

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: P565431

Luminaire Tested: **VHB-12-N-UNV-L750-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-2)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-N-UNV-L750-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 5000K,
70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

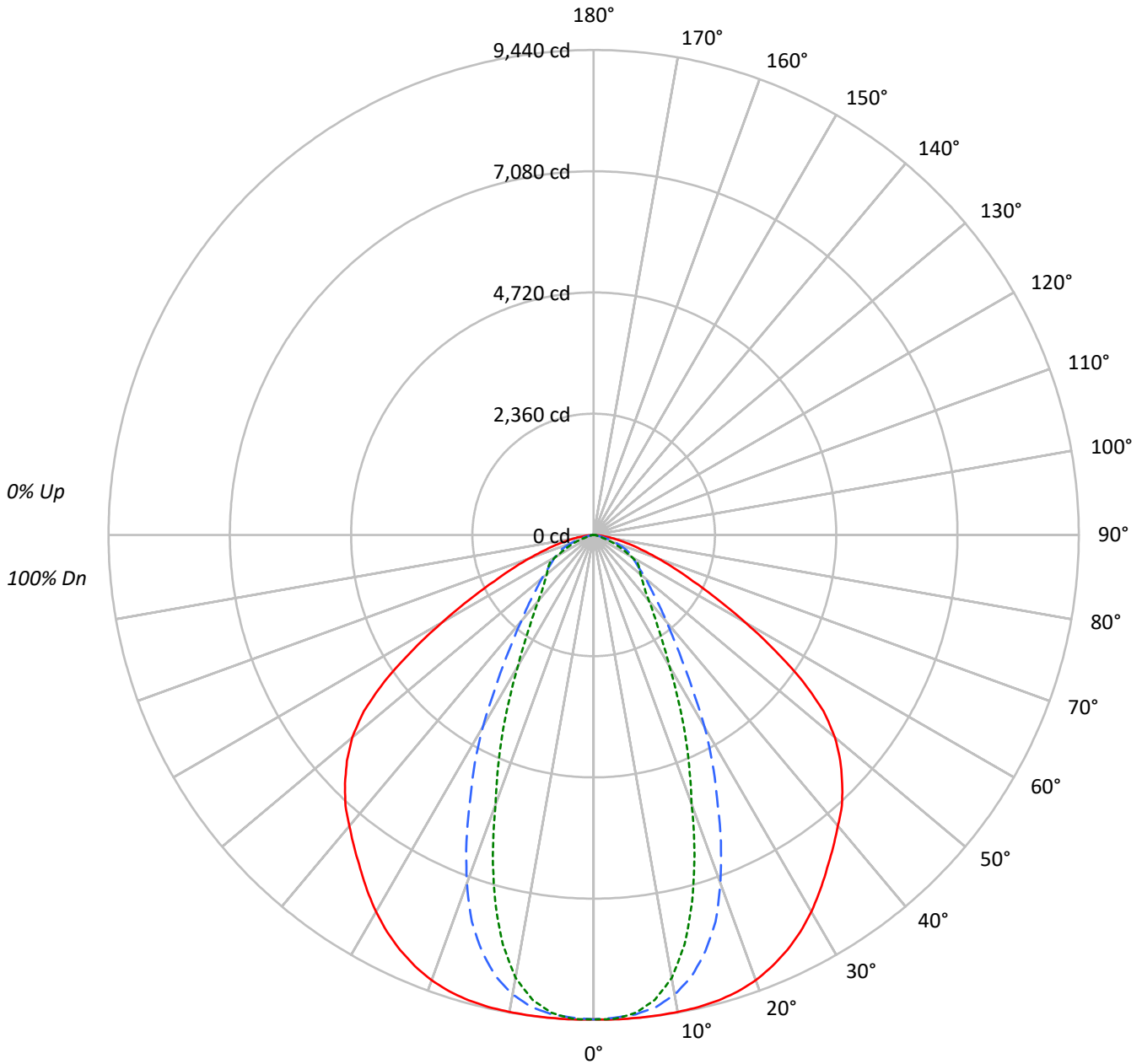
Lumens per Lamp: N/A
Luminaire Lumens: 13300.0 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 87
Input Voltage (V): NR
Input Current (A_{in}): 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
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°	58007	58007	58007
5°	58279	57836	57669
10°	58890	56727	54656
15°	59731	53447	47127
20°	60375	47218	36486
25°	60495	38557	28272
30°	60156	30623	20925
35°	59469	22692	16271
40°	59376	17622	13429
45°	59501	14502	11929
50°	58658	12543	11378
55°	53249	11180	11496
60°	41864	10685	10475
65°	31093	10357	7882
70°	23848	8290	4812
75°	18154	5913	2655
80°	13332	2749	2147
85°	8342	2364	1913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.0	6.7
10°-20°	2332.4	17.5
20°-30°	2816.7	21.2
30°-40°	2518.5	18.9
40°-50°	1972.1	14.8
50°-60°	1490.1	11.2
60°-70°	885.0	6.7
70°-80°	340.1	2.6
80°-90°	59.1	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°	6035.1	45.4
0°-40°	8553.6	64.3
0°-60°	12015.8	90.3
0°-90°	13300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9431	9431	9431	9431	9431	
5°	9439	9398	9367	9355	9340	901
15°	9380	9071	8393	7692	7401	2650
25°	8914	7865	5681	4479	4166	4104
35°	7920	5636	3022	2356	2167	4967
45°	6840	2914	1667	1408	1371	5265
