

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: P563391

Luminaire Tested: **VHB-9-W-UNV-L935-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/3/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-9-W-UNV-L935-CD  
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

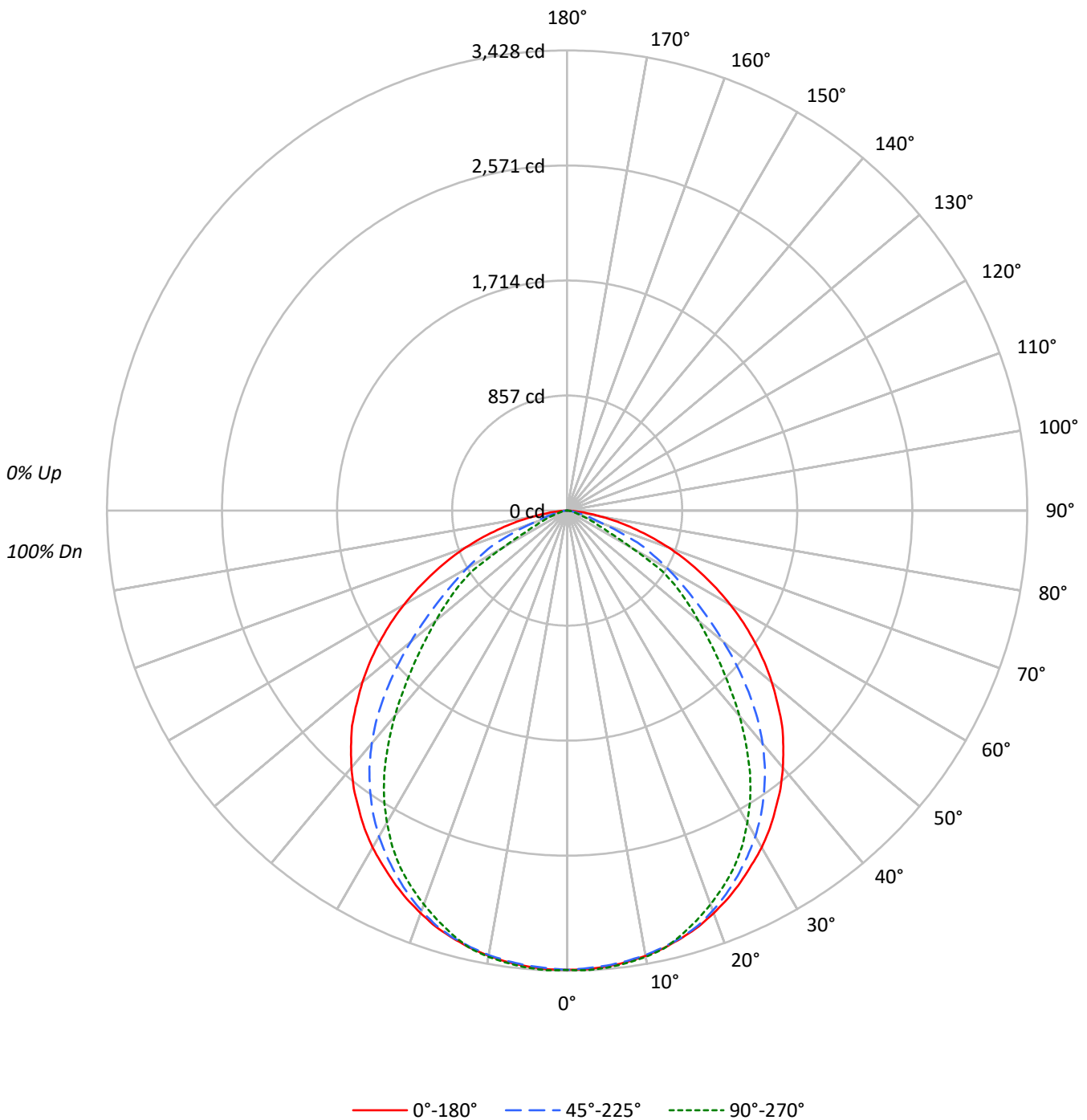
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7696.0 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): 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	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°	19938	19938	19938
5°	19941	19901	19992
10°	19934	19891	19973
15°	19887	19866	19764
20°	19791	19668	19361
25°	19644	19310	18887
30°	19502	18865	18058
35°	19269	18204	16885
40°	19016	17226	15192
45°	18670	15753	13274
50°	18053	13792	11597
55°	17316	11749	10123
60°	16358	10078	6462
65°	15157	8405	3426
70°	13681	4777	2220
75°	11494	2927	1380
80°	8735	1477	1208
85°	5309	1344	1090



