

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: P565442

Luminaire Tested: **VHB-15-N-UNV-L740-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565442  
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-L740-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 4000K,  
70 CRI LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

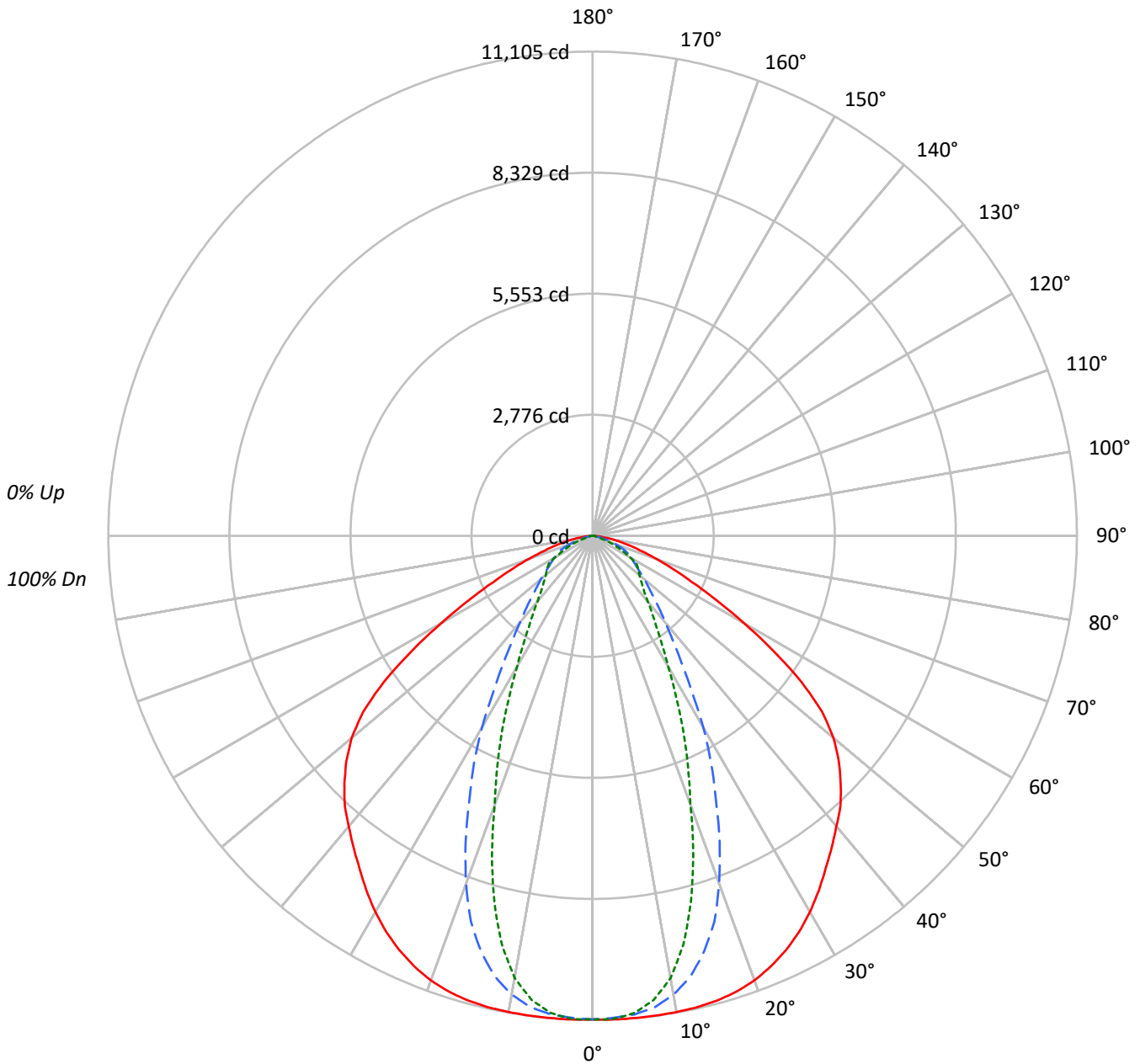
Lumens per Lamp: N/A  
Luminaire Lumens: 15646.0 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

