

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: P563261

Luminaire Tested: **VHB-15-N-UNV-L750-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563261  
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-15-N-UNV-L750-CD  
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

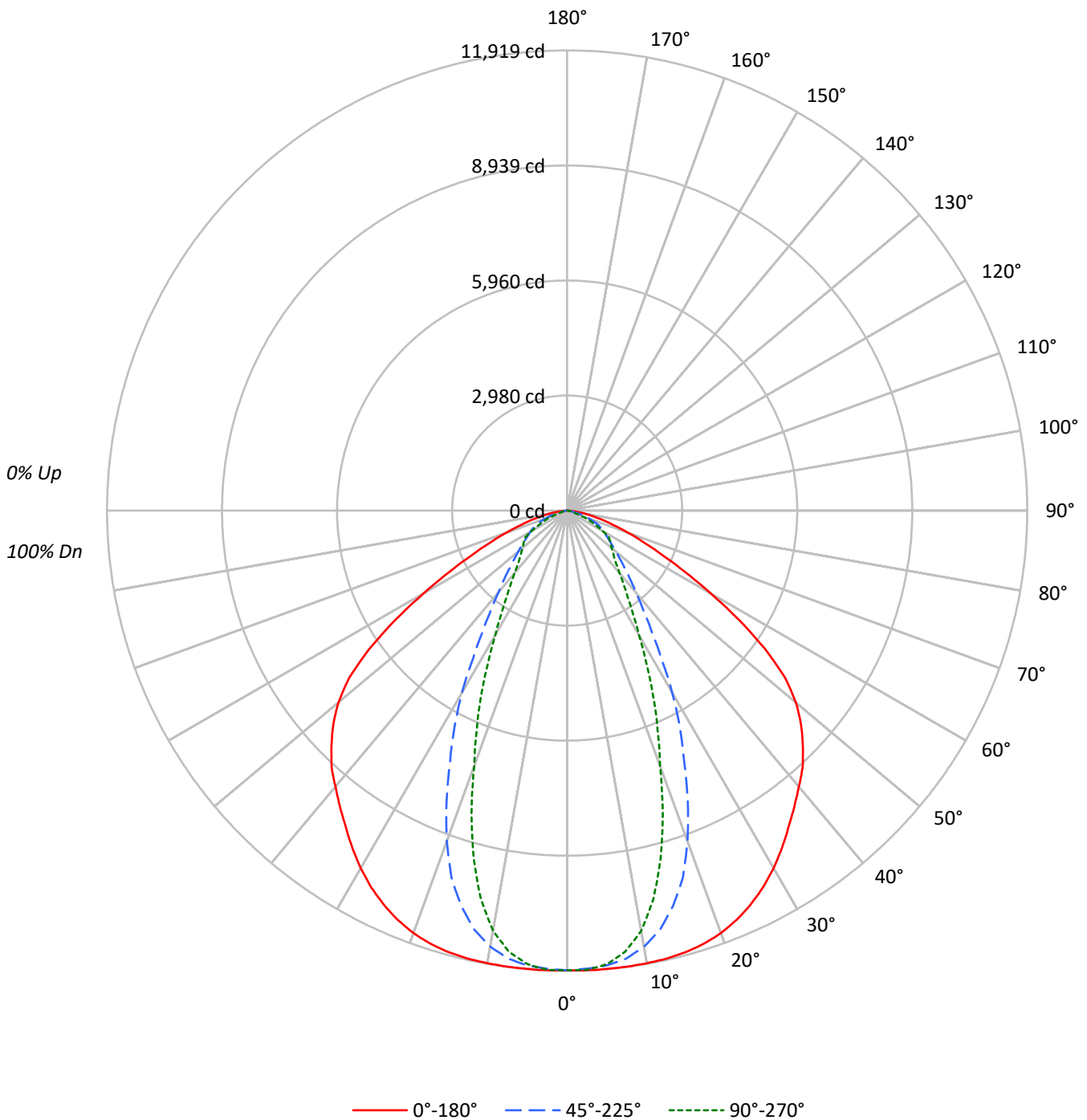
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16793.0 lumens  
Efficiency: N/A  
Efficacy: 161.5 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): 104  
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	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°	69387	69387	69387
5°	69713	69184	68984
10°	70445	67858	65380
15°	71450	63934	56372
20°	72220	56483	43645
25°	72364	46122	33819
30°	71959	36631	25030
35°	71138	27144	19464
40°	71026	21079	16063
45°	71176	17347	14270
50°	70165	15003	13610
55°	63696	13374	13752
60°	50078	12781	12531
65°	37195	12387	9430
70°	28528	9918	5757
75°	21715	7072	3177
80°	15943	3292	2564
85°	9975	2828	2280