55°	4966	1581	1043	1038	1072	4361
65°	2136	888	712	593	542	2201
75°	764	427	249	123	112	836
85°	118	41	34	29	27	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9430.8	9430.8	9430.8	9430.8	9430.8
2.5°	9439.6	9408.4	9406.1	9426.1	9429.0
5°	9439.0	9397.8	9367.3	9354.9	9340.2
7.5°	9436.1	9373.7	9270.8	9172.0	9126.2
10°	9429.0	9318.4	9082.6	8858.0	8751.0
12.5°	9413.7	9219.7	8803.3	8390.5	8165.8
15°	9380.2	9070.9	8393.4	7691.9	7400.8
17.5°	9319.6	8865.6	7891.2	6900.9	6526.3
20°	9223.8	8604.5	7213.8	5998.8	5574.2
22.5°	9086.2	8263.5	6467.5	5186.7	4847.4
25°	8913.9	7865.3	5681.3	4479.3	4165.8
27.5°	8709.2	7400.8	5003.8	3820.6	3511.9
30°	8469.9	6858.0	4311.7	3198.5	2946.2
32.5°	8202.3	6286.4	3588.9	2723.9	2516.3
35°	7920.0	5636.0	3022.1	2356.4	2167.0
37.5°	7654.2	4939.7	2559.3	2031.2	1898.3
40°	7394.9	4208.2	2194.7	1774.2	1672.5
42.5°	7150.3	3508.4	1915.9	1559.0	1492.5
45°	6840.3	2914.4	1667.2	1408.4	1371.4
47.5°	6511.6	2459.9	1469.6	1286.1	1273.2
50°	6130.0	2095.3	1310.8	1179.7	1189.1
52.5°	5634.8	1807.1	1160.2	1104.4	1132.0
55°	4965.6	1581.3	1042.6	1038.5	1072.0
57.5°	4181.7	1365.5	949.7	975.6	1013.2
60°	3403.1	1192.0	868.6	906.2	851.5
62.5°	2718.6	1032.6	791.5	722.7	675.7
65°	2136.4	888.0	711.6	593.4	541.6
67.5°	1703.6	753.3	598.6	472.2	429.3
70°	1326.1	633.3	461.0	354.6	267.6
72.5°	1016.2	529.3	359.9	201.7	152.3
75°	763.9	426.9	248.8	122.9	111.7
77.5°	544.5	317.0	132.9	88.8	82.3
80°	376.4	203.5	77.6	64.1	60.6
82.5°	233.5	98.2	52.9	45.9	42.9
85°	118.2	41.2	33.5	29.4	27.1
87.5°	39.4	20.0	15.3	14.1	12.9
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)