

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: P565451

Luminaire Tested: **VHB-15-W-UNV-L940-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565451  
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-L940-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

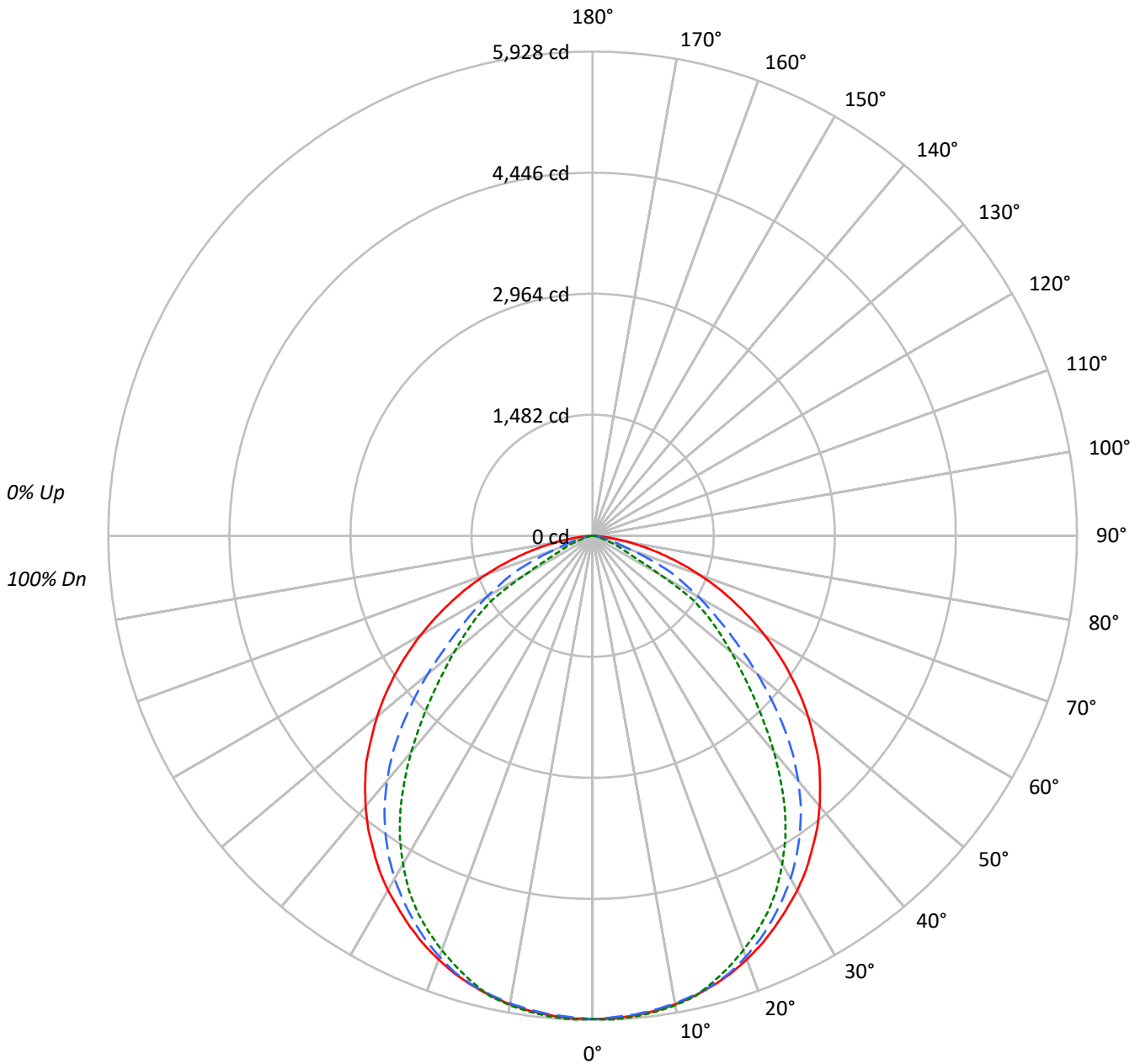
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13308.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 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): 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									
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°	36392	36392	36392
5°	36398	36324	36491
10°	36385	36306	36456
15°	36298	36261	36073
20°	36123	35900	35339
25°	35855	35246	34473
30°	35595	34433	32960
35°	35171	33227	30820
40°	34707	31440	27730
45°	34076	28754	24229
50°	32951	25174	21166
55°	31606	21445	18476
60°	29857	18393	11795
65°	27666	15341	6254
70°	24970	8719	4052
75°	20977	5340	2521
80°	15943	2696	2207
85°	9683	2456	1990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.2	4.2
10°-20°	1602.6	12.0
20°-30°	2389.0	18.0
30°-40°	2751.3	20.7
40°-50°	2560.5	19.2
50°-60°	1948.4	14.6
60°-70°	1045.8	7.9
70°-80°	384.8	2.9
80°-90°	65.4	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°	4551.8	34.2
0°-40°	7303.1	54.9
0°-60°	11812.0	88.8
0°-90°	13308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5917	5917	5917	5917	5917	
5°	5895	5878	5883	5904	5910	561
15°	5700	5691	5694	5684	5665	1609
25°	5283	5279	5193	5120	5080	2435
35°	4684	4627	4425	4203	4104	2932
45°	3918	3729	3306	2913	2785	3010
