

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: P565465

Luminaire Tested: **VHB-24-N-UNV-L735-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565465
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-L735-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 3500K,
70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

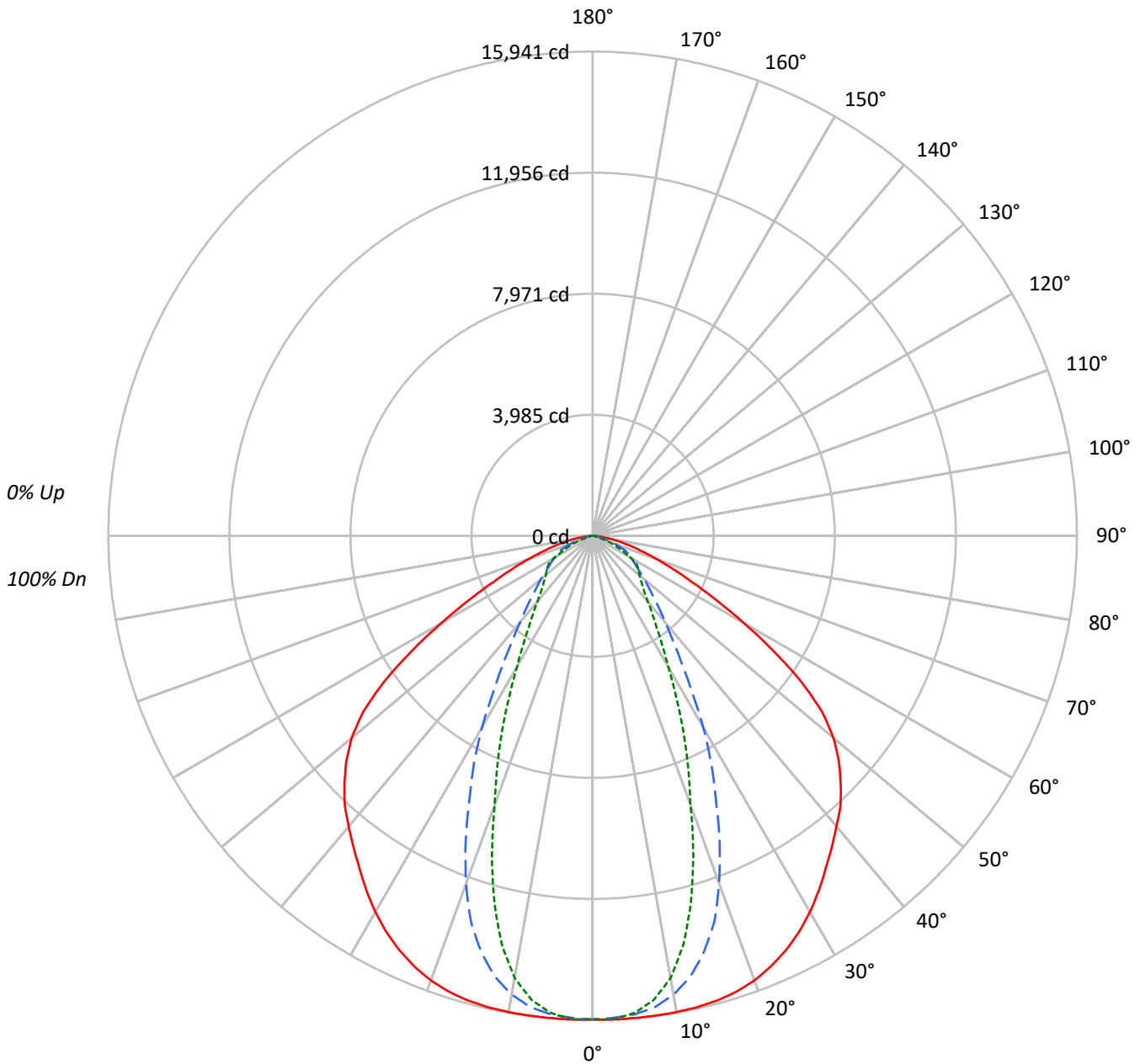
Lumens per Lamp: N/A
Luminaire Lumens: 22460.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	97957	97957	97957
5°	98417	97669	97387
10°	99450	95796	92298
15°	100869	90258	79583
20°	101956	79738	61616
25°	102159	65112	47743
30°	101587	51713	35336
35°	100427	38320	27478
40°	100269	29758	22677
45°	100480	24490	20145
50°	99056	21182	19214
55°	89923	18881	19414
60°	70696	18044	17690
65°	52508	17488	13311
70°	40273	14002	8125
75°	30657	9984	4484
80°	22514	4644	3624
85°	14086	3994	3225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1496.3	6.7
10°-20°	3938.8	17.5
20°-30°	4756.6	21.2
30°-40°	4253.0	18.9
40°-50°	3330.4	14.8
50°-60°	2516.3	11.2
60°-70°	1494.5	6.7
70°-80°	574.4	2.6
80°-90°	99.8	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°	10191.7	45.4
0°-40°	14444.6	64.3
0°-60°	20291.3	90.3
0°-90°	22460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15926	15926	15926	15926	15926	
5°	15940	15870	15819	15798	15773	###
15°	15840	15318	14174	12989	12498	4476
25°	15053	13282	9594	7564	7035	6931
35°	13375	9518	5103	3979	3660	8387
45°	11551	4922	2815	2378	2316	8892
55°	8386	2670	1761	1754	1810	7364
65°	3608	1500	1202	1002	915	3717
75°	1290	721	420	208	189	1412
