

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: P565448

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

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565448  
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-L740-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 70 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

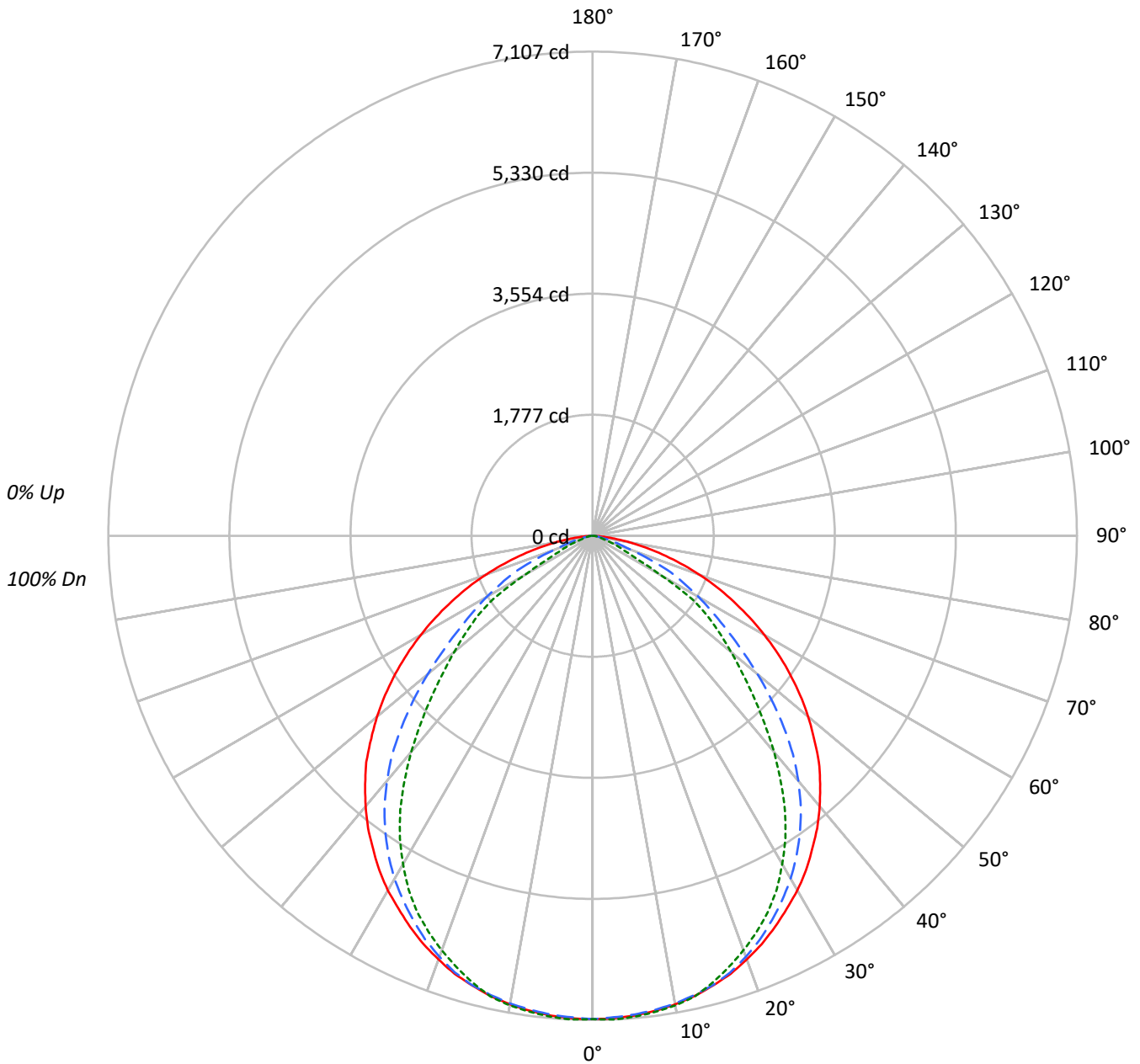
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15957.0 lumens  
Efficiency: N/A  
Efficacy: 143.0 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

TEST NUMBER: P565448  
CATALOG NUMBER: VHB-15-W-UNV-L740-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P565448