55°	2947	2614	2000	1780	1723	2633
65°	1901	1396	1054	522	430	1885
75°	883	578	225	116	106	946
85°	137	44	35	30	28	183
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5916.7	5916.7	5916.7	5916.7	5916.7
2.5°	5912.5	5894.5	5900.5	5919.7	5927.5
5°	5895.1	5878.3	5883.1	5903.5	5910.1
7.5°	5866.3	5850.2	5853.8	5872.9	5879.5
10°	5825.6	5808.8	5813.0	5831.6	5837.0
12.5°	5770.5	5754.9	5758.5	5771.7	5777.7
15°	5700.3	5691.4	5694.4	5683.6	5665.0
17.5°	5621.8	5608.7	5605.1	5557.1	5537.3
20°	5518.8	5514.0	5484.6	5425.3	5398.9
22.5°	5410.3	5401.3	5350.4	5279.1	5247.3
25°	5283.2	5279.1	5193.4	5119.6	5079.5
27.5°	5146.6	5136.4	5026.2	4933.9	4879.3
30°	5011.8	4986.6	4848.2	4718.7	4640.8
32.5°	4859.0	4811.6	4646.2	4480.8	4390.9
35°	4684.0	4627.0	4425.1	4202.7	4104.5
37.5°	4514.4	4428.7	4185.4	3907.3	3781.5
40°	4322.6	4199.7	3915.7	3592.7	3453.6
42.5°	4120.6	3970.8	3628.6	3252.9	3110.3
45°	3917.5	3728.7	3305.6	2913.1	2785.4
47.5°	3676.0	3475.8	2970.0	2588.9	2479.2
50°	3443.5	3209.7	2630.8	2286.8	2211.9
52.5°	3200.2	2916.7	2301.2	2031.6	1959.0
55°	2947.3	2614.1	1999.8	1780.5	1722.9
57.5°	2693.2	2303.0	1732.5	1552.1	1449.1
60°	2427.1	1994.4	1495.2	1261.5	958.8
62.5°	2165.2	1673.2	1258.5	791.0	610.1
65°	1900.9	1396.3	1054.1	522.0	429.7
67.5°	1648.6	1128.4	752.1	378.1	321.8
70°	1388.5	922.9	484.8	270.9	225.3
72.5°	1127.8	742.5	332.6	178.0	144.4
75°	882.7	578.3	224.7	116.3	106.1
77.5°	661.6	399.1	125.2	86.3	80.9
80°	450.1	239.1	76.1	65.9	62.3
82.5°	269.7	114.5	55.1	48.5	46.7
85°	137.2	44.3	34.8	30.0	28.2
87.5°	40.8	22.2	15.6	12.0	11.4
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)