

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: P563251

Luminaire Tested: **VHB-12-N-UNV-L740-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563251
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-L740-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

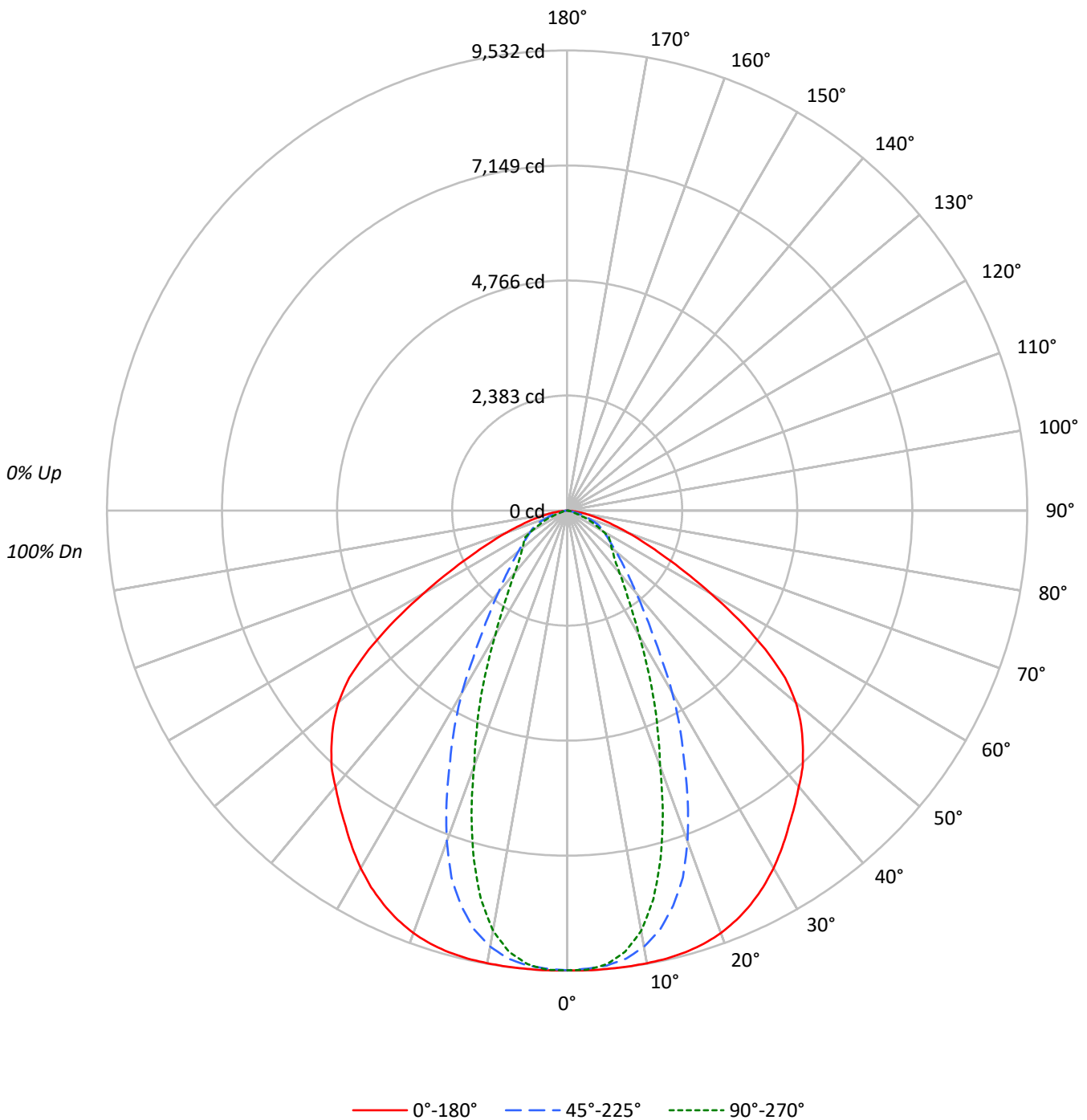
Lumens per Lamp: N/A
Luminaire Lumens: 13430.0 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P563251

