

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: P563306

Luminaire Tested: **VHB-48-N-UNV-L750-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563306  
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-48-N-UNV-L750-CD  
Description: 48000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

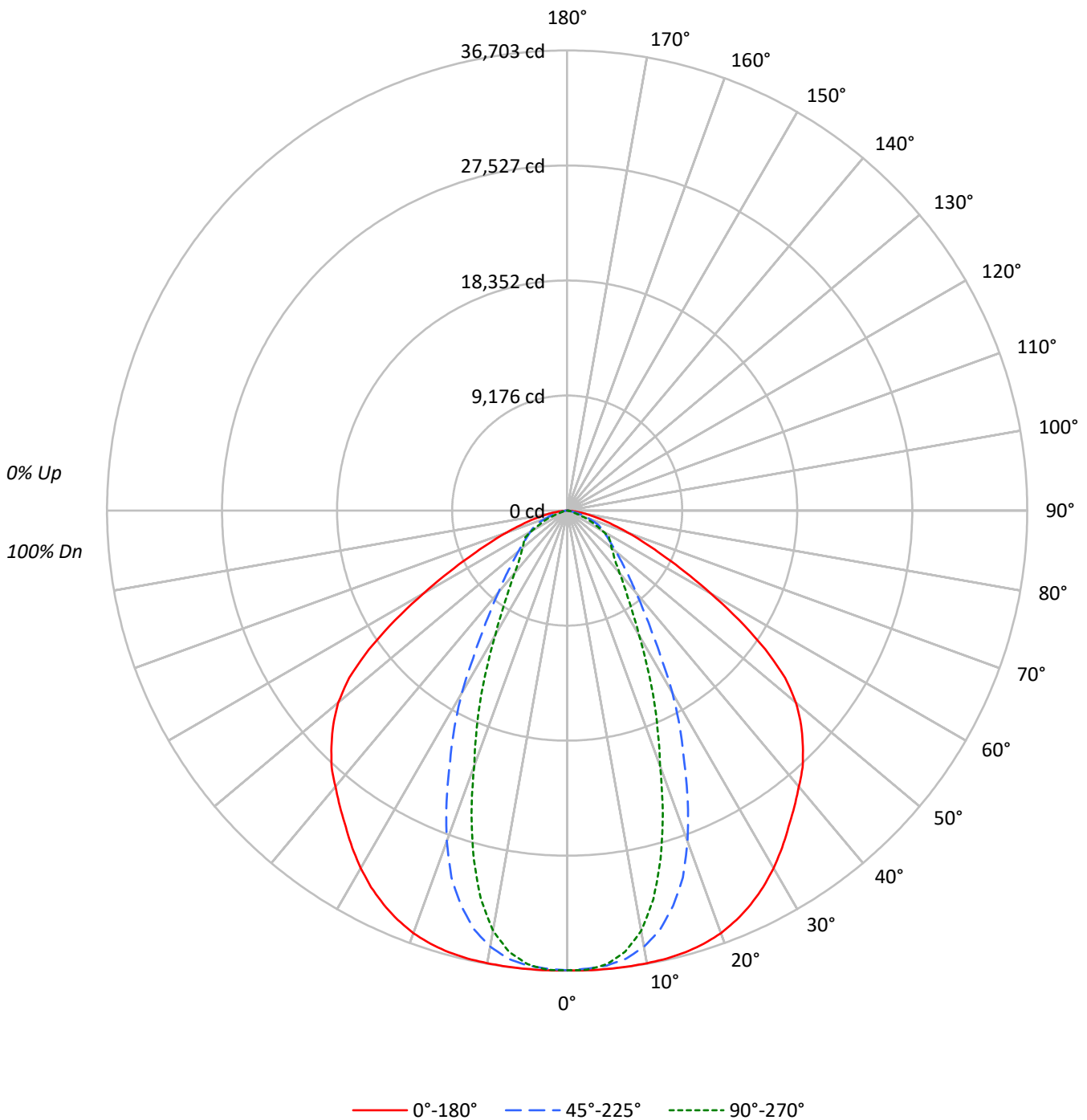
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51713.0 lumens  
Efficiency: N/A  
Efficacy: 159.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86  
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 324  
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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CATALOG NUMBER: VHB-48-N-UNV-L750-CD

