

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: P565456

Luminaire Tested: **VHB-18-N-UNV-L935-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565456
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-18-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

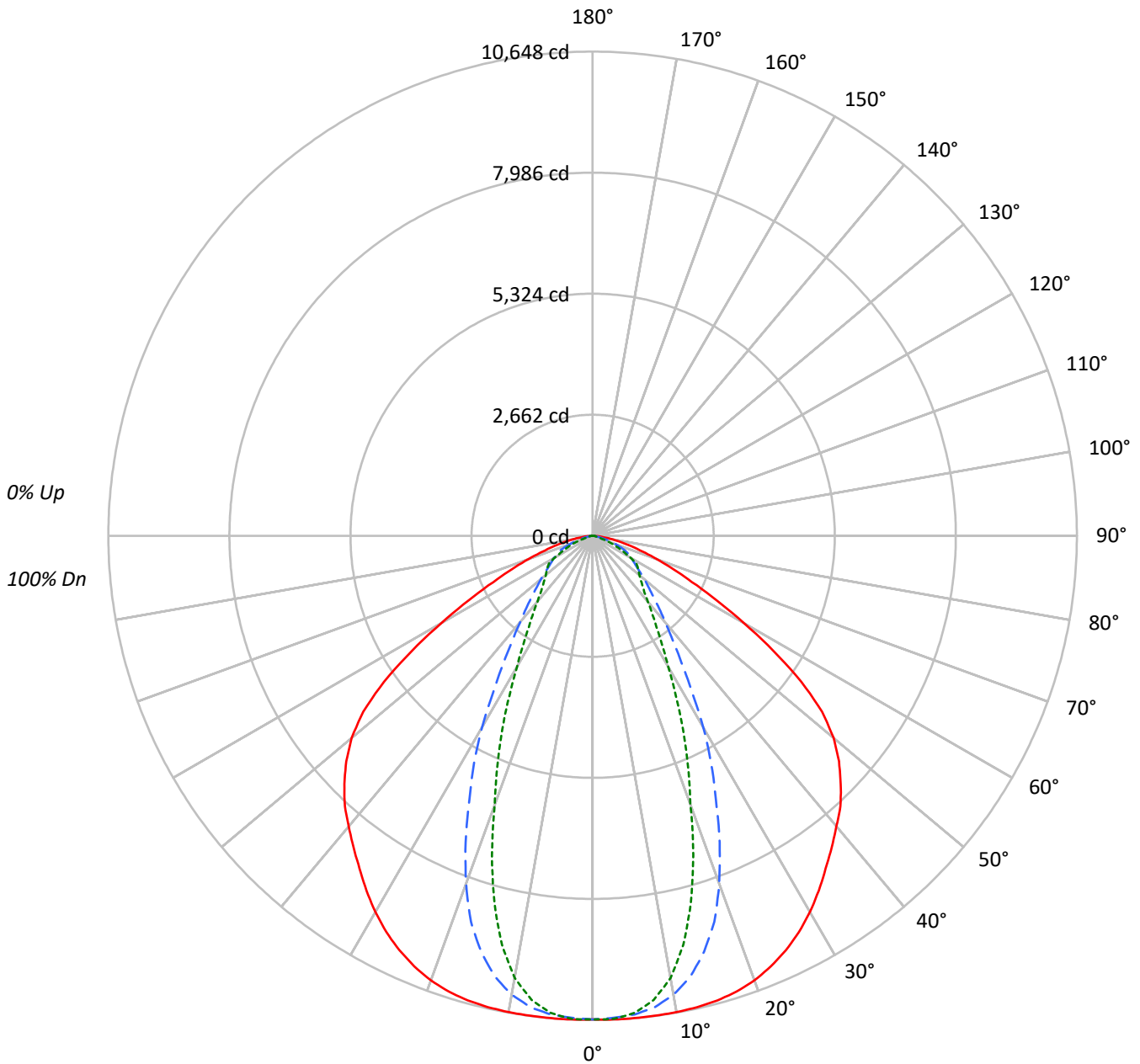
Lumens per Lamp: N/A
Luminaire Lumens: 15003.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 133.8
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								
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°	65434	65434	65434
5°	65741	65242	65054
10°	66431	63991	61654
15°	67379	60291	53161
20°	68105	53264	41158
25°	68241	43494	31892
30°	67858	34544	23604
35°	67084	25597	18355
40°	66979	19878	15148
45°	67120	16358	13457
50°	66168	14149	12835
55°	60067	12612	12968
60°	47225	12053	11816
65°	35075	11683	8893
70°	26902	9353	5427
75°	20478	6668	2994
80°	15040	3103	2419
85°	9407	2668	2152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.5	6.7
10°-20°	2631.1	17.5
20°-30°	3177.3	21.2
30°-40°	2840.9	18.9
40°-50°	2224.6	14.8
50°-60°	1680.9	11.2
60°-70°	998.3	6.7
70°-80°	383.7	2.6
80°-90°	66.7	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°	6807.9	45.4
0°-40°	9648.8	64.3
0°-60°	13554.4	90.3
0°-90°	15003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10638	10638	10638	10638	10638	
5°	10648	10601	10567	10553	10536	###
15°	10581	10232	9468	8677	8348	2990
25°	10055	8872	6409	5053	4699	4630
35°	8934	6358	3409	2658	2444	5603
45°	7716	3288	1881	1589	1547	5940
55°	5601	1784	1176	1172	1209	4919
65°	2410	1002	803	669	611	2483