CATALOG NUMBER: VHB-15-W-UNV-L740-CD1-U

**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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75				
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65				65				
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57				57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50				50				
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44				44				
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	39				39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36				36				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32				32				
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29				29				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	43636	43636	43636
5°	43643	43555	43754
10°	43627	43533	43712
15°	43524	43478	43254
20°	43314	43045	42373
25°	42993	42261	41335
30°	42681	41287	39522
35°	42171	39841	36954
40°	41616	37698	33250
45°	40860	34478	29052
50°	39509	30185	25379
55°	37896	25714	22154
60°	35800	22054	14143
65°	33173	18396	7498
70°	29941	10454	4859
75°	25155	6405	3023
80°	19113	3234	2646
85°	11616	2943	2385



TEST NUMBER: P565448

CATALOG NUMBER: VHB-15-W-UNV-L740-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.7	4.2
10°-20°	1921.6	12.0
20°-30°	2864.5	18.0
30°-40°	3299.0	20.7
40°-50°	3070.2	19.2
50°-60°	2336.2	14.6
60°-70°	1254.0	7.9
70°-80°	461.4	2.9
80°-90°	78.5	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°	5457.8	34.2
0°-40°	8756.8	54.9
0°-60°	14163.2	88.8
0°-90°	15957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7094	7094	7094	7094	7094	
5°	7068	7048	7054	7079	7086	672
15°	6835	6824	6828	6815	6793	1929
25°	6335	6330	6227	6139	6091	2920
35°	5616	5548	5306	5039	4922	3516
45°	4697	4471	3964	3493	3340	3610
55°	3534	3134	2398	2135	2066	3157
65°	2279	1674	1264	626	515	2260
75°	1058	693	270	139	127	1135
85°	165	53	42	36	34	219
90°	0	0	0	0	0	



TEST NUMBER: P565448

CATALOG NUMBER: VHB-15-W-UNV-L740-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7094.4	7094.4	7094.4	7094.4	7094.4
2.5°	7089.4	7067.8	7075.0	7098.0	7107.4
5°	7068.5	7048.4	7054.2	7078.6	7086.5
7.5°	7034.1	7014.7	7019.0	7042.0	7049.9
10°	6985.2	6965.1	6970.1	6992.4	6998.8
12.5°	6919.1	6900.4	6904.7	6920.5	6927.7
15°	6835.0	6824.2	6827.8	6814.9	6792.6
17.5°	6740.9	6725.1	6720.8	6663.3	6639.6
20°	6617.3	6611.5	6576.3	6505.2	6473.6
22.5°	6487.2	6476.4	6415.4	6329.9	6291.8
25°	6334.9	6329.9	6227.1	6138.7	6090.6
27.5°	6171.1	6158.8	6026.6	5916.0	5850.6
30°	6009.4	5979.2	5813.2	5658.0	5564.6
32.5°	5826.1	5769.4	5571.1	5372.7	5264.9
35°	5616.3	5548.1	5305.9	5039.3	4921.5
37.5°	5413.0	5310.2	5018.5	4685.1	4534.2
40°	5183.0	5035.7	4695.1	4307.8	4141.1
42.5°	4940.9	4761.2	4350.9	3900.4	3729.4
45°	4697.3	4470.9	3963.6	3493.0	3339.9
47.5°	4407.7	4167.7	3561.2	3104.2	2972.7
50°	4128.9	3848.6	3154.5	2742.1	2652.2
52.5°	3837.2	3497.3	2759.3	2435.9	2349.0
55°	3533.9	3134.4	2397.9	2134.9	2065.9
57.5°	3229.2	2761.5	2077.4	1861.1	1737.5
60°	2910.2	2391.4	1792.8	1512.6	1149.7
62.5°	2596.2	2006.2	1509.0	948.5	731.5
65°	2279.3	1674.3	1264.0	625.9	515.2
67.5°	1976.8	1353.1	901.8	453.4	385.9
70°	1664.9	1106.6	581.3	324.8	270.2
72.5°	1352.3	890.3	398.8	213.4	173.2
75°	1058.5	693.4	269.5	139.4	127.2
77.5°	793.3	478.6	150.2	103.5	97.0
80°	539.6	286.7	91.3	79.0	74.7
82.5°	323.4	137.2	66.1	58.2	56.0
85°	164.6	53.2	41.7	35.9	33.8
87.5°	48.9	26.6	18.7	14.4	13.7
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)