### 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	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°	142450	142450	142450
5°	143119	142032	141621
10°	144622	139309	134221
15°	146685	131254	115731
20°	148265	115956	89602
25°	148562	94687	69429
30°	147729	75202	51386
35°	146042	55726	39958
40°	145814	43274	32978
45°	146121	35613	29295
50°	144047	30801	27941
55°	130767	27456	28232
60°	102809	26240	25725
65°	76360	25432	19360
70°	58566	20359	11818
75°	44579	14520	6520
80°	32734	6756	5266
85°	20481	5803	4685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3445.1	6.7
10°-20°	9069.0	17.5
20°-30°	10951.7	21.2
30°-40°	9792.2	18.9
40°-50°	7668.0	14.8
50°-60°	5793.7	11.2
60°-70°	3441.1	6.7
70°-80°	1322.4	2.6
80°-90°	229.8	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°	23465.8	45.4
0°-40°	33258.0	64.3
0°-60°	46719.7	90.3
0°-90°	51713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51713.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	36668	36668	36668	36668	36668	
5°	36700	36540	36422	36374	36316	###
15°	36472	35269	32635	29907	28776	10305
25°	34659	30582	22090	17416	16198	15958
35°	30795	21914	11750	9162	8426	19311
45°	26597	11332	6482	5476	5332	20473
55°	19307	6149	4054	4038	4168	16955
65°	8307	3452	2767	2307	2106	8559
75°	2970	1660	967	478	434	3252
85°	460	160	130	114	105	612
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	36668.5	36668.5	36668.5	36668.5	36668.5
2.5°	36703.1	36582.0	36572.4	36650.3	36662.0
5°	36700.5	36540.4	36421.9	36373.9	36316.3
7.5°	36689.2	36447.0	36046.8	35662.6	35484.4
10°	36662.0	36231.9	35315.2	34441.7	34025.5
12.5°	36602.3	35847.8	34228.8	32623.8	31750.3
15°	36472.1	35269.3	32635.4	29907.2	28775.5
17.5°	36236.3	34471.1	30682.5	26832.1	25375.4
20°	35863.8	33456.2	28048.6	23324.7	21673.8
22.5°	35328.6	32130.1	25147.0	20166.9	18847.8
25°	34658.9	30582.2	22090.0	17416.2	16197.5
27.5°	33863.3	28775.5	19455.6	14855.4	13654.9
30°	32932.7	26665.1	16764.6	12436.1	11455.3
32.5°	31892.2	24442.6	13954.7	10590.9	9784.1
35°	30794.6	21913.9	11750.4	9161.9	8425.6
37.5°	29761.0	19206.4	9951.1	7897.8	7380.8
40°	28753.0	16362.3	8533.3	6898.4	6502.9
42.5°	27801.6	13641.4	7449.6	6061.7	5802.9
45°	26596.7	11332.0	6482.2	5476.3	5332.2
47.5°	25318.3	9564.3	5713.8	5000.4	4950.2
50°	23834.3	8147.0	5096.4	4586.8	4623.1
52.5°	21909.1	7026.4	4511.1	4293.9	4401.6
55°	19307.2	6148.6	4053.8	4037.8	4168.4
57.5°	16259.3	5309.3	3692.5	3793.4	3939.6
60°	13232.2	4634.8	3377.2	3523.4	3311.0
62.5°	10570.6	4015.3	3077.8	2810.0	2627.4
65°	8307.0	3452.4	2766.7	2307.2	2106.1
67.5°	6624.1	2928.9	2327.6	1836.1	1669.1
70°	5156.2	2462.6	1792.4	1378.8	1040.5
72.5°	3951.3	2058.0	1399.1	784.4	592.3
75°	2970.0	1660.0	967.4	478.1	434.4
77.5°	2117.3	1232.6	516.6	345.2	320.2
80°	1463.2	791.3	302.0	249.2	235.4
82.5°	907.7	382.0	205.9	178.2	167.0
85°	459.5	160.1	130.2	114.2	105.1
87.5°	153.2	77.9	59.3	54.9	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)