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1118.7	6.7
10°-20°	2945.0	17.5
20°-30°	3556.4	21.2
30°-40°	3179.9	18.9
40°-50°	2490.1	14.8
50°-60°	1881.4	11.2
60°-70°	1117.4	6.7
70°-80°	429.4	2.6
80°-90°	74.6	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°	7620.2	45.4
0°-40°	10800.0	64.3
0°-60°	15171.5	90.3
0°-90°	16793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11908	11908	11908	11908	11908	
5°	11918	11866	11827	11812	11793	###
15°	11844	11453	10598	9712	9344	3346
25°	11255	9931	7173	5656	5260	5182
35°	10000	7116	3816	2975	2736	6271
45°	8637	3680	2105	1778	1732	6648
55°	6270	1997	1316	1311	1354	5506
65°	2698	1121	898	749	684	2779
75°	964	539	314	155	141	1056
85°	149	52	42	37	34	199
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11907.5	11907.5	11907.5	11907.5	11907.5
2.5°	11918.8	11879.4	11876.3	11901.6	11905.4
5°	11917.9	11865.9	11827.4	11811.8	11793.2
7.5°	11914.3	11835.6	11705.6	11580.9	11523.0
10°	11905.4	11765.8	11468.1	11184.4	11049.3
12.5°	11886.0	11641.0	11115.3	10594.1	10310.4
15°	11843.7	11453.2	10597.9	9711.9	9344.4
17.5°	11767.2	11194.0	9963.7	8713.3	8240.3
20°	11646.2	10864.4	9108.4	7574.3	7038.2
22.5°	11472.4	10433.8	8166.1	6548.9	6120.5
25°	11254.9	9931.1	7173.4	5655.6	5259.9
27.5°	10996.6	9344.4	6317.9	4824.1	4434.2
30°	10694.4	8659.1	5444.1	4038.4	3719.9
32.5°	10356.5	7937.4	4531.6	3439.2	3177.2
35°	10000.1	7116.2	3815.8	2975.2	2736.1
37.5°	9664.4	6237.0	3231.5	2564.7	2396.8
40°	9337.1	5313.4	2771.1	2240.1	2111.7
42.5°	9028.1	4429.8	2419.1	1968.4	1884.4
45°	8636.9	3679.9	2105.0	1778.3	1731.6
47.5°	8221.7	3105.9	1855.5	1623.8	1607.5
50°	7739.8	2645.6	1655.0	1489.5	1501.3
52.5°	7114.6	2281.7	1464.9	1394.4	1429.4
55°	6269.7	1996.7	1316.4	1311.2	1353.6
57.5°	5280.0	1724.1	1199.1	1231.8	1279.3
60°	4296.9	1505.1	1096.7	1144.2	1075.2
62.5°	3432.6	1303.9	999.5	912.5	853.2
65°	2697.6	1121.1	898.4	749.2	683.9
67.5°	2151.1	951.1	755.8	596.2	542.0
70°	1674.4	799.7	582.1	447.7	337.9
72.5°	1283.1	668.3	454.4	254.7	192.3
75°	964.5	539.1	314.1	155.2	141.1
77.5°	687.6	400.3	167.7	112.1	104.0
80°	475.1	257.0	98.1	80.9	76.4
82.5°	294.8	124.1	66.9	57.9	54.2
85°	149.2	52.0	42.3	37.1	34.1
87.5°	49.7	25.3	19.2	17.8	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)