

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: P565468

Luminaire Tested: **VHB-24-N-UNV-L935-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565468
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-L935-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 3500K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

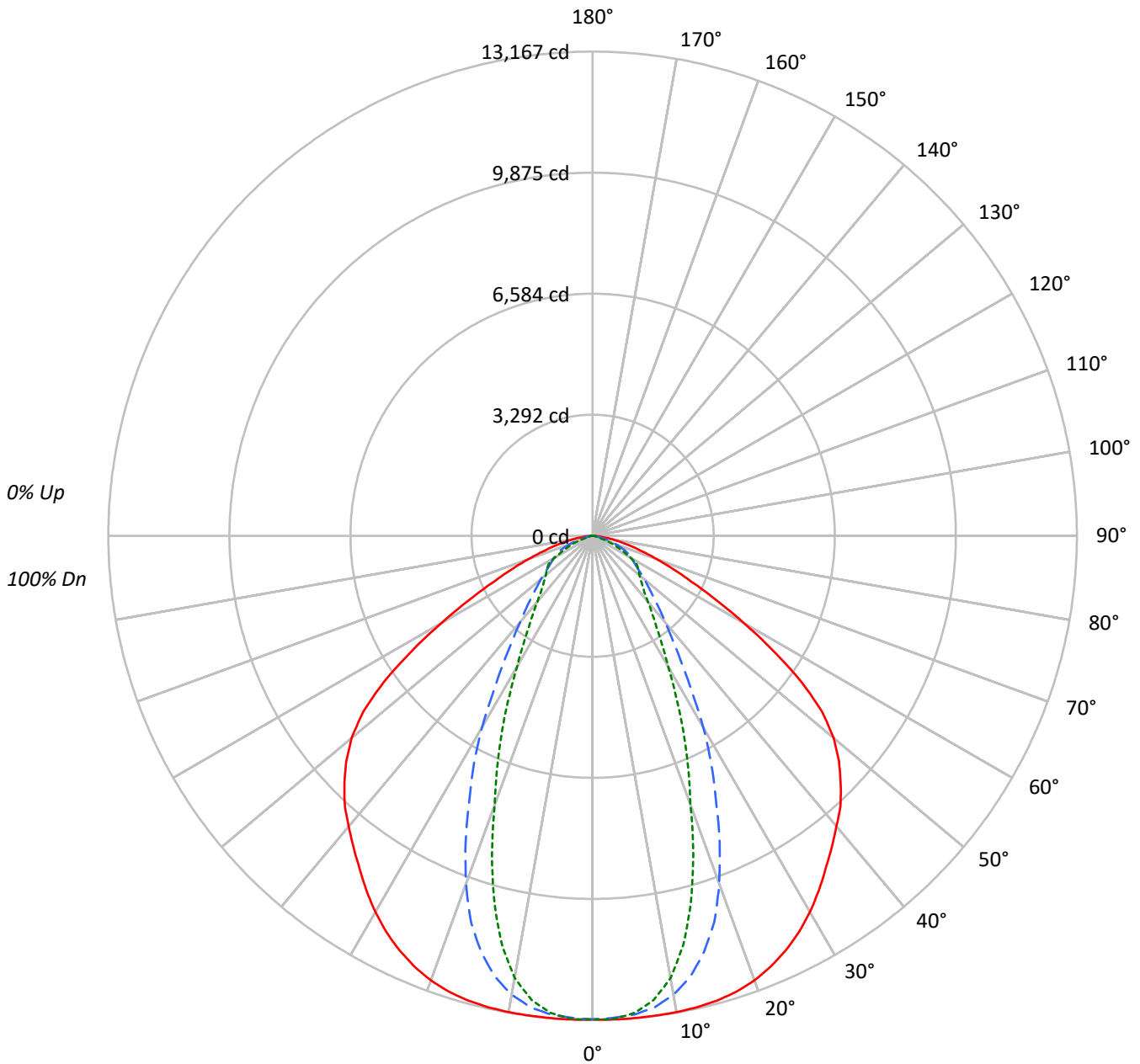
Lumens per Lamp: N/A
Luminaire Lumens: 18552.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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°	80913	80913	80913
5°	81293	80675	80442
10°	82146	79128	76238
15°	83318	74553	65736
20°	84216	65864	50894
25°	84384	53782	39437
30°	83910	42715	29188
35°	82953	31652	22697
40°	82822	24580	18732
45°	82997	20228	16639
50°	81820	17496	15871
55°	74277	15596	16036
60°	58396	14905	14612
65°	43372	14445	10996
70°	33264	11565	6712
75°	25321	8246	3705
80°	18596	3836	2993
85°	11637	3303	2661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1235.9	6.7
10°-20°	3253.5	17.5
20°-30°	3928.9	21.2
30°-40°	3513.0	18.9
40°-50°	2750.9	14.8
50°-60°	2078.5	11.2
60°-70°	1234.5	6.7
70°-80°	474.4	2.6
80°-90°	82.4	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°	8418.3	45.4
0°-40°	11931.3	64.3
0°-60°	16760.7	90.3
0°-90°	18552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13155	13155	13155	13155	13155	
5°	13166	13109	13066	13049	13028	###
15°	13084	12653	11708	10729	10323	3697
25°	12434	10971	7925	6248	5811	5725
35°	11048	7862	4215	3287	3023	6928
45°	9542	4065	2326	1965	1913	7345
55°	6926	2206	1454	1449	1495	6083
65°	2980	1239	992	828	756	3071
