

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: P565455

Luminaire Tested: **VHB-18-N-UNV-L750-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565455
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-18-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

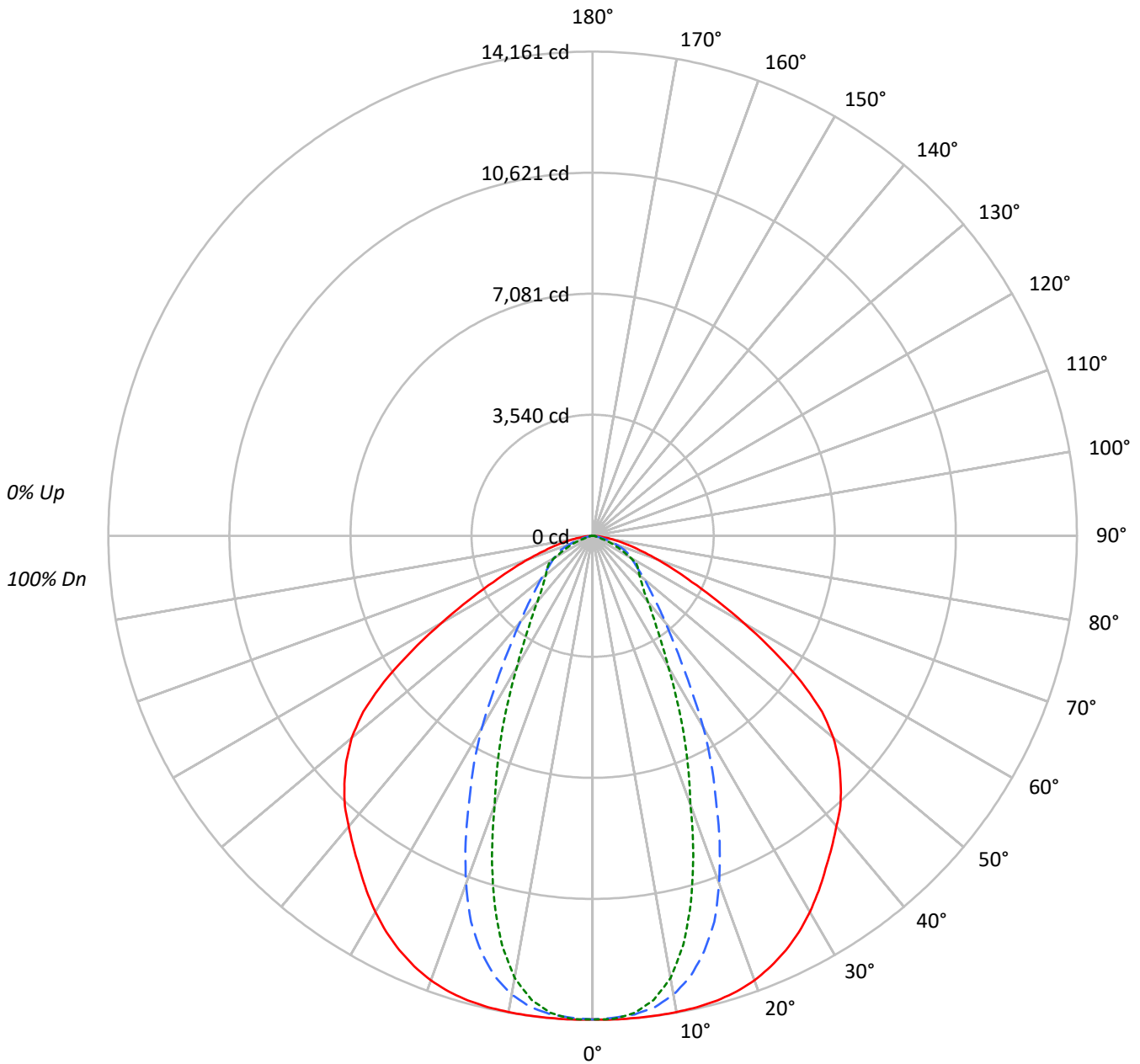
Lumens per Lamp: N/A
Luminaire Lumens: 19952.0 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 133.8
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	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°	87019	87019	87019
5°	87427	86763	86512
10°	88344	85099	81992
15°	89605	80179	70697
20°	90571	70834	54735
25°	90752	57841	42412
30°	90243	45939	31390
35°	89213	34041	24409
40°	89073	26435	20145
45°	89261	21755	17895
50°	87995	18816	17069
55°	79882	16773	17246
60°	62802	16029	15714
65°	46646	15535	11825
70°	35775	12438	7219
75°	27234	8869	3983
80°	19999	4123	3220
85°	12512	3550	2865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1329.2	6.7
10°-20°	3499.0	17.5
20°-30°	4225.4	21.2
30°-40°	3778.0	18.9
40°-50°	2958.5	14.8
50°-60°	2235.3	11.2
60°-70°	1327.6	6.7
70°-80°	510.2	2.6
80°-90°	88.6	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°	9053.6	45.4
0°-40°	12831.7	64.3
0°-60°	18025.5	90.3
0°-90°	19952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14148	14148	14148	14148	14148	
5°	14160	14098	14052	14034	14012	###
15°	14072	13608	12591	11539	11102	3976
25°	13372	11799	8523	6720	6249	6157
35°	11881	8455	4534	3535	3251	7451
45°	10262	4372	2501	2113	2057	7899
55°	7449	2372	1564	1558	1608	6542
65°	3205	1332	1067	890	812	3302
