

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: P565430

Luminaire Tested: **VHB-12-N-UNV-L740-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565430
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-L740-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 4000K,
70 CRI LEDS

Light Source: -
Ballast/Driver: -

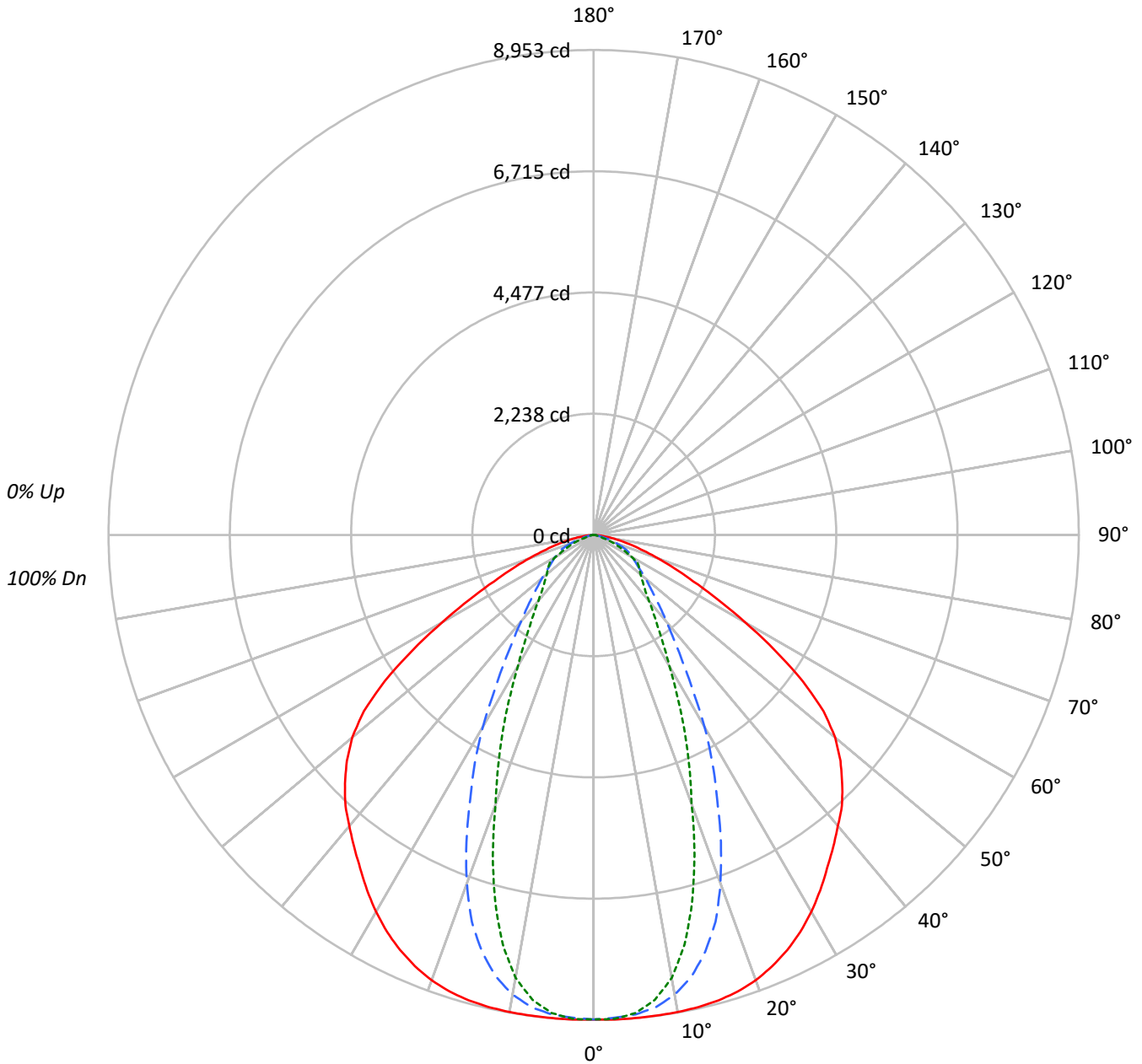
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12615.0 lumens
Efficiency: N/A
Efficacy: 145.0 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

TEST NUMBER: P565430
CATALOG NUMBER: VHB-12-N-UNV-L740-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P565430

