

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: P563324

Luminaire Tested: **VHB-12-W-UNV-L750-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/3/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-12-W-UNV-L750-CD  
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 5000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

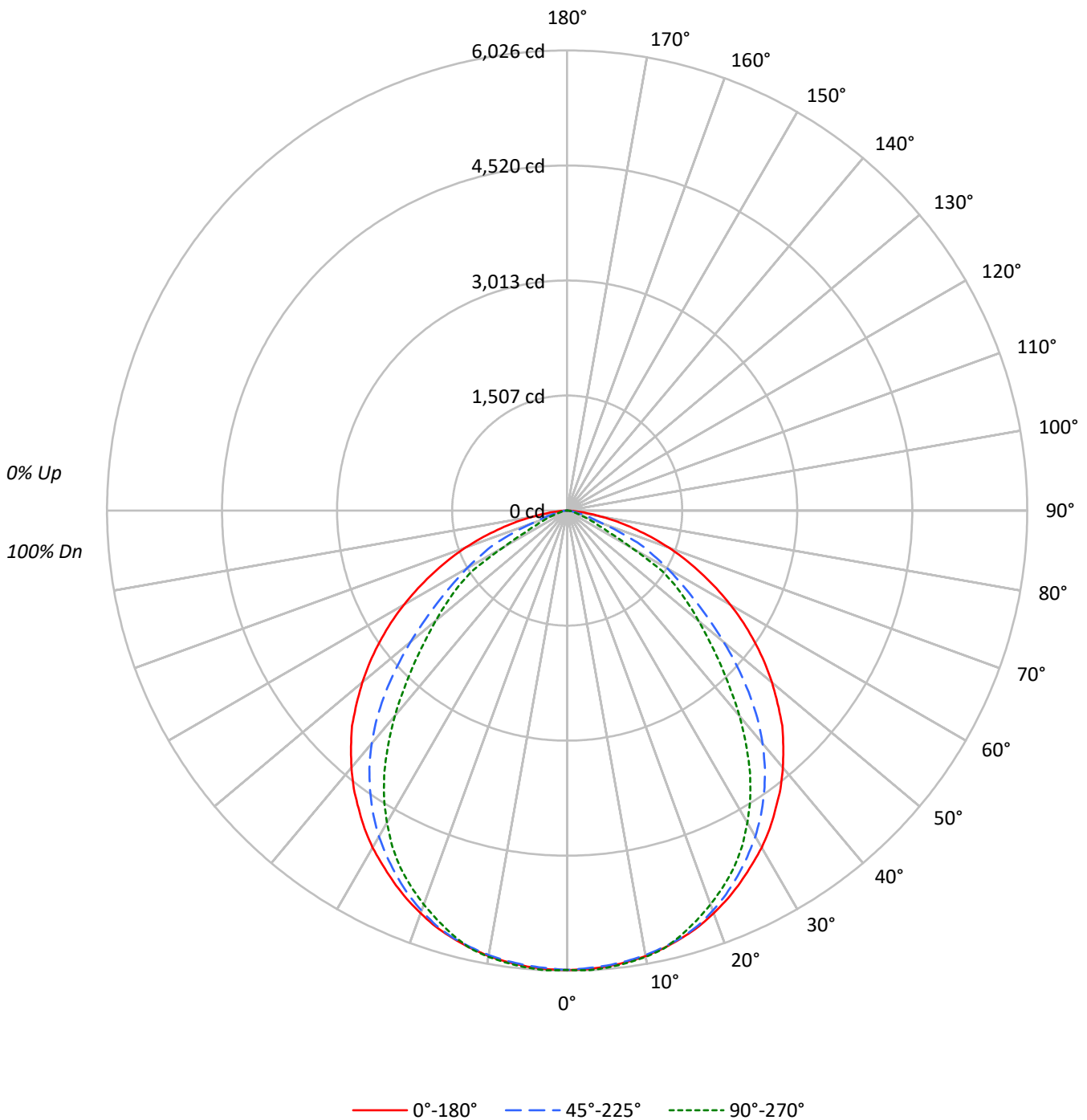
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13530.0 lumens  
Efficiency: N/A  
Efficacy: 169.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 80  
Input Voltage (V): NR  
Input Current (Ain): 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: P563324

CATALOG NUMBER: VHB-12-W-UNV-L750-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P563324

