

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: P563315

Luminaire Tested: **VHB-9-N-UNV-L750-CD**

Issue Date: 6/3/2022



**Test Information**

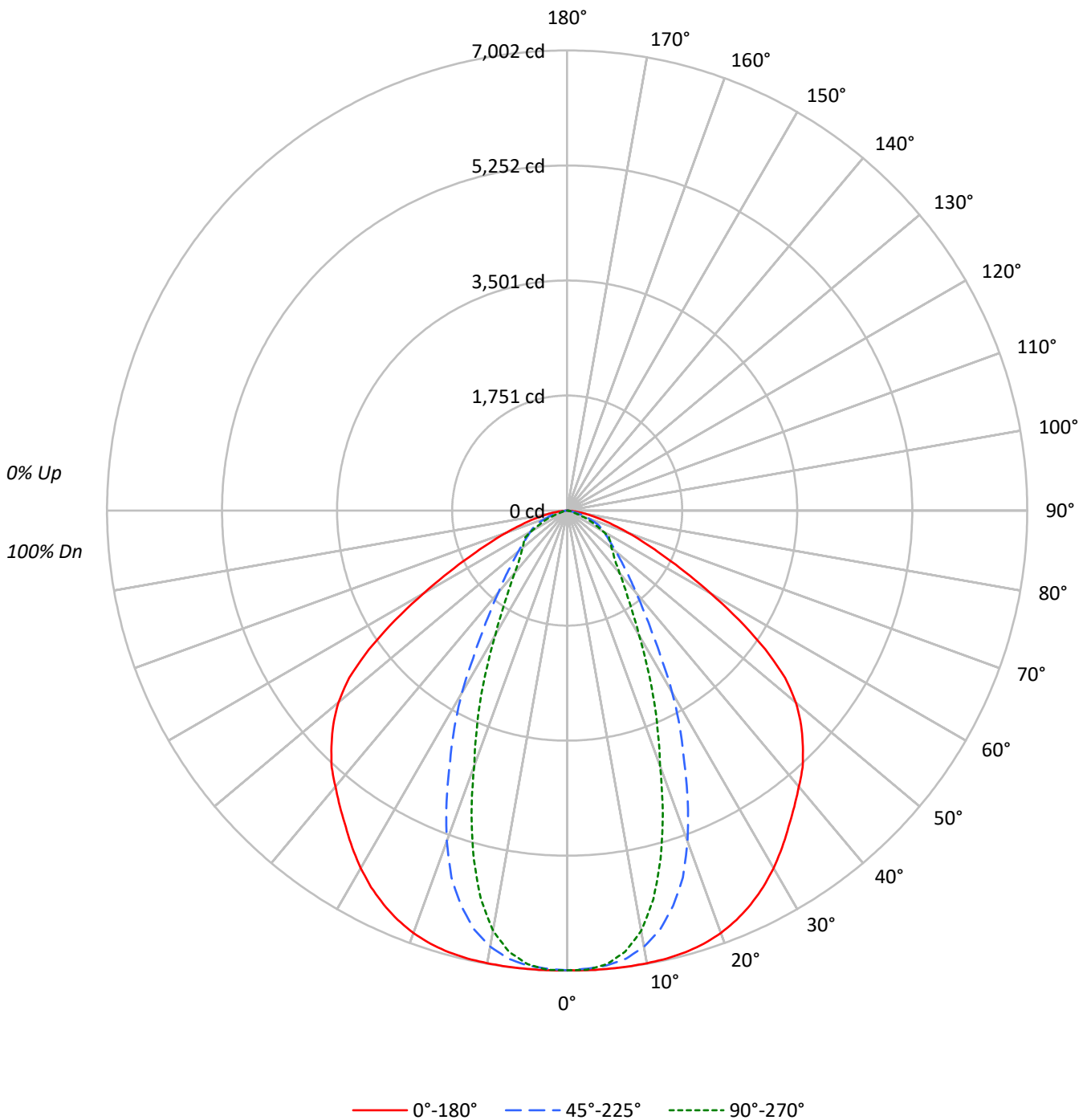
Test Method: LM-79-08  
Report Number: P563315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/3/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-9-N-UNV-L750-CD  
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 5000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9865.0 lumens  
Efficiency: N/A  
Efficacy: 176.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86  
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 56  
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

