

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: P565485

Luminaire Tested: **VHB-9-W-UNV-L750-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565485  
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-9-W-UNV-L750-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 5000K, 70 CRI LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

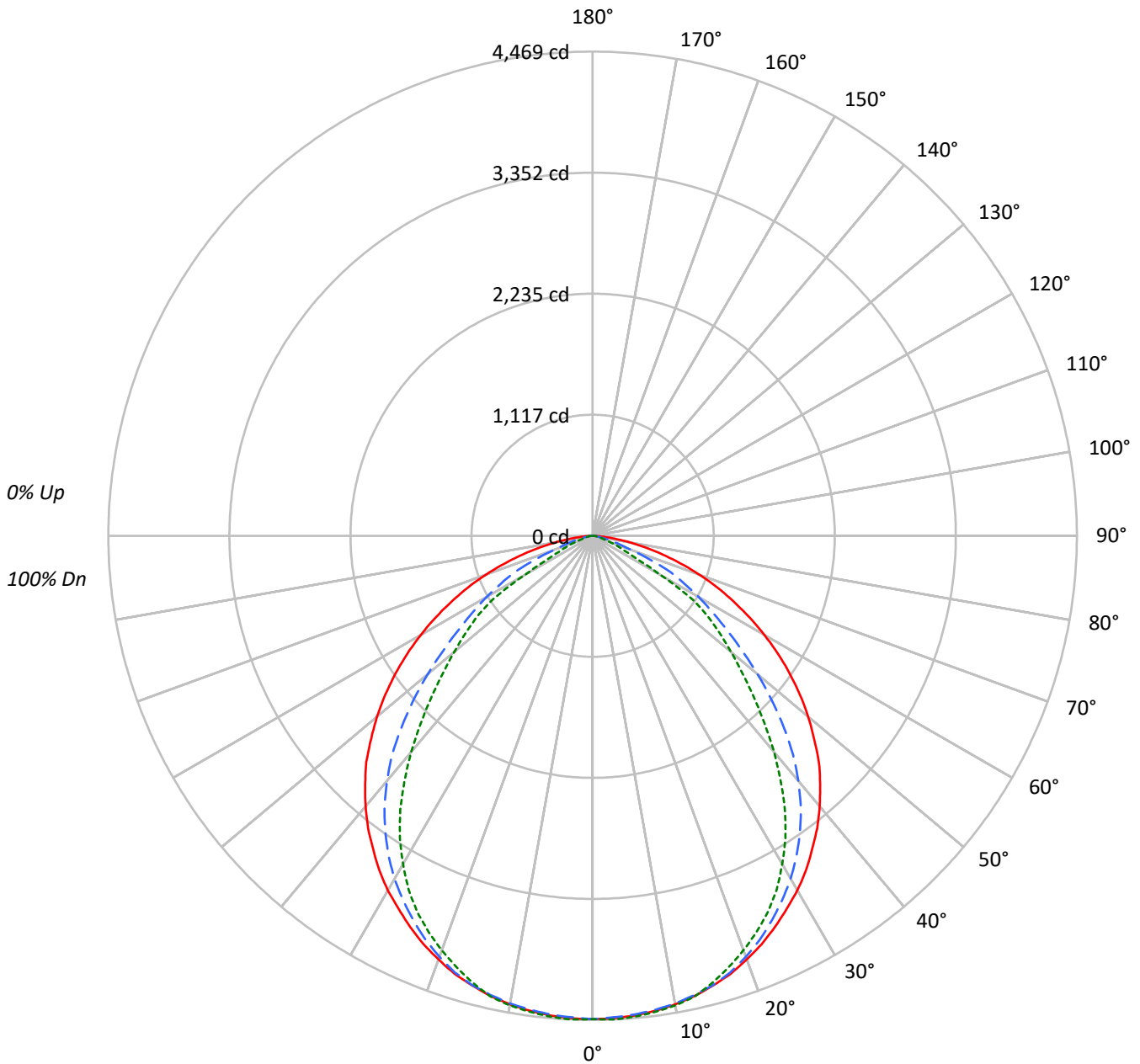
Lumens per Lamp: N/A  
Luminaire Lumens: 10034.0 lumens  
Efficiency: N/A  
Efficacy: 155.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	27439	27439	27439
5°	27443	27388	27513
10°	27434	27374	27487
15°	27369	27339	27199
20°	27237	27068	26645
25°	27035	26574	25992
30°	26838	25962	24852
35°	26518	25052	23237
40°	26169	23706	20908
45°	25693	21680	18269
50°	24844	18981	15959
55°	23830	16169	13931
60°	22512	13869	8894
65°	20860	11568	4715
70°	18827	6573	3055
75°	15818	4026	1901
80°	12018	2033	1665
85°	7304	1849	1496