CATALOG NUMBER: VHB-12-W-UNV-L750-CD

**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	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°	35053	35053	35053
5°	35058	34987	35148
10°	35046	34970	35114
15°	34962	34926	34746
20°	34794	34578	34038
25°	34536	33948	33204
30°	34285	33166	31748
35°	33876	32004	29685
40°	33430	30283	26709
45°	32822	27695	23337
50°	31737	24247	20386
55°	30442	20656	17796
60°	28758	17716	11362
65°	26647	14777	6023
70°	24052	8398	3903
75°	20207	5145	2427
80°	15356	2597	2124
85°	9327	2360	1919



TEST NUMBER: P563324

CATALOG NUMBER: VHB-12-W-UNV-L750-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.5	4.2
10°-20°	1629.4	12.0
20°-30°	2428.8	18.0
30°-40°	2797.2	20.7
40°-50°	2603.2	19.2
50°-60°	1980.9	14.6
60°-70°	1063.3	7.9
70°-80°	391.2	2.9
80°-90°	66.5	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
<hr/>		
0°-30°	4627.7	34.2
0°-40°	7424.9	54.9
0°-60°	12009.0	88.8
0°-90°	13530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13530.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6015	6015	6015	6015	6015	
5°	5993	5976	5981	6002	6009	570
15°	5795	5786	5789	5778	5760	1636
25°	5371	5367	5280	5205	5164	2476
35°	4762	4704	4499	4273	4173	2981
45°	3983	3791	3361	2962	2832	3061
55°	2996	2658	2033	1810	1752	2676
65°	1933	1420	1072	531	437	1916
75°	898	588	228	118	108	962
85°	140	45	35	30	29	186
90°	0	0	0	0	0	



TEST NUMBER: P563324

CATALOG NUMBER: VHB-12-W-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6015.4	6015.4	6015.4	6015.4	6015.4
2.5°	6011.1	5992.8	5999.0	6018.4	6026.4
5°	5993.4	5976.4	5981.2	6002.0	6008.7
7.5°	5964.2	5947.8	5951.4	5970.9	5977.6
10°	5922.8	5905.7	5910.0	5928.8	5934.3
12.5°	5866.7	5850.9	5854.5	5868.0	5874.0
15°	5795.4	5786.3	5789.4	5778.4	5759.5
17.5°	5715.6	5702.2	5698.6	5649.8	5629.7
20°	5610.9	5606.0	5576.1	5515.8	5489.0
22.5°	5500.5	5491.4	5439.6	5367.1	5334.8
25°	5371.4	5367.1	5280.0	5205.0	5164.2
27.5°	5232.5	5222.1	5110.0	5016.2	4960.7
30°	5095.4	5069.8	4929.1	4797.4	4718.3
32.5°	4940.0	4891.8	4723.7	4555.6	4464.2
35°	4762.1	4704.2	4498.9	4272.8	4172.9
37.5°	4589.7	4502.5	4255.2	3972.5	3844.5
40°	4394.7	4269.8	3981.0	3652.6	3511.2
42.5°	4189.4	4037.0	3689.2	3307.2	3162.1
45°	3982.8	3790.9	3360.7	2961.7	2831.9
47.5°	3737.3	3533.8	3019.6	2632.1	2520.6
50°	3500.9	3263.3	2674.7	2325.0	2248.8
52.5°	3253.6	2965.4	2339.6	2065.4	1991.7
55°	2996.4	2657.6	2033.2	1810.2	1751.7
57.5°	2738.1	2341.5	1761.4	1578.1	1473.3
60°	2467.6	2027.7	1520.1	1282.5	974.9
62.5°	2201.3	1701.1	1279.5	804.2	620.2
65°	1932.6	1419.6	1071.7	530.7	436.8
67.5°	1676.1	1147.3	764.6	384.4	327.2
70°	1411.7	938.3	492.9	275.4	229.1
72.5°	1146.7	754.9	338.2	181.0	146.8
75°	897.5	587.9	228.5	118.2	107.8
77.5°	672.6	405.8	127.3	87.7	82.3
80°	457.6	243.1	77.4	67.0	63.3
82.5°	274.2	116.4	56.1	49.4	47.5
85°	139.5	45.1	35.3	30.4	28.7
87.5°	41.5	22.5	15.8	12.2	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)