

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: P563258

Luminaire Tested: **VHB-12-N-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-N-UNV-L950-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

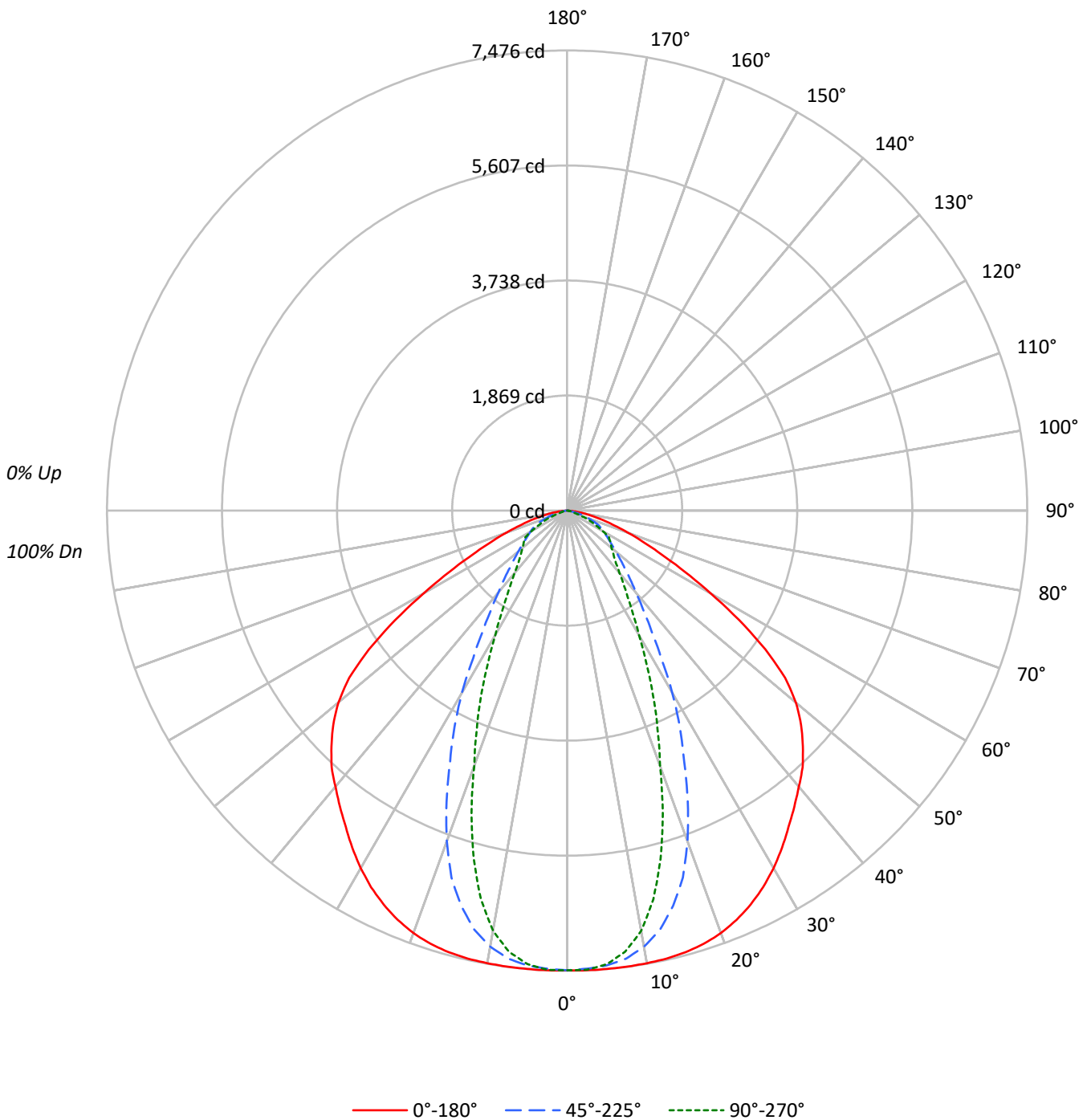
Lumens per Lamp: N/A
Luminaire Lumens: 10533.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	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°	43522	43522	43522
5°	43726	43394	43268
10°	44185	42562	41008
15°	44815	40101	35358
20°	45298	35427	27376
25°	45389	28929	21212
30°	45134	22976	15699
35°	44619	17025	12208
40°	44550	13221	10075
45°	44643	10880	8950
50°	44009	9411	8537
55°	39952	8389	8625
60°	31411	8017	7860
65°	23330	7770	5915
70°	17893	6220	3610
75°	13619	4435	1993
80°	10000	2064	1607
85°	6258	1772	1431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.7	6.7
10°-20°	1847.2	17.5
20°-30°	2230.7	21.2
30°-40°	1994.5	18.9
40°-50°	1561.8	14.8
50°-60°	1180.1	11.2
60°-70°	700.9	6.7
70°-80°	269.4	2.6
80°-90°	46.8	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°	4779.6	45.4
0°-40°	6774.0	64.3
0°-60°	9516.0	90.3
0°-90°	10533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7469	7469	7469	7469	7469	
5°	7475	7443	7418	7409	7397	713
15°	7429	7184	6647	6092	5861	2099
25°	7059	6229	4499	3547	3299	3250
35°	6272	4464	2393	1866	1716	3933
45°	5417	2308	1320	1115	1086	4170
55°	3932	1252	826	822	849	3453
65°	1692	703	564	470	429	1743
75°	605	338	197	97	88	662
