

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: P565450

Luminaire Tested: **VHB-15-W-UNV-L935-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565450  
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-L935-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

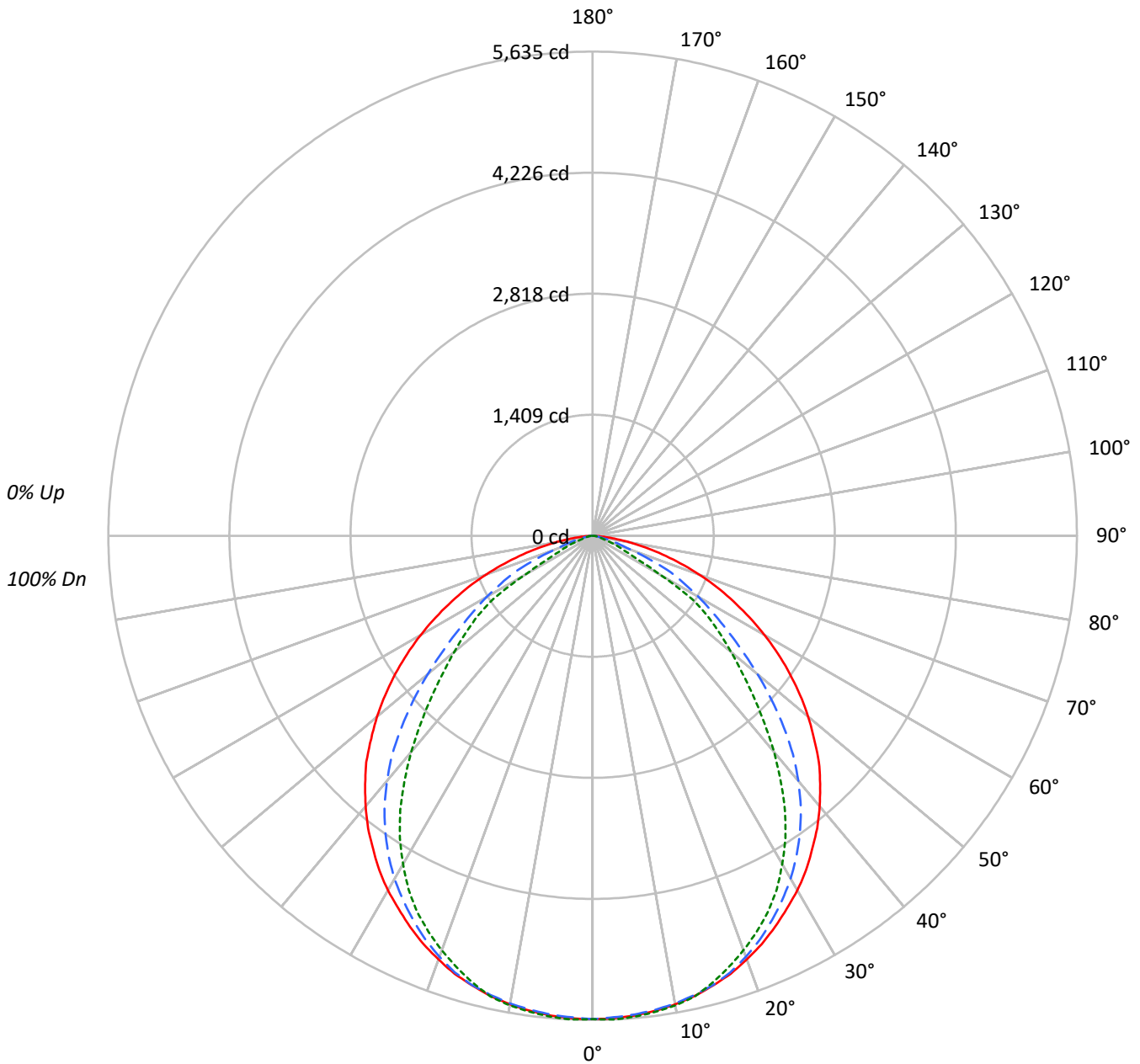
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12652.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 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): 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	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°	34598	34598	34598
5°	34604	34533	34692
10°	34591	34517	34659
15°	34509	34473	34295
20°	34342	34130	33597
25°	34088	33508	32773
30°	33840	32736	31336
35°	33437	31588	29300
40°	32996	29891	26363
45°	32397	27337	23035
50°	31326	23934	20123
55°	30047	20388	17565
60°	28385	17487	11214
65°	26302	14586	5945
70°	23740	8289	3852
75°	19943	5079	2395
80°	15157	2564	2100
85°	9210	2329	1891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.5	4.2
10°-20°	1523.6	12.0
20°-30°	2271.2	18.0
30°-40°	2615.7	20.7
40°-50°	2434.3	19.2
50°-60°	1852.3	14.6
60°-70°	994.3	7.9
70°-80°	365.8	2.9
80°-90°	62.2	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°	4327.4	34.2
0°-40°	6943.1	54.9
0°-60°	11229.7	88.8
0°-90°	12652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5625	5625	5625	5625	5625	
5°	5604	5589	5593	5612	5619	533
15°	5419	5411	5414	5403	5386	1530
25°	5023	5019	4937	4867	4829	2315
35°	4453	4399	4207	3996	3902	2788
45°	3724	3545	3143	2770	2648	2862
55°	2802	2485	1901	1693	1638	2503
