

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: P565441

Luminaire Tested: **VHB-15-N-UNV-L735-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565441
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-15-N-UNV-L735-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 3500K,
70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

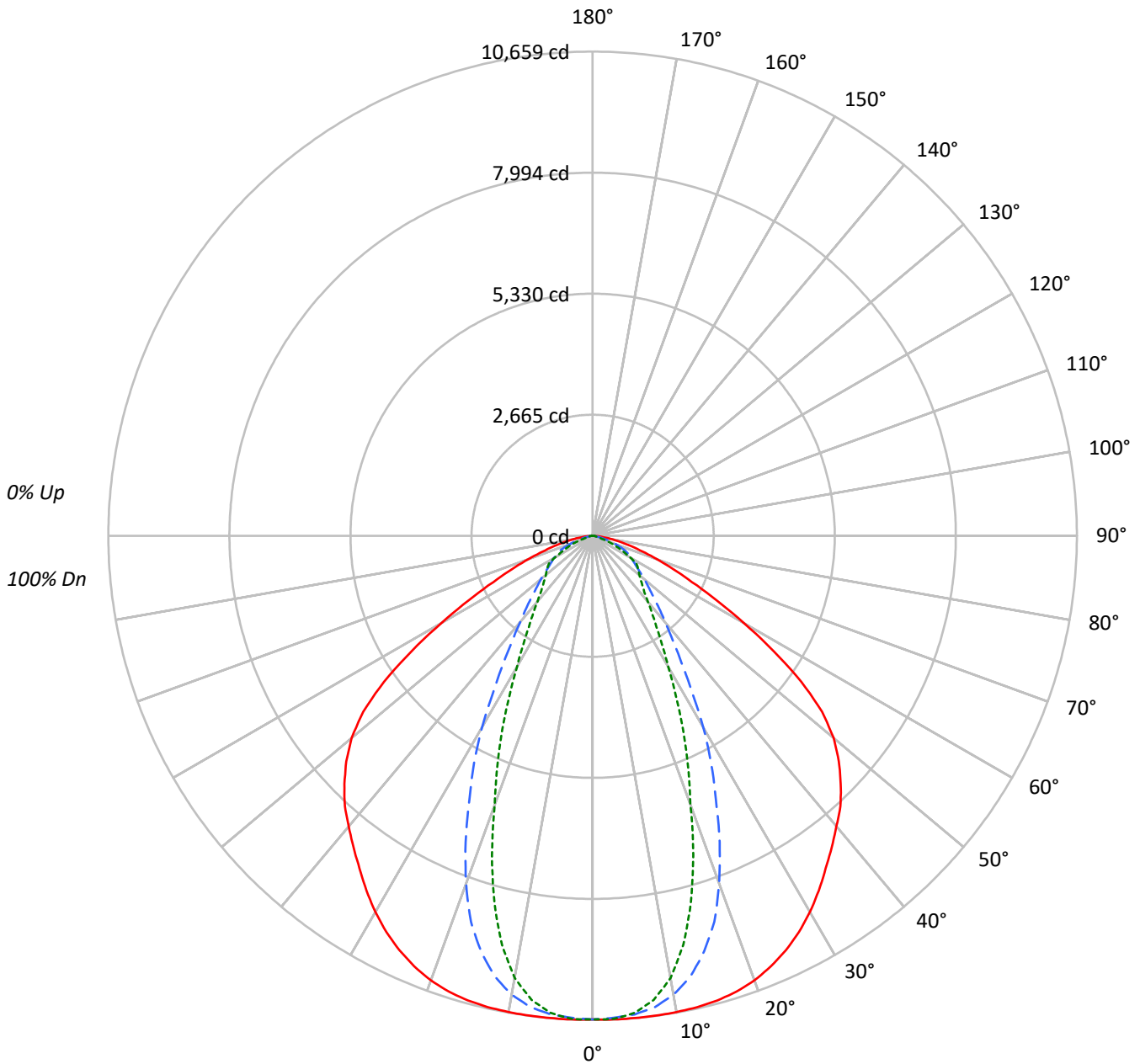
Lumens per Lamp: N/A
Luminaire Lumens: 15018.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 111.6
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	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°	65500	65500	65500
5°	65807	65307	65118
10°	66498	64055	61716
15°	67447	60351	53214
20°	68173	53317	41200
25°	68310	43537	31924
30°	67927	34578	23628
35°	67151	25623	18373
40°	67045	19897	15163
45°	67187	16375	13470
50°	66234	14163	12848
55°	60127	12625	12981
60°	47271	12065	11828
65°	35110	11694	8901
70°	26929	9362	5433
75°	20500	6676	2999
80°	15054	3106	2423
85°	9421	2668	2152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.5	6.7
10°-20°	2633.7	17.5
20°-30°	3180.5	21.2
30°-40°	2843.8	18.9
40°-50°	2226.9	14.8
50°-60°	1682.6	11.2
60°-70°	999.3	6.7
70°-80°	384.1	2.6
80°-90°	66.7	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°	6814.7	45.4
0°-40°	9658.5	64.3
0°-60°	13567.9	90.3
0°-90°	15018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10649	10649	10649	10649	10649	
5°	10658	10612	10577	10563	10547	###
15°	10592	10243	9478	8685	8357	2993
25°	10065	8881	6415	5058	4704	4634
35°	8943	6364	3412	2661	2447	5608
45°	7724	3291	1882	1590	1548	5945
55°	5607	1786	1177	1173	1210	4924
