

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: P565462

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

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565462
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-18-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

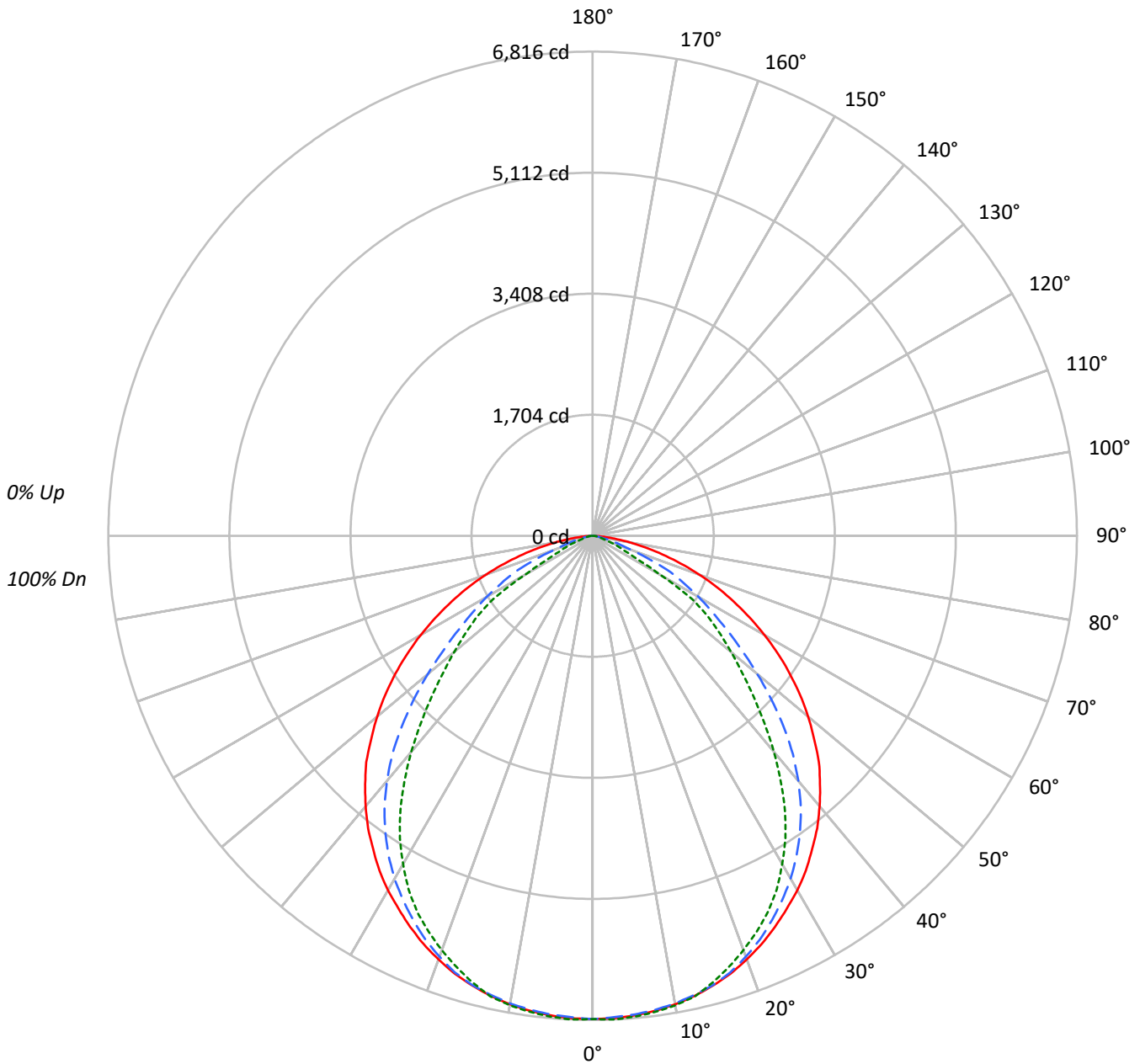
Lumens per Lamp: N/A
Luminaire Lumens: 15302.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41845	41845	41845
5°	41852	41767	41958
10°	41837	41746	41918
15°	41738	41694	41478
20°	41536	41279	40633
25°	41228	40526	39638
30°	40929	39593	37899
35°	40441	38205	35437
40°	39908	36151	31885
45°	39183	33062	27860
50°	37887	28946	24338
55°	36341	24658	21244
60°	34330	21149	13562
65°	31811	17641	7191
70°	28713	10026	4660
75°	24121	6141	2899
80°	18330	3099	2540
85°	11136	2823	2287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.1	4.2
10°-20°	1842.8	12.0
20°-30°	2746.9	18.0
30°-40°	3163.6	20.7
40°-50°	2944.2	19.2
50°-60°	2240.3	14.6
60°-70°	1202.6	7.9
70°-80°	442.4	2.9
80°-90°	75.2	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°	5233.8	34.2
0°-40°	8397.3	54.9
0°-60°	13581.8	88.8
0°-90°	15302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6803	6803	6803	6803	6803	
5°	6778	6759	6765	6788	6796	645
15°	6554	6544	6548	6535	6514	1850
25°	6075	6070	5972	5887	5841	2800
35°	5386	5320	5088	4832	4720	3372
45°	4504	4287	3801	3350	3203	3462
55°	3389	3006	2299	2047	1981	3027
65°	2186	1606	1212	600	494	2167
75°	1015	665	258	134	122	1088