65°	1807	1328	1002	496	408	1792
75°	839	550	214	110	101	900
85°	130	42	33	28	27	174
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5625.0	5625.0	5625.0	5625.0	5625.0
2.5°	5621.0	5603.9	5609.6	5627.9	5635.3
5°	5604.5	5588.6	5593.1	5612.5	5618.8
7.5°	5577.2	5561.8	5565.2	5583.4	5589.7
10°	5538.4	5522.5	5526.5	5544.1	5549.3
12.5°	5486.0	5471.2	5474.6	5487.2	5492.8
15°	5419.4	5410.8	5413.7	5403.4	5385.7
17.5°	5344.7	5332.2	5328.8	5283.2	5264.4
20°	5246.7	5242.2	5214.2	5157.8	5132.8
22.5°	5143.6	5135.1	5086.6	5018.8	4988.6
25°	5022.8	5018.8	4937.4	4867.3	4829.1
27.5°	4892.9	4883.2	4778.4	4690.7	4638.8
30°	4764.7	4740.8	4609.2	4486.1	4412.1
32.5°	4619.4	4574.4	4417.2	4259.9	4174.5
35°	4453.1	4399.0	4206.9	3995.6	3902.1
37.5°	4291.8	4210.4	3979.1	3714.7	3595.0
40°	4109.5	3992.7	3722.7	3415.6	3283.4
42.5°	3917.5	3775.1	3449.8	3092.5	2956.9
45°	3724.4	3544.9	3142.7	2769.5	2648.1
47.5°	3494.8	3304.5	2823.6	2461.3	2357.0
50°	3273.7	3051.5	2501.2	2174.1	2102.9
52.5°	3042.4	2772.9	2187.8	1931.4	1862.5
55°	2802.0	2485.2	1901.2	1692.7	1638.0
57.5°	2560.4	2189.5	1647.1	1475.6	1377.6
60°	2307.4	1896.1	1421.5	1199.3	911.6
62.5°	2058.5	1590.7	1196.5	752.1	580.0
65°	1807.2	1327.5	1002.2	496.2	408.5
67.5°	1567.4	1072.8	715.0	359.5	305.9
70°	1320.1	877.4	460.9	257.5	214.2
72.5°	1072.2	705.9	316.2	169.2	137.3
75°	839.2	549.8	213.7	110.5	100.8
77.5°	629.0	379.4	119.1	82.0	76.9
80°	427.9	227.3	72.4	62.7	59.3
82.5°	256.4	108.8	52.4	46.1	44.4
85°	130.5	42.2	33.0	28.5	26.8
87.5°	38.7	21.1	14.8	11.4	10.8
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)