

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: P565438

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

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-W-UNV-L935-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

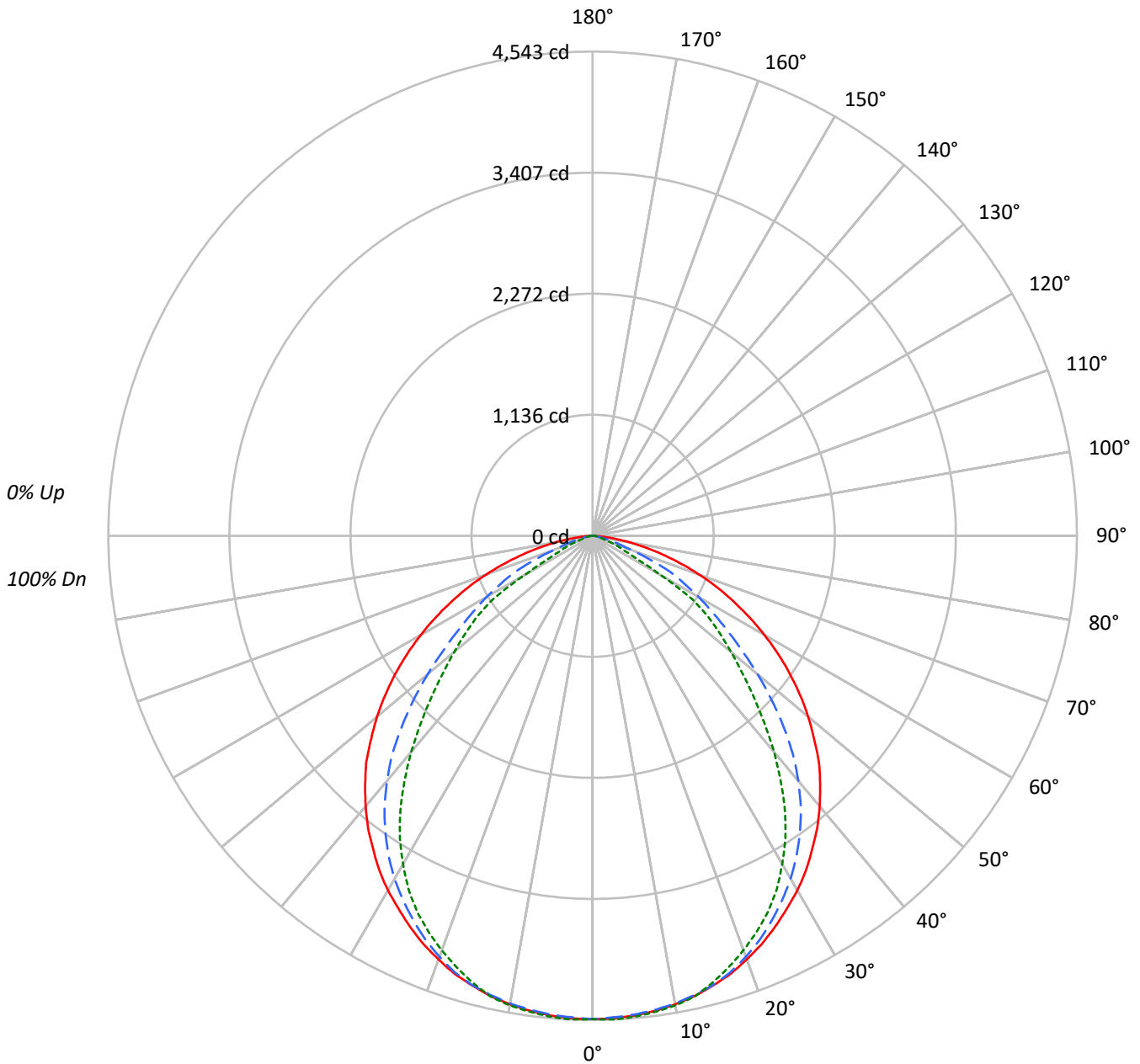
Lumens per Lamp: N/A
Luminaire Lumens: 10200.0 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75				
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65				65				
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57				57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50				50				
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44				44				
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	39				39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36				36				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32				32				
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29				29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27893	27893	27893
5°	27897	27841	27968
10°	27888	27827	27942
15°	27821	27792	27649
20°	27687	27515	27085
25°	27482	27014	26422
30°	27282	26392	25263
35°	26957	25467	23622
40°	26602	24097	21254
45°	26118	22039	18570
50°	25255	19295	16223
55°	24223	16437	14160
60°	22885	14098	9040
65°	21205	11758	4793
70°	19138	6683	3106
75°	16079	4092	1932
80°	12220	2065	1693
85°	7424	1877	1524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.3	4.2
10°-20°	1228.3	12.0
20°-30°	1831.1	18.0
30°-40°	2108.8	20.7
40°-50°	1962.5	19.2
50°-60°	1493.3	14.6
60°-70°	801.6	7.9
70°-80°	294.9	2.9
80°-90°	50.1	0.5
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°	3488.7	34.2
0°-40°	5597.5	54.9
0°-60°	9053.4	88.8
0°-90°	10200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4535	4535	4535	4535	4535	
