

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: P565452

Luminaire Tested: **VHB-15-W-UNV-L950-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565452  
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-15-W-UNV-L950-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 5000K, 90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

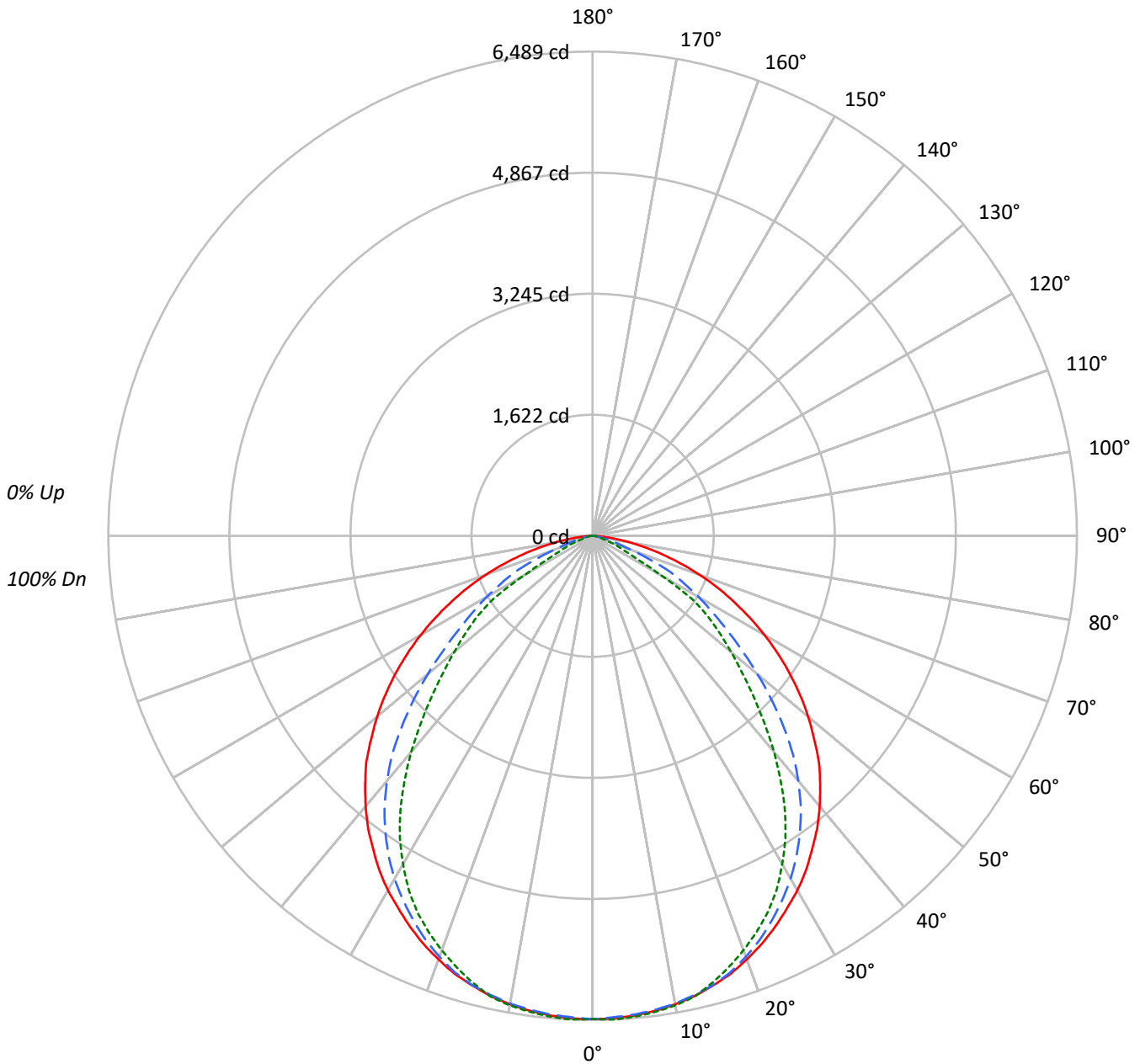
Lumens per Lamp: N/A  
Luminaire Lumens: 14569.0 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 111.6  
Input Voltage (V): NR  
Input Current (Ain): 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°	39841	39841	39841
5°	39847	39766	39948
10°	39832	39746	39910
15°	39738	39696	39492
20°	39546	39301	38687
25°	39253	38585	37739
30°	38968	37696	36084
35°	38503	36375	33740
40°	37996	34419	30358
45°	37305	31478	26525
50°	36072	27559	23171
55°	34600	23477	20227
60°	32687	20136	12913
65°	30287	16795	6846
70°	27337	9546	4437
75°	22966	5846	2759
80°	17452	2951	2416
85°	10600	2689	2174