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°	68239	68239	68239
5°	68559	68038	67841
10°	69278	66733	64297
15°	70267	62875	55439
20°	71024	55547	42922
25°	71166	45358	33259
30°	70767	36024	24616
35°	69960	26694	19142
40°	69849	20730	15798
45°	69996	17060	14033
50°	69003	14755	13385
55°	62642	13152	13524
60°	49248	12570	12322
65°	36579	12183	9272
70°	28055	9754	5661
75°	21355	6954	3123
80°	15681	3234	2526
85°	9817	2781	2244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1042.3	6.7
10°-20°	2743.9	17.5
20°-30°	3313.5	21.2
30°-40°	2962.7	18.9
40°-50°	2320.0	14.8
50°-60°	1752.9	11.2
60°-70°	1041.1	6.7
70°-80°	400.1	2.6
80°-90°	69.5	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°	7099.7	45.4
0°-40°	10062.4	64.3
0°-60°	14135.3	90.3
0°-90°	15646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15646.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11094	11094	11094	11094	11094	
5°	11104	11056	11020	11005	10988	###
15°	11035	10671	9874	9049	8706	3118
25°	10486	9253	6683	5269	4901	4828
35°	9317	6630	3555	2772	2549	5843
45°	8047	3428	1961	1657	1613	6194
55°	5842	1860	1226	1222	1261	5130
65°	2513	1045	837	698	637	2590
75°	899	502	293	145	131	984
85°	139	48	39	35	32	185
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11094.3	11094.3	11094.3	11094.3	11094.3
2.5°	11104.6	11068.0	11065.2	11088.7	11092.2
5°	11104.0	11055.5	11019.6	11005.0	10987.7
7.5°	11100.5	11027.2	10906.1	10789.9	10735.9
10°	11092.2	10962.1	10684.7	10420.5	10294.6
12.5°	11074.2	10845.9	10356.1	9870.5	9606.2
15°	11034.8	10670.9	9873.9	9048.6	8706.2
17.5°	10963.5	10429.5	9283.2	8118.2	7677.5
20°	10850.8	10122.3	8486.2	7057.0	6557.5
22.5°	10688.9	9721.1	7608.3	6101.6	5702.4
25°	10486.2	9252.7	6683.4	5269.4	4900.7
27.5°	10245.4	8706.2	5886.5	4494.6	4131.4
30°	9963.9	8067.7	5072.2	3762.7	3465.9
32.5°	9649.1	7395.3	4222.0	3204.4	2960.2
35°	9317.1	6630.1	3555.1	2772.0	2549.3
37.5°	9004.4	5811.1	3010.7	2389.4	2233.1
40°	8699.3	4950.5	2581.8	2087.1	1967.5
42.5°	8411.5	4127.2	2253.9	1833.9	1755.8
45°	8046.9	3428.5	1961.2	1656.8	1613.3
47.5°	7660.2	2893.8	1728.8	1512.9	1497.7
50°	7211.2	2464.9	1542.0	1387.7	1398.8
52.5°	6628.8	2125.9	1364.9	1299.2	1331.7
55°	5841.5	1860.2	1226.5	1221.7	1261.1
57.5°	4919.3	1606.3	1117.2	1147.7	1192.0
60°	4003.4	1402.3	1021.8	1066.1	1001.7
62.5°	3198.2	1214.8	931.2	850.2	794.9
65°	2513.3	1044.6	837.1	698.0	637.1
67.5°	2004.1	886.2	704.2	555.5	505.0
70°	1560.0	745.1	542.4	417.2	314.8
72.5°	1195.4	622.6	423.4	237.3	179.2
75°	898.6	502.2	292.6	144.6	131.4
77.5°	640.6	372.9	156.3	104.5	96.9
80°	442.7	239.4	91.3	75.4	71.3
82.5°	274.6	115.5	62.3	54.0	50.5
85°	139.1	48.4	39.4	34.6	31.8
87.5°	46.4	23.5	18.0	16.6	15.2
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)