85°	94	33	26	23	21	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7468.7	7468.7	7468.7	7468.7	7468.7
2.5°	7475.8	7451.1	7449.1	7465.0	7467.4
5°	7475.2	7442.6	7418.5	7408.7	7397.0
7.5°	7472.9	7423.6	7342.1	7263.8	7227.5
10°	7467.4	7379.8	7193.1	7015.1	6930.4
12.5°	7455.2	7301.5	6971.8	6644.9	6467.0
15°	7428.7	7183.7	6647.2	6091.6	5861.0
17.5°	7380.7	7021.1	6249.5	5465.2	5168.5
20°	7304.8	6814.4	5713.0	4750.8	4414.6
22.5°	7195.8	6544.3	5122.0	4107.6	3839.0
25°	7059.4	6229.0	4499.3	3547.4	3299.1
27.5°	6897.3	5861.0	3962.8	3025.8	2781.2
30°	6707.8	5431.2	3414.7	2533.0	2333.2
32.5°	6495.9	4978.5	2842.3	2157.2	1992.8
35°	6272.3	4463.5	2393.3	1866.1	1716.1
37.5°	6061.8	3912.0	2026.8	1608.6	1503.3
40°	5856.5	3332.7	1738.1	1405.1	1324.5
42.5°	5662.7	2778.5	1517.3	1234.7	1182.0
45°	5417.3	2308.1	1320.3	1115.4	1086.1
47.5°	5156.9	1948.1	1163.8	1018.5	1008.3
50°	4854.6	1659.4	1038.1	934.2	941.7
52.5°	4462.5	1431.2	918.8	874.6	896.5
55°	3932.5	1252.4	825.7	822.4	849.0
57.5°	3311.7	1081.4	752.1	772.6	802.4
60°	2695.2	944.0	687.9	717.6	674.4
62.5°	2153.0	817.8	626.9	572.3	535.2
65°	1692.0	703.2	563.5	469.9	429.0
67.5°	1349.2	596.6	474.1	374.0	340.0
70°	1050.2	501.6	365.1	280.8	211.9
72.5°	804.8	419.2	285.0	159.8	120.6
75°	604.9	338.1	197.0	97.4	88.5
77.5°	431.3	251.1	105.2	70.3	65.2
80°	298.0	161.2	61.5	50.8	47.9
82.5°	184.9	77.8	41.9	36.3	34.0
85°	93.6	32.6	26.5	23.3	21.4
87.5°	31.2	15.9	12.1	11.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)