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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	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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42					42			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

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

	0°	45°	90°
0°	40761	40761	40761
5°	40953	40642	40524
10°	41383	39863	38407
15°	41973	37558	33116
20°	42425	33181	25639
25°	42511	27094	19867
30°	42272	21519	14704
35°	41789	15946	11434
40°	41724	12383	9436
45°	41812	10191	8383
50°	41218	8813	7995
55°	37418	7856	8079
60°	29418	7508	7361
65°	21850	7277	5540
70°	16758	5825	3382
75°	12757	4154	1866
80°	9366	1933	1507
85°	5857	1658	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	657.2	6.7
10°-20°	1730.0	17.5
20°-30°	2089.2	21.2
30°-40°	1868.0	18.9
40°-50°	1462.8	14.8
50°-60°	1105.2	11.2
60°-70°	656.4	6.7
70°-80°	252.3	2.6
80°-90°	43.8	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°	4476.4	45.4
0°-40°	6344.4	64.3
0°-60°	8912.5	90.3
0°-90°	9865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6995	6995	6995	6995	6995	
5°	7001	6971	6948	6939	6928	668
15°	6958	6728	6226	5705	5489	1966
25°	6612	5834	4214	3322	3090	3044
35°	5874	4180	2242	1748	1607	3684
45°	5074	2162	1237	1045	1017	3905
55°	3683	1173	773	770	795	3234
65°	1585	659	528	440	402	1633
75°	567	317	184	91	83	620
85°	88	30	25	22	20	117
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6995.0	6995.0	6995.0	6995.0	6995.0
2.5°	7001.6	6978.5	6976.7	6991.6	6993.8
5°	7001.1	6970.6	6948.0	6938.8	6927.9
7.5°	6999.0	6952.8	6876.4	6803.2	6769.2
10°	6993.8	6911.8	6736.9	6570.3	6490.9
12.5°	6982.4	6838.5	6529.6	6223.5	6056.8
15°	6957.6	6728.1	6225.7	5705.2	5489.3
17.5°	6912.6	6575.9	5853.1	5118.6	4840.7
20°	6841.5	6382.2	5350.7	4449.5	4134.6
22.5°	6739.4	6129.3	4797.1	3847.1	3595.5
25°	6611.7	5834.0	4214.0	3322.4	3089.9
27.5°	6459.9	5489.3	3711.4	2833.9	2604.9
30°	6282.4	5086.7	3198.1	2372.4	2185.3
32.5°	6083.9	4662.8	2662.1	2020.4	1866.5
35°	5874.5	4180.4	2241.6	1747.8	1607.3
37.5°	5677.3	3663.9	1898.3	1506.6	1408.0
40°	5485.0	3121.3	1627.9	1316.0	1240.5
42.5°	5303.6	2602.3	1421.1	1156.3	1107.0
45°	5073.7	2161.7	1236.6	1044.7	1017.2
47.5°	4829.8	1824.5	1090.0	953.9	944.3
50°	4546.7	1554.2	972.2	875.0	881.9
52.5°	4179.5	1340.4	860.6	819.1	839.7
55°	3683.1	1172.9	773.3	770.3	795.2
57.5°	3101.7	1012.8	704.4	723.6	751.5
60°	2524.2	884.2	644.2	672.1	631.6
62.5°	2016.5	766.0	587.1	536.0	501.2
65°	1584.7	658.6	527.8	440.1	401.8
67.5°	1263.6	558.7	444.0	350.3	318.4
70°	983.6	469.8	341.9	263.0	198.5
72.5°	753.8	392.6	266.9	149.6	113.0
75°	566.6	316.7	184.5	91.2	82.9
77.5°	403.9	235.1	98.5	65.9	61.1
80°	279.1	151.0	57.6	47.5	44.9
82.5°	173.2	72.9	39.3	34.0	31.9
85°	87.6	30.5	24.8	21.8	20.1
87.5°	29.2	14.9	11.3	10.5	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)