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.9	4.2
10°-20°	926.8	12.0
20°-30°	1381.5	18.0
30°-40°	1591.1	20.7
40°-50°	1480.7	19.2
50°-60°	1126.7	14.6
60°-70°	604.8	7.9
70°-80°	222.5	2.9
80°-90°	37.8	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°	2632.3	34.2
0°-40°	4223.4	54.9
0°-60°	6830.8	88.8
0°-90°	7696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7696.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3422	3422	3422	3422	3422	
5°	3409	3399	3402	3414	3418	324
15°	3296	3291	3293	3287	3276	930
25°	3055	3053	3003	2961	2938	1408
35°	2709	2676	2559	2430	2374	1696
45°	2266	2156	1912	1685	1611	1741
55°	1704	1512	1156	1030	996	1522
65°	1099	808	610	302	248	1090
75°	510	334	130	67	61	547
85°	79	26	20	17	16	106
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3421.6	3421.6	3421.6	3421.6	3421.6
2.5°	3419.2	3408.8	3412.3	3423.4	3427.9
5°	3409.1	3399.4	3402.2	3414.0	3417.8
7.5°	3392.5	3383.1	3385.2	3396.3	3400.1
10°	3368.9	3359.2	3361.7	3372.4	3375.5
12.5°	3337.0	3328.0	3330.1	3337.8	3341.2
15°	3296.5	3291.3	3293.1	3286.8	3276.1
17.5°	3251.1	3243.5	3241.4	3213.7	3202.2
20°	3191.5	3188.7	3171.7	3137.4	3122.2
22.5°	3128.8	3123.5	3094.1	3052.9	3034.5
25°	3055.3	3052.9	3003.3	2960.7	2937.5
27.5°	2976.3	2970.4	2906.6	2853.3	2821.7
30°	2898.3	2883.7	2803.7	2728.8	2683.8
32.5°	2809.9	2782.5	2686.9	2591.3	2539.3
35°	2708.7	2675.8	2559.0	2430.4	2373.6
37.5°	2610.7	2561.1	2420.4	2259.6	2186.8
40°	2499.8	2428.7	2264.5	2077.6	1997.2
42.5°	2382.9	2296.3	2098.4	1881.1	1798.6
45°	2265.5	2156.3	1911.6	1684.6	1610.8
47.5°	2125.8	2010.1	1717.6	1497.1	1433.7
50°	1991.4	1856.2	1521.4	1322.5	1279.2
52.5°	1850.7	1686.7	1330.8	1174.8	1132.9
55°	1704.4	1511.7	1156.5	1029.6	996.4
57.5°	1557.4	1331.9	1001.9	897.6	838.0
60°	1403.6	1153.4	864.7	729.5	554.5
62.5°	1252.1	967.6	727.8	457.5	352.8
65°	1099.3	807.5	609.6	301.9	248.5
67.5°	953.4	652.6	434.9	218.7	186.1
70°	803.0	533.7	280.4	156.7	130.3
72.5°	652.2	429.4	192.4	102.9	83.5
75°	510.5	334.4	130.0	67.2	61.3
77.5°	382.6	230.8	72.4	49.9	46.8
80°	260.3	138.3	44.0	38.1	36.0
82.5°	156.0	66.2	31.9	28.1	27.0
85°	79.4	25.6	20.1	17.3	16.3
87.5°	23.6	12.8	9.0	6.9	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)