

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: P565460

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

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565460
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-18-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

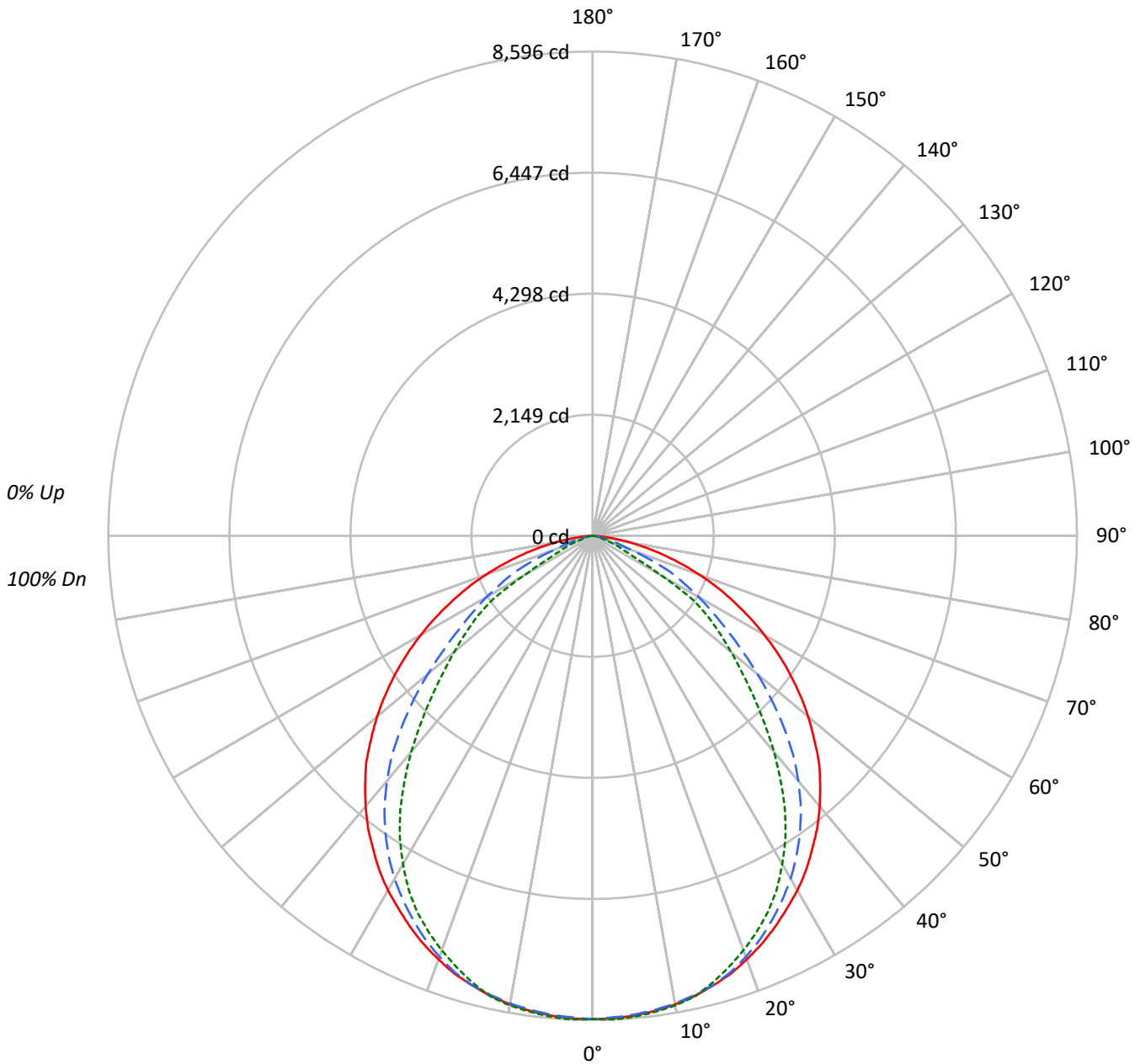
Lumens per Lamp: N/A
Luminaire Lumens: 19300.0 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	52778	52778	52778
5°	52786	52679	52920
10°	52767	52653	52870
15°	52642	52587	52316
20°	52388	52064	51250
25°	52000	51115	49995
30°	51622	49937	47801
35°	51006	48187	44696
40°	50335	45597	40216
45°	49420	41701	35139
50°	47786	36509	30696
55°	45836	31101	26795
60°	43300	26675	17107
65°	40122	22250	9070
70°	36214	12644	5877
75°	30424	7745	3655
80°	23119	3910	3202
85°	14044	3557	2879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.4	4.2
10°-20°	2324.2	12.0
20°-30°	3464.6	18.0
30°-40°	3990.1	20.7
40°-50°	3713.4	19.2
50°-60°	2825.6	14.6
60°-70°	1516.7	7.9
70°-80°	558.0	2.9
80°-90°	94.9	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°	6601.2	34.2
0°-40°	10591.4	54.9
0°-60°	17130.4	88.8
0°-90°	19300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8581	8581	8581	8581	8581	
5°	8549	8525	8532	8562	8571	813
15°	8267	8254	8258	8243	8216	2333
25°	7662	7656	7532	7425	7367	3532
35°	6793	6710	6418	6095	5952	4252
45°	5681	5408	4794	4225	4040	4366
55°	4274	3791	2900	2582	2499	3818
65°	2757	2025	1529	757	623	2734
75°	1280	839	326	169	154	1372