CATALOG NUMBER: VHB-12-N-UNV-L740-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	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°	55492	55492	55492
5°	55752	55329	55168
10°	56338	54268	52286
15°	57142	51131	45083
20°	57757	45171	34904
25°	57873	36885	27046
30°	57548	29295	20018
35°	56891	21708	15565
40°	56802	16858	12846
45°	56921	13873	11412
50°	56114	11999	10884
55°	50940	10696	10999
60°	40049	10222	10022
65°	29747	9907	7542
70°	22815	7931	4604
75°	17365	5656	2540
80°	12752	2631	2050
85°	7976	2260	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.7	6.7
10°-20°	2355.2	17.5
20°-30°	2844.2	21.2
30°-40°	2543.1	18.9
40°-50°	1991.4	14.8
50°-60°	1504.6	11.2
60°-70°	893.7	6.7
70°-80°	343.4	2.6
80°-90°	59.7	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°	6094.1	45.4
0°-40°	8637.2	64.3
0°-60°	12133.2	90.3
0°-90°	13430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9523	9523	9523	9523	9523	
5°	9531	9490	9459	9446	9431	909
15°	9472	9160	8476	7767	7473	2676
25°	9001	7942	5737	4523	4206	4144
35°	7997	5691	3052	2379	2188	5015
45°	6907	2943	1683	1422	1385	5317
55°	5014	1597	1053	1049	1083	4403
65°	2157	897	718	599	547	2223
75°	771	431	251	124	113	844
85°	119	42	34	30	27	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9522.9	9522.9	9522.9	9522.9	9522.9
2.5°	9531.9	9500.4	9498.0	9518.2	9521.2
5°	9531.2	9489.6	9458.9	9446.4	9431.4
7.5°	9528.3	9465.4	9361.4	9261.7	9215.4
10°	9521.2	9409.5	9171.4	8944.6	8836.5
12.5°	9505.7	9309.8	8889.3	8472.5	8245.6
15°	9471.9	9159.5	8475.5	7767.0	7473.1
17.5°	9410.7	8952.2	7968.3	6968.4	6590.1
20°	9313.9	8688.7	7284.3	6057.5	5628.7
22.5°	9174.9	8344.3	6530.7	5237.4	4894.8
25°	9001.0	7942.3	5736.8	4523.0	4206.5
27.5°	8794.4	7473.1	5052.7	3858.0	3546.2
30°	8552.7	6925.0	4353.8	3229.7	2975.0
32.5°	8282.5	6347.8	3624.1	2750.5	2540.9
35°	7997.4	5691.1	3051.6	2379.4	2188.1
37.5°	7729.0	4988.0	2584.3	2051.1	1916.8
40°	7467.2	4249.3	2216.1	1791.5	1688.8
42.5°	7220.1	3542.7	1934.7	1574.2	1507.0
45°	6907.2	2943.0	1683.4	1422.2	1384.8
47.5°	6575.2	2483.9	1483.9	1298.6	1285.6
50°	6189.8	2115.8	1323.6	1191.2	1200.6
52.5°	5689.9	1824.8	1171.5	1115.1	1143.1
55°	5014.1	1596.8	1052.8	1048.6	1082.6
57.5°	4222.6	1378.8	959.0	985.1	1023.1
60°	3436.4	1203.7	877.1	915.0	859.9
62.5°	2745.2	1042.8	799.3	729.8	682.3
65°	2157.4	896.6	718.5	599.2	547.0
67.5°	1720.3	760.7	604.5	476.8	433.5
70°	1339.1	639.5	465.5	358.1	270.2
72.5°	1026.2	534.5	363.4	203.7	153.8
75°	771.3	431.1	251.2	124.2	112.8
77.5°	549.9	320.1	134.2	89.7	83.1
80°	380.0	205.5	78.4	64.7	61.1
82.5°	235.7	99.2	53.5	46.3	43.4
85°	119.3	41.6	33.8	29.7	27.3
87.5°	39.8	20.2	15.4	14.3	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)