

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: P565446

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

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565446  
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-15-N-UNV-L950-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 5000K,  
90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

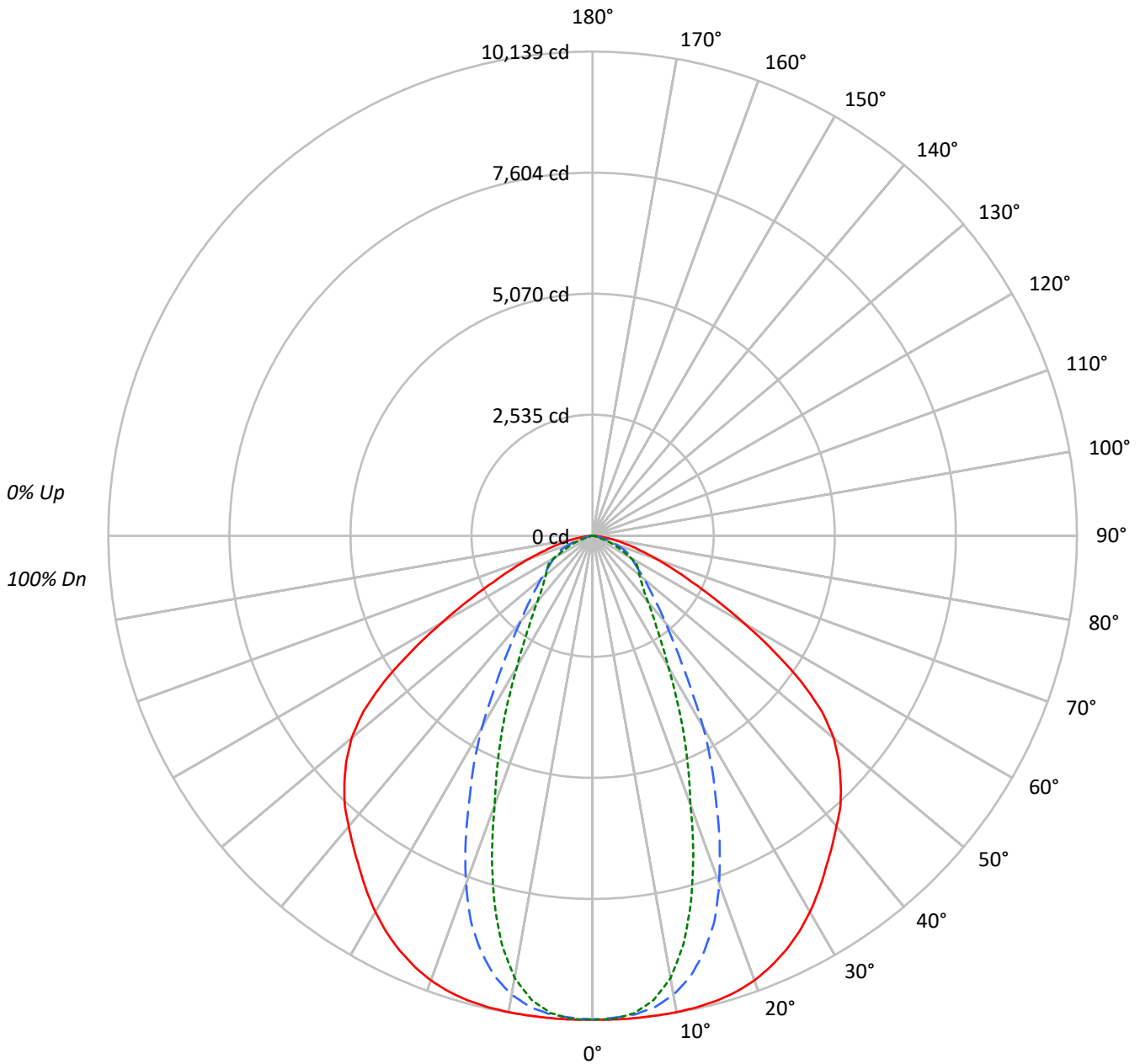
Lumens per Lamp: N/A  
Luminaire Lumens: 14286.0 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 111.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	62307	62307	62307
5°	62600	62124	61944
10°	63256	60933	58707
15°	64159	57410	50620
20°	64851	50719	39191
25°	64980	41416	30368
30°	64616	32893	22476
35°	63878	24374	17478
40°	63777	18928	14424
45°	63912	15577	12813
50°	63006	13473	12221
55°	57196	12009	12348
60°	44967	11477	11251
65°	33399	11124	8468
70°	25616	8906	5169
75°	19499	6350	2852
80°	14321	2954	2306
85°	8963	2541	2054



