

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: P565454

Luminaire Tested: **VHB-18-N-UNV-L740-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565454
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-L740-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 4000K,
70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

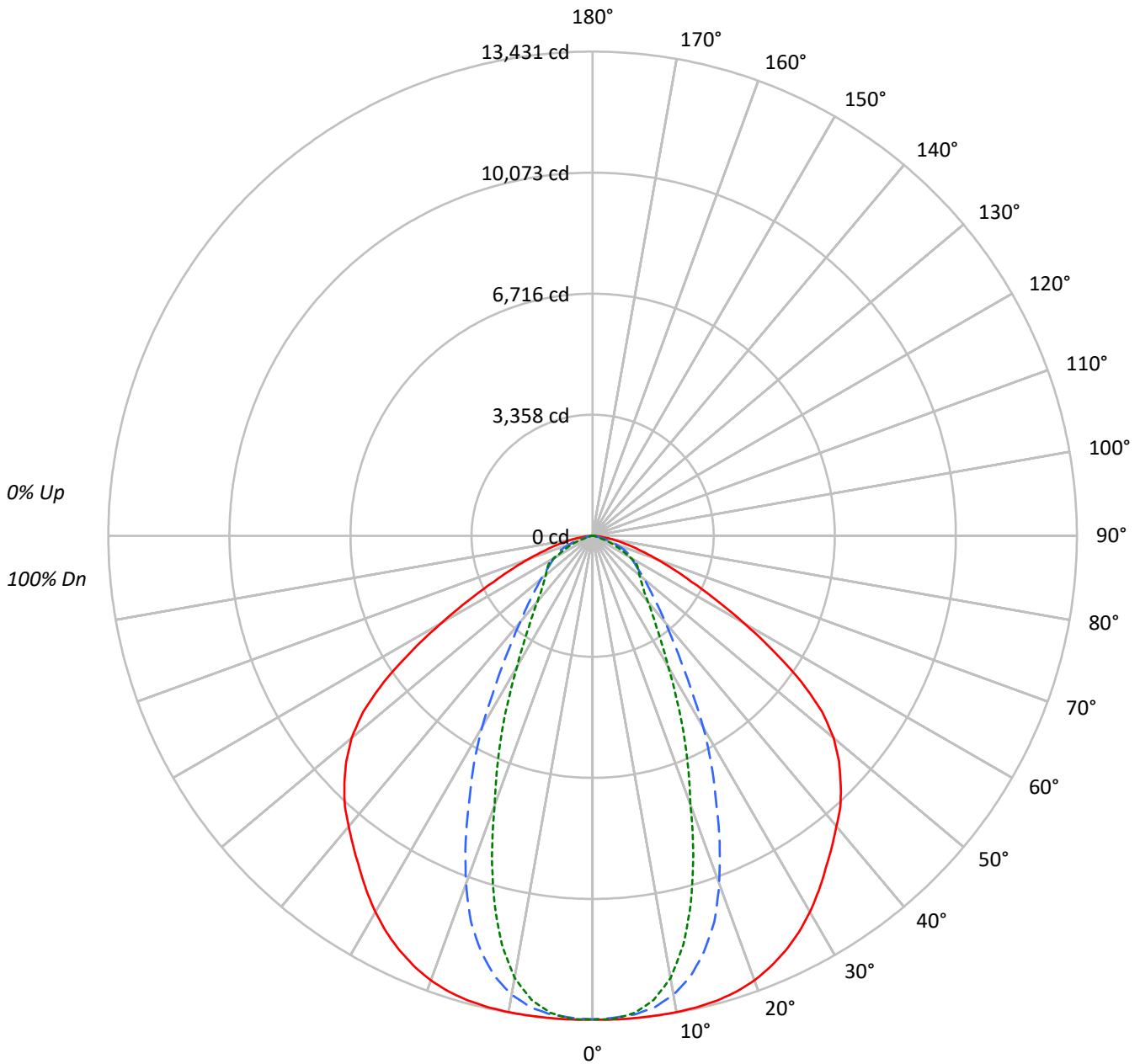
Lumens per Lamp: N/A
Luminaire Lumens: 18924.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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								
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°	82535	82535	82535
5°	82923	82293	82055
10°	83793	80715	77767
15°	84989	76048	67054
20°	85904	67185	51915
25°	86076	54861	40227
30°	85593	43572	29773
35°	84617	32288	23152
40°	84483	25073	19107
45°	84661	20634	16973
50°	83461	17847	16190
55°	75765	15908	16358
60°	59567	15202	14905
65°	44241	14734	11215
70°	33932	11797	6846
75°	25830	8410	3779
80°	18968	3910	3053
85°	11870	3366	2717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1260.7	6.7
10°-20°	3318.7	17.5
20°-30°	4007.7	21.2
30°-40°	3583.4	18.9
40°-50°	2806.0	14.8
50°-60°	2120.2	11.2
60°-70°	1259.2	6.7
70°-80°	483.9	2.6
80°-90°	84.1	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°	8587.1	45.4
0°-40°	12170.5	64.3
0°-60°	17096.8	90.3
0°-90°	18924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13419	13419	13419	13419	13419	
5°	13430	13372	13328	13311	13290	###
15°	13347	12907	11943	10944	10530	3771
25°	12683	11191	8084	6373	5927	5840
35°	11269	8019	4300	3353	3083	7067
45°	9733	4147	2372	2004	1951	7492
55°	7065	2250	1484	1478	1525	6205