CATALOG NUMBER: VHB-12-N-UNV-L740-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
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°	55019	55019	55019
5°	55278	54857	54699
10°	55858	53805	51841
15°	56655	50694	44699
20°	57265	44786	34608
25°	57380	36571	26816
30°	57057	29046	19847
35°	56406	21523	15433
40°	56317	16714	12737
45°	56436	13755	11314
50°	55637	11897	10792
55°	50507	10605	10904
60°	39707	10134	9936
65°	29492	9823	7476
70°	22620	7864	4564
75°	17220	5606	2519
80°	12645	2607	2037
85°	7911	2244	1814



TEST NUMBER: P565430

CATALOG NUMBER: VHB-12-N-UNV-L740-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	840.4	6.7
10°-20°	2212.3	17.5
20°-30°	2671.6	21.2
30°-40°	2388.7	18.9
40°-50°	1870.6	14.8
50°-60°	1413.3	11.2
60°-70°	839.4	6.7
70°-80°	322.6	2.6
80°-90°	56.1	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°	5724.3	45.4
0°-40°	8113.0	64.3
0°-60°	11396.9	90.3
0°-90°	12615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8945	8945	8945	8945	8945	
5°	8953	8914	8885	8873	8859	854
15°	8897	8604	7961	7296	7020	2514
25°	8455	7460	5389	4249	3951	3893
35°	7512	5346	2866	2235	2055	4711
45°	6488	2764	1581	1336	1301	4994
55°	4710	1500	989	985	1017	4136
65°	2026	842	675	563	514	2088
75°	725	405	236	117	106	793
85°	112	39	32	28	26	149
90°	0	0	0	0	0	



TEST NUMBER: P565430

CATALOG NUMBER: VHB-12-N-UNV-L740-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8945.0	8945.0	8945.0	8945.0	8945.0
2.5°	8953.4	8923.9	8921.6	8940.6	8943.4
5°	8952.9	8913.8	8884.8	8873.1	8859.1
7.5°	8950.1	8890.9	8793.3	8699.6	8656.1
10°	8943.4	8838.5	8614.8	8401.8	8300.3
12.5°	8928.9	8744.8	8349.9	7958.3	7745.3
15°	8897.1	8603.7	7961.1	7295.7	7019.6
17.5°	8839.6	8409.0	7484.8	6545.5	6190.2
20°	8748.7	8161.4	6842.2	5689.9	5287.2
22.5°	8618.2	7837.9	6134.4	4919.6	4597.7
25°	8454.8	7460.2	5388.7	4248.6	3951.3
27.5°	8260.7	7019.6	4746.1	3623.9	3331.0
30°	8033.6	6504.8	4089.6	3033.7	2794.5
32.5°	7779.9	5962.6	3404.1	2583.6	2386.7
35°	7512.1	5345.7	2866.4	2235.0	2055.4
37.5°	7260.0	4685.3	2427.4	1926.6	1800.5
40°	7014.0	3991.4	2081.6	1682.8	1586.3
42.5°	6782.0	3327.7	1817.2	1478.7	1415.6
45°	6488.0	2764.3	1581.3	1335.9	1300.7
47.5°	6176.2	2333.2	1393.9	1219.9	1207.6
50°	5814.3	1987.4	1243.3	1118.9	1127.8
52.5°	5344.6	1714.0	1100.5	1047.5	1073.7
55°	4709.9	1499.9	988.9	985.0	1016.8
57.5°	3966.3	1295.2	900.8	925.3	961.0
60°	3227.8	1130.6	823.8	859.5	807.7
62.5°	2578.6	979.5	750.8	685.5	640.9
65°	2026.4	842.2	674.9	562.8	513.7
67.5°	1615.9	714.5	567.8	447.9	407.2
70°	1257.8	600.7	437.3	336.3	253.8
72.5°	963.8	502.0	341.4	191.3	144.5
75°	724.6	404.9	235.9	116.6	106.0
77.5°	516.5	300.6	126.1	84.2	78.1
80°	357.0	193.0	73.6	60.8	57.5
82.5°	221.4	93.1	50.2	43.5	40.7
85°	112.1	39.0	31.8	27.9	25.7
87.5°	37.4	19.0	14.5	13.4	12.3
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)