75°	862	482	281	139	126	943
85°	133	46	38	33	30	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10638.3	10638.3	10638.3	10638.3	10638.3
2.5°	10648.3	10613.1	10610.5	10633.0	10636.3
5°	10647.6	10601.2	10566.7	10552.8	10536.2
7.5°	10644.3	10574.0	10457.9	10346.5	10294.7
10°	10636.3	10511.6	10245.6	9992.2	9871.5
12.5°	10619.1	10400.2	9930.5	9464.8	9211.4
15°	10581.3	10232.4	9468.2	8676.8	8348.4
17.5°	10513.0	10000.8	8901.6	7784.5	7362.0
20°	10404.8	9706.3	8137.5	6767.0	6288.0
22.5°	10249.6	9321.6	7295.7	5850.8	5468.1
25°	10055.2	8872.5	6408.7	5052.8	4699.3
27.5°	9824.4	8348.4	5644.5	4309.9	3961.6
30°	9554.4	7736.1	4863.8	3608.0	3323.4
32.5°	9252.6	7091.3	4048.5	3072.7	2838.5
35°	8934.2	6357.7	3409.0	2658.1	2444.5
37.5°	8634.3	5572.2	2886.9	2291.3	2141.3
40°	8341.8	4747.0	2475.7	2001.4	1886.6
42.5°	8065.8	3957.6	2161.2	1758.6	1683.6
45°	7716.2	3287.6	1880.6	1588.8	1547.0
47.5°	7345.4	2774.8	1657.7	1450.8	1436.2
50°	6914.9	2363.6	1478.6	1330.7	1341.3
52.5°	6356.3	2038.5	1308.8	1245.8	1277.0
55°	5601.4	1783.8	1176.1	1171.5	1209.3
57.5°	4717.2	1540.3	1071.3	1100.5	1143.0
60°	3838.9	1344.6	979.8	1022.2	960.5
62.5°	3066.7	1164.9	892.9	815.3	762.2
65°	2410.0	1001.7	802.7	669.3	611.0
67.5°	1921.8	849.8	675.3	532.7	484.3
70°	1495.9	714.4	520.1	400.0	301.8
72.5°	1146.3	597.0	406.0	227.5	171.8
75°	861.7	481.6	280.6	138.6	126.0
77.5°	614.3	357.6	149.9	100.2	92.9
80°	424.6	229.5	87.6	72.3	68.3
82.5°	263.4	110.8	59.7	51.7	48.4
85°	133.3	46.4	37.8	33.2	30.5
87.5°	44.4	22.6	17.2	15.9	14.6
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)