65°	3040	1264	1012	844	771	3132
75°	1087	608	354	175	159	1190
85°	168	59	48	42	38	224
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13418.6	13418.6	13418.6	13418.6	13418.6
2.5°	13431.2	13386.8	13383.5	13411.9	13416.1
5°	13430.3	13371.8	13328.3	13310.7	13289.8
7.5°	13426.2	13337.5	13191.0	13050.5	12985.2
10°	13416.1	13258.8	12923.3	12603.7	12451.4
12.5°	13394.4	13118.2	12525.8	11938.5	11618.8
15°	13346.7	12906.6	11942.6	10944.4	10530.2
17.5°	13260.5	12614.5	11228.1	9819.0	9286.0
20°	13124.1	12243.0	10264.2	8535.5	7931.4
22.5°	12928.3	11757.7	9202.4	7380.0	6897.2
25°	12683.1	11191.3	8083.6	6373.4	5927.4
27.5°	12392.0	10530.2	7119.7	5436.2	4996.9
30°	12051.4	9757.9	6134.9	4551.0	4192.0
32.5°	11670.7	8944.6	5106.6	3875.7	3580.4
35°	11269.1	8019.2	4300.0	3352.8	3083.3
37.5°	10890.9	7028.5	3641.4	2890.1	2701.0
40°	10521.9	5987.6	3122.7	2524.4	2379.7
42.5°	10173.8	4991.9	2726.1	2218.2	2123.6
45°	9732.8	4146.8	2372.1	2004.0	1951.3
47.5°	9265.1	3500.0	2091.0	1829.9	1811.5
50°	8722.1	2981.3	1865.1	1678.5	1691.9
52.5°	8017.5	2571.3	1650.9	1571.4	1610.7
55°	7065.3	2250.0	1483.5	1477.7	1525.4
57.5°	5950.0	1942.9	1351.3	1388.1	1441.7
60°	4842.2	1696.1	1235.8	1289.4	1211.6
62.5°	3868.2	1469.3	1126.2	1028.3	961.4
65°	3039.8	1263.5	1012.4	844.3	770.6
67.5°	2424.0	1071.9	851.8	671.9	610.8
70°	1886.8	901.2	656.0	504.5	380.7
72.5°	1445.9	753.1	512.1	287.0	216.7
75°	1086.9	607.5	353.9	174.9	159.0
77.5°	774.8	451.0	189.1	126.3	117.1
80°	535.5	289.5	110.4	91.2	86.2
82.5°	332.2	139.7	75.3	65.3	61.1
85°	168.2	58.6	47.7	41.8	38.5
87.5°	56.1	28.4	21.8	20.1	18.4
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)