

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: P565436

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

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-W-UNV-L740-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

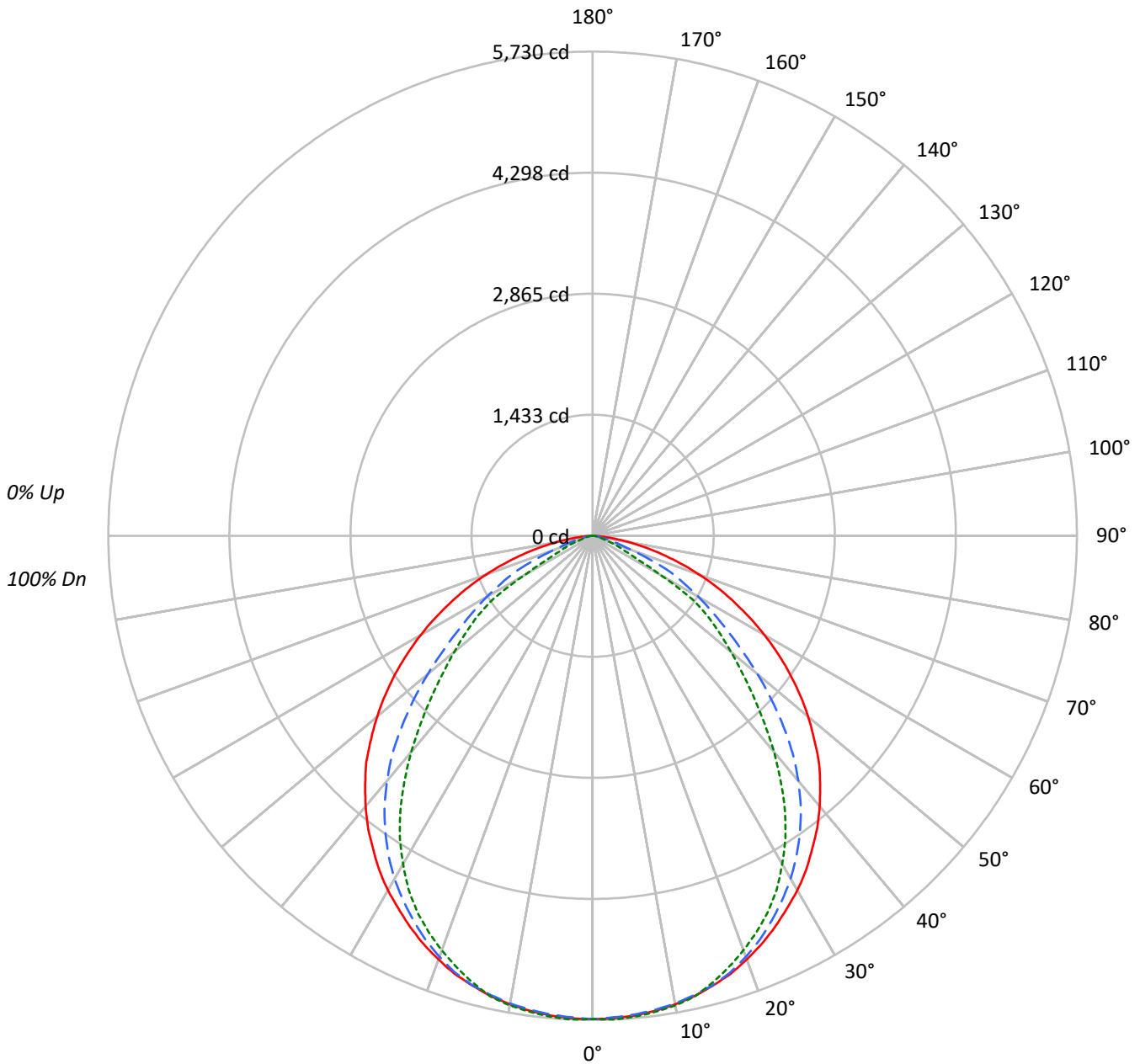
Lumens per Lamp: N/A
Luminaire Lumens: 12865.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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: P565436