85°	199	64	50	44	41	265
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8580.7	8580.7	8580.7	8580.7	8580.7
2.5°	8574.6	8548.5	8557.2	8585.0	8596.3
5°	8549.4	8525.1	8532.0	8561.6	8571.1
7.5°	8507.7	8484.2	8489.4	8517.3	8526.8
10°	8448.6	8424.3	8430.3	8457.3	8465.1
12.5°	8368.6	8346.0	8351.3	8370.4	8379.1
15°	8267.0	8253.9	8258.3	8242.6	8215.7
17.5°	8153.1	8134.0	8128.8	8059.2	8030.6
20°	8003.6	7996.7	7954.1	7868.0	7829.8
22.5°	7846.3	7833.3	7759.4	7656.0	7609.9
25°	7662.1	7656.0	7531.7	7424.8	7366.6
27.5°	7463.9	7449.1	7289.2	7155.4	7076.3
30°	7268.3	7231.8	7031.1	6843.4	6730.4
32.5°	7046.7	6978.1	6738.2	6498.3	6368.0
35°	6792.9	6710.4	6417.5	6095.1	5952.5
37.5°	6547.0	6422.7	6069.8	5666.6	5484.1
40°	6268.9	6090.7	5678.8	5210.3	5008.7
42.5°	5976.0	5758.7	5262.4	4717.5	4510.7
45°	5681.4	5407.6	4794.0	4224.7	4039.6
47.5°	5331.1	5040.8	4307.3	3754.5	3595.5
50°	4993.9	4654.9	3815.4	3316.5	3207.9
52.5°	4641.0	4229.9	3337.4	2946.3	2841.1
55°	4274.3	3791.0	2900.2	2582.1	2498.7
57.5°	3905.8	3340.0	2512.6	2251.0	2101.5
60°	3519.9	2892.4	2168.4	1829.5	1390.6
62.5°	3140.1	2426.5	1825.1	1147.2	884.8
65°	2756.8	2025.0	1528.8	757.0	623.2
67.5°	2390.9	1636.5	1090.7	548.4	466.7
70°	2013.7	1338.4	703.1	392.8	326.8
72.5°	1635.7	1076.8	482.4	258.1	209.5
75°	1280.2	838.7	325.9	168.6	153.8
77.5°	959.5	578.8	181.6	125.2	117.3
80°	652.7	346.8	110.4	95.6	90.4
82.5°	391.1	166.0	80.0	70.4	67.8
85°	199.0	64.3	50.4	43.5	40.8
87.5°	59.1	32.2	22.6	17.4	16.5
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)