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	951.7	6.7
10°-20°	2505.4	17.5
20°-30°	3025.5	21.2
30°-40°	2705.2	18.9
40°-50°	2118.3	14.8
50°-60°	1600.5	11.2
60°-70°	950.6	6.7
70°-80°	365.3	2.6
80°-90°	63.5	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°	6482.6	45.4
0°-40°	9187.7	64.3
0°-60°	12906.6	90.3
0°-90°	14286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14286.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10130	10130	10130	10130	10130	
5°	10139	10094	10062	10048	10033	967
15°	10076	9743	9016	8262	7949	2847
25°	9575	8448	6102	4811	4475	4408
35°	8507	6054	3246	2531	2328	5335
45°	7348	3130	1791	1513	1473	5656
55°	5334	1698	1120	1116	1152	4684
65°	2295	954	764	637	582	2364
75°	820	459	267	132	120	898
85°	127	44	36	32	29	169
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10129.9	10129.9	10129.9	10129.9	10129.9
2.5°	10139.4	10105.9	10103.4	10124.9	10128.0
5°	10138.8	10094.5	10061.7	10048.4	10032.6
7.5°	10135.6	10068.6	9958.1	9852.0	9802.7
10°	10128.0	10009.3	9756.0	9514.7	9399.7
12.5°	10111.6	9903.2	9455.9	9012.5	8771.2
15°	10075.6	9743.3	9015.7	8262.1	7949.4
17.5°	10010.5	9522.9	8476.2	7412.5	7010.2
20°	9907.6	9242.4	7748.6	6443.6	5987.5
22.5°	9759.8	8876.1	6947.0	5571.2	5206.8
25°	9574.7	8448.4	6102.5	4811.3	4474.7
27.5°	9354.9	7949.4	5374.8	4103.9	3772.3
30°	9097.8	7366.4	4631.3	3435.6	3164.6
32.5°	8810.4	6752.4	3855.0	2925.8	2702.9
35°	8507.2	6053.8	3246.1	2531.1	2327.7
37.5°	8221.7	5305.9	2749.0	2181.8	2039.0
40°	7943.1	4520.2	2357.4	1905.7	1796.4
42.5°	7680.3	3768.5	2057.9	1674.5	1603.2
45°	7347.5	3130.5	1790.8	1512.8	1473.0
47.5°	6994.4	2642.2	1578.5	1381.4	1367.5
50°	6584.4	2250.6	1408.0	1267.1	1277.2
52.5°	6052.6	1941.1	1246.3	1186.3	1215.9
55°	5333.7	1698.5	1119.9	1115.5	1151.5
57.5°	4491.7	1466.7	1020.1	1047.9	1088.3
60°	3655.4	1280.4	933.0	973.4	914.6
62.5°	2920.2	1109.2	850.2	776.3	725.8
65°	2294.8	953.8	764.3	637.3	581.8
67.5°	1829.9	809.2	643.0	507.2	461.1
70°	1424.4	680.3	495.2	380.9	287.4
72.5°	1091.5	568.5	386.6	216.7	163.6
75°	820.5	458.6	267.2	132.0	120.0
77.5°	584.9	340.5	142.8	95.4	88.4
80°	404.3	218.6	83.4	68.9	65.1
82.5°	250.8	105.5	56.8	49.3	46.1
85°	127.0	44.2	36.0	31.6	29.1
87.5°	42.3	21.5	16.4	15.2	13.9
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)