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

Luminous Intensity Polar Plot





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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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65																			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57																			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50																			
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44																			
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	39																			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36																			
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32																			
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35181	35181	35181
5°	35187	35115	35276
10°	35174	35098	35242
15°	35090	35053	34872
20°	34921	34704	34162
25°	34662	34072	33325
30°	34410	33287	31863
35°	34000	32121	29793
40°	33552	30393	26807
45°	32942	27797	23423
50°	31853	24337	20461
55°	30553	20731	17861
60°	28863	17781	11402
65°	26744	14831	6046
70°	24140	8429	3917
75°	20281	5162	2436
80°	15412	2607	2136
85°	9365	2371	1920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.5	4.2
10°-20°	1549.3	12.0
20°-30°	2309.5	18.0
30°-40°	2659.7	20.7
40°-50°	2475.3	19.2
50°-60°	1883.5	14.6
60°-70°	1011.0	7.9
70°-80°	372.0	2.9
80°-90°	63.3	0.5
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°	4400.2	34.2
0°-40°	7060.0	54.9
0°-60°	11418.7	88.8
0°-90°	12865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5720	5720	5720	5720	5720	
5°	5699	5683	5687	5707	5713	542
15°	5511	5502	5505	5494	5476	1555
25°	5107	5103	5020	4949	4910	2354
35°	4528	4473	4278	4063	3968	2835
45°	3787	3605	3196	2816	2693	2910
55°	2849	2527	1933	1721	1666	2545
65°	1838	1350	1019	505	415	1822
75°	853	559	217	112	102	915
85°	133	43	34	29	27	177
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5719.7	5719.7	5719.7	5719.7	5719.7
2.5°	5715.7	5698.3	5704.1	5722.6	5730.2
5°	5698.9	5682.6	5687.3	5707.0	5713.4
7.5°	5671.1	5655.4	5658.9	5677.4	5683.8
10°	5631.7	5615.4	5619.5	5637.5	5642.7
12.5°	5578.4	5563.3	5566.8	5579.5	5585.3
15°	5510.6	5501.9	5504.8	5494.4	5476.4
17.5°	5434.7	5422.0	5418.5	5372.1	5353.0
20°	5335.1	5330.4	5302.0	5244.7	5219.2
22.5°	5230.2	5221.5	5172.3	5103.3	5072.6
25°	5107.4	5103.3	5020.5	4949.2	4910.4
27.5°	4975.3	4965.4	4858.8	4769.6	4716.9
30°	4844.9	4820.6	4686.8	4561.6	4486.3
32.5°	4697.2	4651.4	4491.5	4331.7	4244.8
35°	4528.0	4473.0	4277.8	4062.8	3967.8
37.5°	4364.1	4281.3	4046.0	3777.2	3655.6
40°	4178.7	4059.9	3785.3	3473.1	3338.7
42.5°	3983.5	3838.6	3507.8	3144.6	3006.7
45°	3787.1	3604.6	3195.6	2816.1	2692.7
47.5°	3553.6	3360.1	2871.2	2502.7	2396.7
50°	3328.8	3102.9	2543.3	2210.7	2138.3
52.5°	3093.6	2819.6	2224.6	1963.9	1893.8
55°	2849.1	2527.0	1933.2	1721.2	1665.6
57.5°	2603.5	2226.4	1674.8	1500.5	1400.8
60°	2346.3	1928.0	1445.4	1219.5	926.9
62.5°	2093.1	1617.5	1216.6	764.7	589.8
65°	1837.6	1349.8	1019.0	504.6	415.4
67.5°	1593.7	1090.9	727.1	365.6	311.1
70°	1342.3	892.2	468.7	261.9	217.8
72.5°	1090.3	717.8	321.5	172.1	139.6
75°	853.4	559.1	217.2	112.4	102.5
77.5°	639.6	385.8	121.1	83.4	78.2
80°	435.1	231.2	73.6	63.7	60.3
82.5°	260.7	110.7	53.3	46.9	45.2
85°	132.7	42.9	33.6	29.0	27.2
87.5°	39.4	21.4	15.1	11.6	11.0
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)