75°	1066	596	347	171	156	1166
85°	165	57	47	41	38	220
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13154.9	13154.9	13154.9	13154.9	13154.9
2.5°	13167.2	13123.7	13120.4	13148.3	13152.4
5°	13166.3	13108.9	13066.3	13049.0	13028.5
7.5°	13162.2	13075.3	12931.7	12793.9	12730.0
10°	13152.4	12998.2	12669.2	12355.9	12206.6
12.5°	13131.1	12860.4	12279.6	11703.8	11390.4
15°	13084.3	12652.8	11707.9	10729.3	10323.2
17.5°	12999.8	12366.6	11007.4	9626.0	9103.5
20°	12866.1	12002.4	10062.4	8367.7	7775.4
22.5°	12674.2	11526.6	9021.5	7234.9	6761.6
25°	12433.8	10971.3	7924.7	6248.1	5810.9
27.5°	12148.4	10323.2	6979.8	5329.4	4898.7
30°	11814.5	9566.1	6014.3	4461.5	4109.6
32.5°	11441.3	8768.8	5006.2	3799.5	3510.0
35°	11047.6	7861.6	4215.4	3286.9	3022.7
37.5°	10676.8	6890.4	3569.9	2833.3	2647.9
40°	10315.0	5869.9	3061.3	2474.8	2332.9
42.5°	9973.8	4893.8	2672.5	2174.6	2081.9
45°	9541.5	4065.3	2325.5	1964.6	1912.9
47.5°	9083.0	3431.2	2049.9	1794.0	1775.9
50°	8550.6	2922.7	1828.4	1645.5	1658.6
52.5°	7859.9	2520.7	1618.4	1540.5	1579.0
55°	6926.5	2205.7	1454.4	1448.6	1495.4
57.5°	5833.0	1904.7	1324.8	1360.8	1413.3
60°	4747.0	1662.7	1211.6	1264.1	1187.8
62.5°	3792.2	1440.4	1104.1	1008.1	942.5
65°	2980.1	1238.6	992.5	827.7	755.5
67.5°	2376.4	1050.8	835.0	658.7	598.8
70°	1849.7	883.4	643.1	494.6	373.2
72.5°	1417.4	738.3	502.0	281.4	212.5
75°	1065.5	595.5	347.0	171.4	155.9
77.5°	759.6	442.1	185.4	123.9	114.8
80°	525.0	283.8	108.3	89.4	84.5
82.5°	325.7	137.0	73.8	64.0	59.9
85°	164.9	57.4	46.8	41.0	37.7
87.5°	55.0	27.9	21.3	19.7	18.0
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)