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	613.2	4.2
10°-20°	1754.5	12.0
20°-30°	2615.4	18.0
30°-40°	3012.0	20.7
40°-50°	2803.1	19.2
50°-60°	2133.0	14.6
60°-70°	1144.9	7.9
70°-80°	421.2	2.9
80°-90°	71.6	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°	4983.1	34.2
0°-40°	7995.1	54.9
0°-60°	12931.2	88.8
0°-90°	14569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14569.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6477	6477	6477	6477	6477	
5°	6454	6435	6441	6463	6470	614
15°	6240	6231	6234	6222	6202	1761
25°	5784	5779	5685	5605	5561	2666
35°	5128	5066	4844	4601	4493	3210
45°	4289	4082	3619	3189	3049	3296
55°	3226	2862	2189	1949	1886	2882
65°	2081	1529	1154	571	470	2064
75°	966	633	246	127	116	1036
85°	150	48	38	33	31	200
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6477.3	6477.3	6477.3	6477.3	6477.3
2.5°	6472.7	6453.0	6459.6	6480.6	6489.1
5°	6453.7	6435.3	6440.6	6462.9	6470.1
7.5°	6422.2	6404.5	6408.4	6429.4	6436.6
10°	6377.6	6359.2	6363.8	6384.2	6390.1
12.5°	6317.2	6300.2	6304.1	6318.6	6325.1
15°	6240.5	6230.6	6233.9	6222.1	6201.8
17.5°	6154.5	6140.1	6136.2	6083.7	6062.0
20°	6041.7	6036.4	6004.3	5939.3	5910.5
22.5°	5922.9	5913.1	5857.3	5779.3	5744.5
25°	5783.9	5779.3	5685.4	5604.8	5560.8
27.5°	5634.3	5623.1	5502.4	5401.4	5341.7
30°	5486.7	5459.1	5307.6	5165.8	5080.6
32.5°	5319.4	5267.5	5086.5	4905.4	4807.0
35°	5127.8	5065.5	4844.4	4601.0	4493.4
37.5°	4942.1	4848.3	4582.0	4277.5	4139.8
40°	4732.2	4597.7	4286.7	3933.1	3780.9
42.5°	4511.1	4347.1	3972.5	3561.1	3405.0
45°	4288.7	4082.0	3618.8	3189.1	3049.4
47.5°	4024.3	3805.2	3251.5	2834.2	2714.1
50°	3769.7	3513.9	2880.1	2503.5	2421.5
52.5°	3503.4	3193.1	2519.3	2224.1	2144.7
55°	3226.5	2861.8	2189.3	1949.2	1886.2
57.5°	2948.4	2521.3	1896.7	1699.2	1586.4
60°	2657.1	2183.4	1636.9	1381.0	1049.7
62.5°	2370.4	1831.7	1377.7	866.0	667.9
65°	2081.0	1528.6	1154.0	571.4	470.4
67.5°	1804.8	1235.4	823.4	414.0	352.3
70°	1520.1	1010.3	530.8	296.5	246.7
72.5°	1234.7	812.9	364.1	194.9	158.1
75°	966.4	633.1	246.0	127.3	116.1
77.5°	724.3	436.9	137.1	94.5	88.6
80°	492.7	261.8	83.3	72.2	68.2
82.5°	295.2	125.3	60.4	53.1	51.2
85°	150.2	48.5	38.1	32.8	30.8
87.5°	44.6	24.3	17.1	13.1	12.5
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)