

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: P563393

Luminaire Tested: **VHB-9-W-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563393
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-L950-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

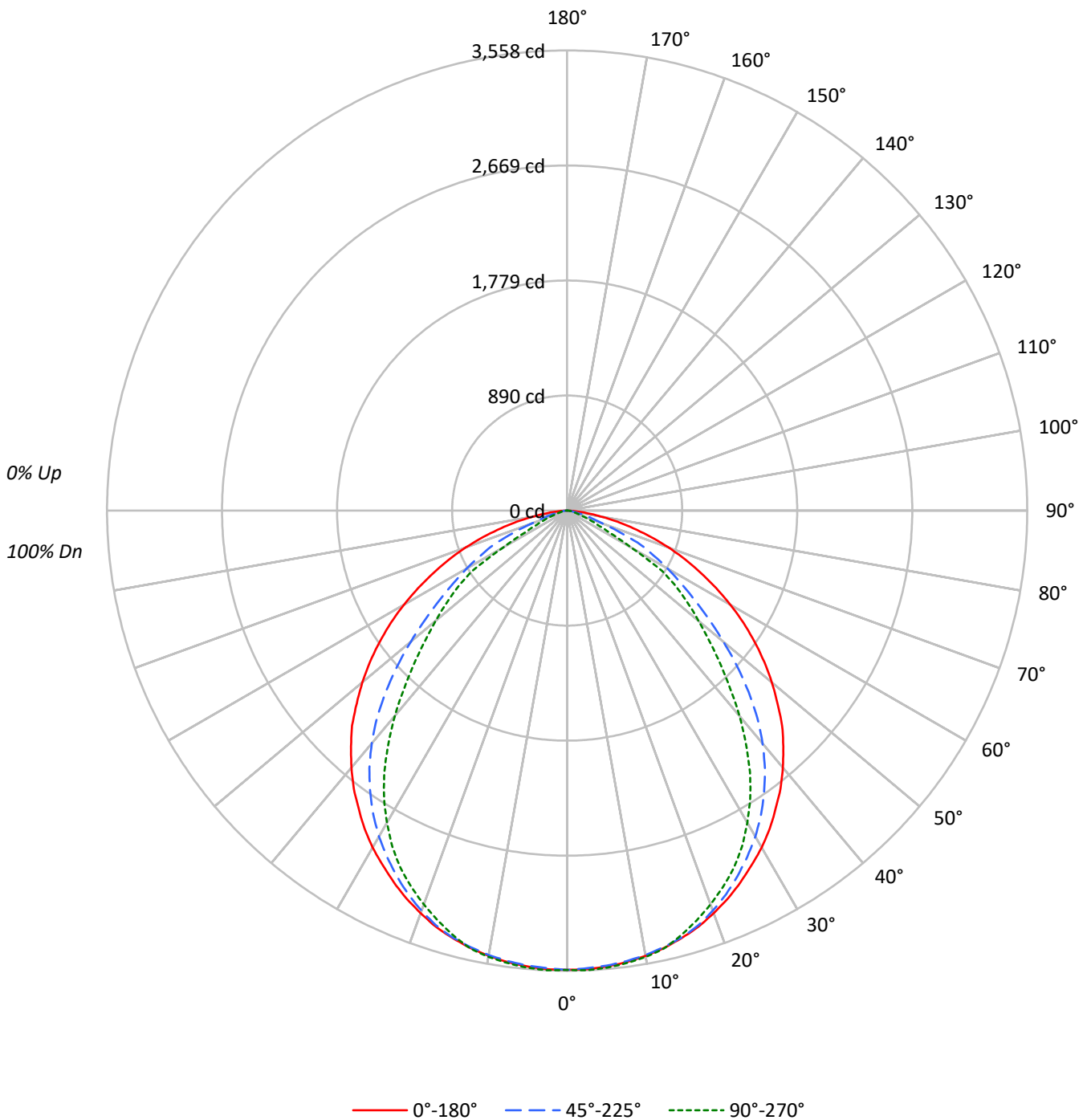
Lumens per Lamp: N/A
Luminaire Lumens: 7988.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: VHB-9-W-UNV-L950-CD