75°	1146	640	373	184	168	1255
85°	177	62	50	44	41	236
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14147.6	14147.6	14147.6	14147.6	14147.6
2.5°	14160.8	14114.0	14110.5	14140.5	14144.9
5°	14159.9	14098.2	14052.3	14033.8	14011.7
7.5°	14155.5	14062.0	13907.6	13759.4	13690.6
10°	14144.9	13979.1	13625.3	13288.3	13127.8
12.5°	14122.0	13830.9	13206.3	12587.0	12250.0
15°	14071.7	13607.7	12591.4	11539.0	11102.3
17.5°	13980.8	13299.8	11838.0	10352.4	9790.5
20°	13837.0	12908.1	10821.7	8999.1	8362.2
22.5°	13630.6	12396.4	9702.2	7780.9	7271.8
25°	13372.1	11799.2	8522.8	6719.6	6249.4
27.5°	13065.1	11102.3	7506.5	5731.5	5268.4
30°	12706.1	10288.0	6468.2	4798.2	4419.7
32.5°	12304.7	9430.5	5384.0	4086.3	3774.9
35°	11881.2	8454.8	4533.5	3534.9	3250.8
37.5°	11482.5	7410.3	3839.3	3047.1	2847.7
40°	11093.5	6312.9	3292.3	2661.5	2508.9
42.5°	10726.5	5263.1	2874.2	2338.7	2239.0
45°	10261.6	4372.1	2501.0	2112.8	2057.3
47.5°	9768.4	3690.2	2204.6	1929.3	1909.9
50°	9195.9	3143.2	1966.4	1769.7	1783.8
52.5°	8453.1	2710.9	1740.5	1656.7	1698.2
55°	7449.2	2372.2	1564.1	1557.9	1608.2
57.5°	6273.2	2048.4	1424.7	1463.5	1520.0
60°	5105.2	1788.2	1303.0	1359.4	1277.4
62.5°	4078.3	1549.1	1187.4	1084.2	1013.6
65°	3205.0	1332.1	1067.4	890.1	812.5
67.5°	2555.7	1130.1	898.1	708.4	644.0
70°	1989.3	950.1	691.6	532.0	401.4
72.5°	1524.4	794.0	539.9	302.6	228.5
75°	1146.0	640.5	373.2	184.4	167.6
77.5°	816.9	475.5	199.4	133.2	123.5
80°	564.6	305.2	116.4	96.2	90.9
82.5°	350.2	147.3	79.4	68.8	64.4
85°	177.3	61.8	50.3	44.1	40.6
87.5°	59.1	30.0	22.9	21.2	19.4
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)