85°	158	51	40	34	32	210
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6803.2	6803.2	6803.2	6803.2	6803.2
2.5°	6798.4	6777.7	6784.6	6806.7	6815.6
5°	6778.4	6759.1	6764.6	6788.0	6795.6
7.5°	6745.3	6726.7	6730.9	6752.9	6760.5
10°	6698.5	6679.2	6684.0	6705.4	6711.6
12.5°	6635.1	6617.2	6621.3	6636.5	6643.3
15°	6554.5	6544.1	6547.6	6535.2	6513.8
17.5°	6464.2	6449.0	6444.9	6389.8	6367.0
20°	6345.7	6340.2	6306.4	6238.2	6207.8
22.5°	6220.9	6210.6	6152.0	6070.0	6033.5
25°	6074.9	6070.0	5971.5	5886.7	5840.6
27.5°	5917.7	5906.0	5779.2	5673.1	5610.4
30°	5762.7	5733.8	5574.6	5425.8	5336.2
32.5°	5587.0	5532.6	5342.4	5152.2	5048.8
35°	5385.8	5320.3	5088.1	4832.5	4719.5
37.5°	5190.8	5092.2	4812.5	4492.7	4348.0
40°	4970.3	4829.0	4502.4	4131.0	3971.1
42.5°	4738.1	4565.8	4172.3	3740.3	3576.3
45°	4504.5	4287.4	3800.9	3349.6	3202.8
47.5°	4226.8	3996.6	3415.0	2976.8	2850.7
50°	3959.4	3690.7	3025.0	2629.5	2543.4
52.5°	3679.6	3353.7	2646.0	2336.0	2252.6
55°	3388.9	3005.7	2299.4	2047.2	1981.1
57.5°	3096.7	2648.1	1992.1	1784.7	1666.2
60°	2790.7	2293.2	1719.2	1450.5	1102.5
62.5°	2489.6	1923.9	1447.1	909.6	701.5
65°	2185.7	1605.5	1212.1	600.2	494.1
67.5°	1895.6	1297.5	864.8	434.8	370.0
70°	1596.6	1061.2	557.5	311.5	259.1
72.5°	1296.8	853.8	382.4	204.7	166.1
75°	1015.0	665.0	258.4	133.7	122.0
77.5°	760.7	458.9	144.0	99.2	93.0
80°	517.5	274.9	87.5	75.8	71.7
82.5°	310.1	131.6	63.4	55.8	53.7
85°	157.8	51.0	40.0	34.5	32.4
87.5°	46.9	25.5	17.9	13.8	13.1
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)