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°	20695	20695	20695
5°	20698	20656	20751
10°	20690	20646	20731
15°	20642	20620	20514
20°	20542	20415	20095
25°	20390	20043	19603
30°	20242	19581	18743
35°	20000	18895	17525
40°	19737	17879	15769
45°	19378	16352	13778
50°	18737	14315	12036
55°	17973	12195	10507
60°	16979	10460	6707
65°	15732	8724	3556
70°	14199	4958	2303
75°	11930	3037	1434
80°	9067	1534	1255
85°	5509	1391	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.2	4.2
10°-20°	962.0	12.0
20°-30°	1434.0	18.0
30°-40°	1651.4	20.7
40°-50°	1536.9	19.2
50°-60°	1169.5	14.6
60°-70°	627.8	7.9
70°-80°	231.0	2.9
80°-90°	39.3	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°	2732.2	34.2
0°-40°	4383.6	54.9
0°-60°	7090.0	88.8
0°-90°	7988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3551	3551	3551	3551	3551	
5°	3538	3528	3531	3544	3548	336
15°	3422	3416	3418	3412	3400	966
25°	3171	3169	3117	3073	3049	1462
35°	2812	2777	2656	2523	2464	1760
45°	2351	2238	1984	1749	1672	1807
55°	1769	1569	1200	1069	1034	1580
65°	1141	838	633	313	258	1131
75°	530	347	135	70	64	568
85°	82	27	21	18	17	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3551.4	3551.4	3551.4	3551.4	3551.4
2.5°	3548.9	3538.1	3541.7	3553.2	3557.9
5°	3538.5	3528.4	3531.3	3543.5	3547.5
7.5°	3521.2	3511.5	3513.7	3525.2	3529.1
10°	3496.7	3486.7	3489.2	3500.3	3503.6
12.5°	3463.6	3454.3	3456.5	3464.4	3468.0
15°	3421.6	3416.2	3418.0	3411.5	3400.4
17.5°	3374.5	3366.5	3364.4	3335.6	3323.7
20°	3312.6	3309.7	3292.1	3256.5	3240.6
22.5°	3247.5	3242.1	3211.5	3168.7	3149.6
25°	3171.2	3168.7	3117.3	3073.0	3048.9
27.5°	3089.2	3083.1	3016.9	2961.5	2928.8
30°	3008.3	2993.2	2910.1	2832.4	2785.6
32.5°	2916.5	2888.1	2788.8	2689.6	2635.6
35°	2811.5	2777.3	2656.1	2522.6	2463.6
37.5°	2709.7	2658.3	2512.2	2345.3	2269.8
40°	2594.6	2520.8	2350.4	2156.5	2073.0
42.5°	2473.4	2383.4	2178.1	1952.5	1866.9
45°	2351.4	2238.1	1984.2	1748.6	1671.9
47.5°	2206.5	2086.3	1782.7	1553.9	1488.1
50°	2066.9	1926.6	1579.1	1372.7	1327.7
52.5°	1920.9	1750.7	1381.3	1219.4	1175.9
55°	1769.1	1569.0	1200.4	1068.7	1034.2
57.5°	1616.5	1382.4	1039.9	931.7	869.8
60°	1456.9	1197.1	897.5	757.2	575.5
62.5°	1299.6	1004.3	755.4	474.8	366.2
65°	1141.0	838.1	632.7	313.3	257.9
67.5°	989.6	677.4	451.4	227.0	193.2
70°	833.4	553.9	291.0	162.6	135.2
72.5°	677.0	445.7	199.7	106.9	86.7
75°	529.9	347.1	134.9	69.8	63.7
77.5°	397.1	239.6	75.2	51.8	48.6
80°	270.2	143.5	45.7	39.6	37.4
82.5°	161.9	68.7	33.1	29.1	28.1
85°	82.4	26.6	20.8	18.0	16.9
87.5°	24.5	13.3	9.3	7.2	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)