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.4	4.2
10°-20°	1208.3	12.0
20°-30°	1801.3	18.0
30°-40°	2074.4	20.7
40°-50°	1930.6	19.2
50°-60°	1469.0	14.6
60°-70°	788.5	7.9
70°-80°	290.1	2.9
80°-90°	49.3	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°	3432.0	34.2
0°-40°	5506.4	54.9
0°-60°	8906.0	88.8
0°-90°	10034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4461	4461	4461	4461	4461	
5°	4445	4432	4436	4451	4456	423
15°	4298	4291	4293	4285	4271	1213
25°	3984	3980	3916	3860	3830	1836
35°	3532	3489	3336	3169	3095	2211
45°	2954	2811	2492	2196	2100	2270
55°	2222	1971	1508	1342	1299	1985
65°	1433	1053	795	394	324	1421
75°	666	436	169	88	80	713
85°	104	33	26	23	21	138
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4461.1	4461.1	4461.1	4461.1	4461.1
2.5°	4457.9	4444.4	4448.9	4463.3	4469.2
5°	4444.8	4432.2	4435.8	4451.1	4456.1
7.5°	4423.1	4410.9	4413.6	4428.1	4433.1
10°	4392.4	4379.7	4382.9	4396.9	4401.0
12.5°	4350.8	4339.1	4341.8	4351.7	4356.2
15°	4298.0	4291.2	4293.4	4285.3	4271.3
17.5°	4238.8	4228.8	4226.1	4190.0	4175.1
20°	4161.1	4157.4	4135.3	4090.6	4070.7
22.5°	4079.3	4072.5	4034.1	3980.3	3956.4
25°	3983.5	3980.3	3915.7	3860.1	3829.8
27.5°	3880.5	3872.8	3789.6	3720.0	3678.9
30°	3778.8	3759.8	3655.4	3557.8	3499.1
32.5°	3663.6	3627.9	3503.2	3378.5	3310.7
35°	3531.6	3488.7	3336.4	3168.8	3094.7
37.5°	3403.8	3339.1	3155.7	2946.0	2851.1
40°	3259.2	3166.5	2952.4	2708.8	2604.0
42.5°	3106.9	2993.9	2735.9	2452.6	2345.1
45°	2953.7	2811.4	2492.4	2196.4	2100.2
47.5°	2771.6	2620.7	2239.3	1952.0	1869.3
50°	2596.3	2420.1	1983.6	1724.2	1667.8
52.5°	2412.9	2199.1	1735.1	1531.8	1477.1
55°	2222.2	1971.0	1507.8	1342.4	1299.1
57.5°	2030.6	1736.4	1306.3	1170.3	1092.6
60°	1830.0	1503.7	1127.4	951.1	723.0
62.5°	1632.5	1261.6	948.9	596.4	460.0
65°	1433.3	1052.8	794.8	393.6	324.0
67.5°	1243.0	850.8	567.1	285.1	242.6
70°	1046.9	695.8	365.5	204.2	169.9
72.5°	850.4	559.8	250.8	134.2	108.9
75°	665.6	436.0	169.4	87.7	80.0
77.5°	498.8	300.9	94.4	65.1	61.0
80°	339.3	180.3	57.4	49.7	47.0
82.5°	203.3	86.3	41.6	36.6	35.2
85°	103.5	33.4	26.2	22.6	21.2
87.5°	30.7	16.7	11.7	9.0	8.6
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)