85°	200	70	57	50	46	266
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15925.9	15925.9	15925.9	15925.9	15925.9
2.5°	15940.8	15888.2	15884.2	15918.0	15923.0
5°	15939.8	15870.3	15818.7	15797.8	15773.0
7.5°	15934.9	15829.6	15655.8	15489.0	15411.5
10°	15923.0	15736.3	15338.0	14958.7	14777.9
12.5°	15897.1	15569.4	14866.3	14169.2	13789.8
15°	15840.5	15318.2	14174.2	12989.4	12497.8
17.5°	15738.3	14971.6	13326.1	11653.7	11021.1
20°	15576.4	14530.7	12182.0	10130.4	9413.4
22.5°	15344.0	13954.7	10921.8	8758.9	8185.9
25°	15053.0	13282.4	9594.1	7564.3	7034.9
27.5°	14707.4	12497.8	8450.1	6452.0	5930.6
30°	14303.3	11581.2	7281.2	5401.3	4975.3
32.5°	13851.4	10616.0	6060.7	4599.9	4249.4
35°	13374.7	9517.6	5103.4	3979.3	3659.5
37.5°	12925.9	8341.8	4321.9	3430.1	3205.6
40°	12487.9	7106.4	3706.2	2996.1	2824.3
42.5°	12074.8	5924.7	3235.4	2632.6	2520.4
45°	11551.4	4921.7	2815.4	2378.4	2315.9
47.5°	10996.3	4154.0	2481.7	2171.9	2150.0
50°	10351.8	3538.3	2213.6	1992.1	2008.0
52.5°	9515.6	3051.7	1959.3	1865.0	1911.7
55°	8385.5	2670.4	1760.7	1753.8	1810.4
57.5°	7061.8	2305.9	1603.8	1647.5	1711.1
60°	5746.9	2013.0	1466.8	1530.3	1438.0
62.5°	4591.0	1743.8	1336.7	1220.5	1141.0
65°	3607.8	1499.5	1201.6	1002.0	914.6
67.5°	2876.9	1272.1	1011.0	797.4	724.9
70°	2239.4	1069.5	778.6	598.8	451.8
72.5°	1716.0	893.8	607.8	340.6	257.2
75°	1290.0	721.0	420.1	207.6	188.7
77.5°	919.6	535.3	224.4	150.0	139.0
80°	635.6	343.6	131.1	108.2	102.3
82.5°	394.3	165.8	89.4	77.5	72.5
85°	199.6	69.5	56.6	49.7	45.7
87.5°	66.5	33.8	25.8	23.8	21.8
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)