65°	2412	1003	804	670	612	2486
75°	863	482	281	139	126	944
85°	134	46	38	33	30	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10649.0	10649.0	10649.0	10649.0	10649.0
2.5°	10658.9	10623.7	10621.1	10643.7	10647.0
5°	10658.3	10611.8	10577.3	10563.3	10546.7
7.5°	10654.9	10584.6	10468.4	10356.8	10305.0
10°	10647.0	10522.1	10255.9	10002.2	9881.4
12.5°	10629.7	10410.6	9940.5	9474.3	9220.6
15°	10591.9	10242.6	9477.6	8685.4	8356.8
17.5°	10523.5	10010.8	8910.5	7792.3	7369.3
20°	10415.2	9716.0	8145.6	6773.7	6294.3
22.5°	10259.8	9330.9	7302.9	5856.7	5473.6
25°	10065.3	8881.3	6415.1	5057.9	4704.0
27.5°	9834.2	8356.8	5650.2	4314.2	3965.6
30°	9564.0	7743.9	4868.6	3611.6	3326.8
32.5°	9261.8	7098.4	4052.5	3075.8	2841.4
35°	8943.1	6364.0	3412.4	2660.7	2446.9
37.5°	8642.9	5577.8	2889.8	2293.5	2143.5
40°	8350.1	4751.8	2478.1	2003.4	1888.5
42.5°	8073.9	3961.6	2163.4	1760.3	1685.3
45°	7723.9	3290.9	1882.5	1590.3	1548.5
47.5°	7352.7	2777.6	1659.4	1452.2	1437.6
50°	6921.8	2365.9	1480.1	1332.0	1342.7
52.5°	6362.7	2040.5	1310.1	1247.0	1278.2
55°	5607.0	1785.6	1177.3	1172.7	1210.5
57.5°	4721.9	1541.9	1072.4	1101.6	1144.1
60°	3842.7	1346.0	980.8	1023.3	961.5
62.5°	3069.8	1166.0	893.8	816.1	763.0
65°	2412.4	1002.7	803.5	670.0	611.6
67.5°	1923.7	850.6	676.0	533.2	484.7
70°	1497.4	715.2	520.6	400.4	302.1
72.5°	1147.4	597.6	406.4	227.8	172.0
75°	862.6	482.1	280.9	138.8	126.2
77.5°	614.9	357.9	150.1	100.3	93.0
80°	425.0	229.8	87.7	72.4	68.4
82.5°	263.6	110.9	59.8	51.8	48.5
85°	133.5	46.5	37.8	33.2	30.5
87.5°	44.5	22.6	17.3	15.9	14.6
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)