	14241.7	12676.4	11085.6	10483.8
20°	14817.0	13822.3	11588.1	9636.5	8954.4
22.5°	14595.9	13274.4	10389.4	8331.9	7786.8
25°	14319.1	12634.8	9126.4	7195.5	6692.0
27.5°	13990.4	11888.5	8038.1	6137.5	5641.5
30°	13605.9	11016.6	6926.2	5138.0	4732.7
32.5°	13176.1	10098.4	5765.3	4375.7	4042.2
35°	12722.7	9053.6	4854.6	3785.2	3481.1
37.5°	12295.7	7935.1	4111.2	3262.9	3049.4
40°	11879.1	6760.0	3525.5	2850.0	2686.6
42.5°	11486.1	5635.8	3077.7	2504.3	2397.5
45°	10988.3	4681.7	2678.1	2262.5	2202.9
47.5°	10460.2	3951.5	2360.7	2066.0	2045.2
50°	9847.1	3365.8	2105.6	1895.0	1910.1
52.5°	9051.7	2902.9	1863.8	1774.1	1818.5
55°	7976.7	2540.2	1674.9	1668.3	1722.1
57.5°	6717.5	2193.5	1525.6	1567.2	1627.6
60°	5466.7	1914.8	1395.3	1455.7	1367.9
62.5°	4367.2	1658.8	1271.5	1161.0	1085.4
65°	3431.9	1426.4	1143.0	953.2	870.0
67.5°	2736.7	1210.1	961.7	758.6	689.6
70°	2130.2	1017.4	740.6	569.6	429.8
72.5°	1632.4	850.2	578.1	324.0	244.7
75°	1227.1	685.8	399.6	197.4	179.5
77.5°	874.8	509.2	213.5	142.6	132.3
80°	604.6	326.9	124.7	103.0	97.3
82.5°	375.0	157.8	85.0	73.7	69.0
85°	189.9	66.1	53.8	47.2	43.5
87.5°	63.3	32.1	24.6	22.7	20.8
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)