5°	4518	4506	4509	4525	4530	430
15°	4369	4362	4364	4356	4342	1233
25°	4049	4046	3980	3924	3893	1867
35°	3590	3546	3392	3221	3146	2247
45°	3003	2858	2534	2233	2135	2307
55°	2259	2004	1533	1365	1320	2018
65°	1457	1070	808	400	329	1445
75°	677	443	172	89	81	725
85°	105	34	27	23	22	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4534.9	4534.9	4534.9	4534.9	4534.9
2.5°	4531.7	4517.9	4522.5	4537.2	4543.1
5°	4518.3	4505.5	4509.2	4524.8	4529.8
7.5°	4496.3	4483.9	4486.7	4501.3	4506.4
10°	4465.1	4452.2	4455.4	4469.7	4473.8
12.5°	4422.8	4410.9	4413.6	4423.7	4428.3
15°	4369.1	4362.2	4364.5	4356.2	4342.0
17.5°	4308.9	4298.8	4296.0	4259.3	4244.1
20°	4229.9	4226.2	4203.7	4158.2	4138.0
22.5°	4146.8	4139.9	4100.8	4046.2	4021.8
25°	4049.4	4046.2	3980.5	3924.0	3893.2
27.5°	3944.7	3936.8	3852.3	3781.6	3739.8
30°	3841.3	3822.0	3715.9	3616.7	3557.0
32.5°	3724.2	3687.9	3561.1	3434.3	3365.4
35°	3590.1	3546.4	3391.6	3221.2	3145.9
37.5°	3460.1	3394.4	3207.9	2994.8	2898.3
40°	3313.1	3218.9	3001.2	2753.6	2647.1
42.5°	3158.3	3043.5	2781.2	2493.2	2383.9
45°	3002.6	2857.9	2533.6	2232.8	2134.9
47.5°	2817.5	2664.1	2276.4	1984.3	1900.2
50°	2639.3	2460.1	2016.4	1752.8	1695.4
52.5°	2452.8	2235.5	1763.8	1557.1	1501.5
55°	2258.9	2003.6	1532.8	1364.6	1320.5
57.5°	2064.2	1765.2	1327.9	1189.6	1110.6
60°	1860.3	1528.6	1146.0	966.9	734.9
62.5°	1659.5	1282.4	964.6	606.3	467.6
65°	1457.0	1070.2	807.9	400.1	329.3
67.5°	1263.6	864.9	576.4	289.8	246.7
70°	1064.2	707.4	371.6	207.6	172.7
72.5°	864.4	569.1	254.9	136.4	110.7
75°	676.6	443.2	172.2	89.1	81.3
77.5°	507.1	305.9	96.0	66.1	62.0
80°	345.0	183.3	58.3	50.5	47.8
82.5°	206.7	87.7	42.3	37.2	35.8
85°	105.2	34.0	26.6	23.0	21.6
87.5°	31.2	17.0	11.9	9.2	8.7
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)