

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: P563323

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

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563323
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-12-W-UNV-L740-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

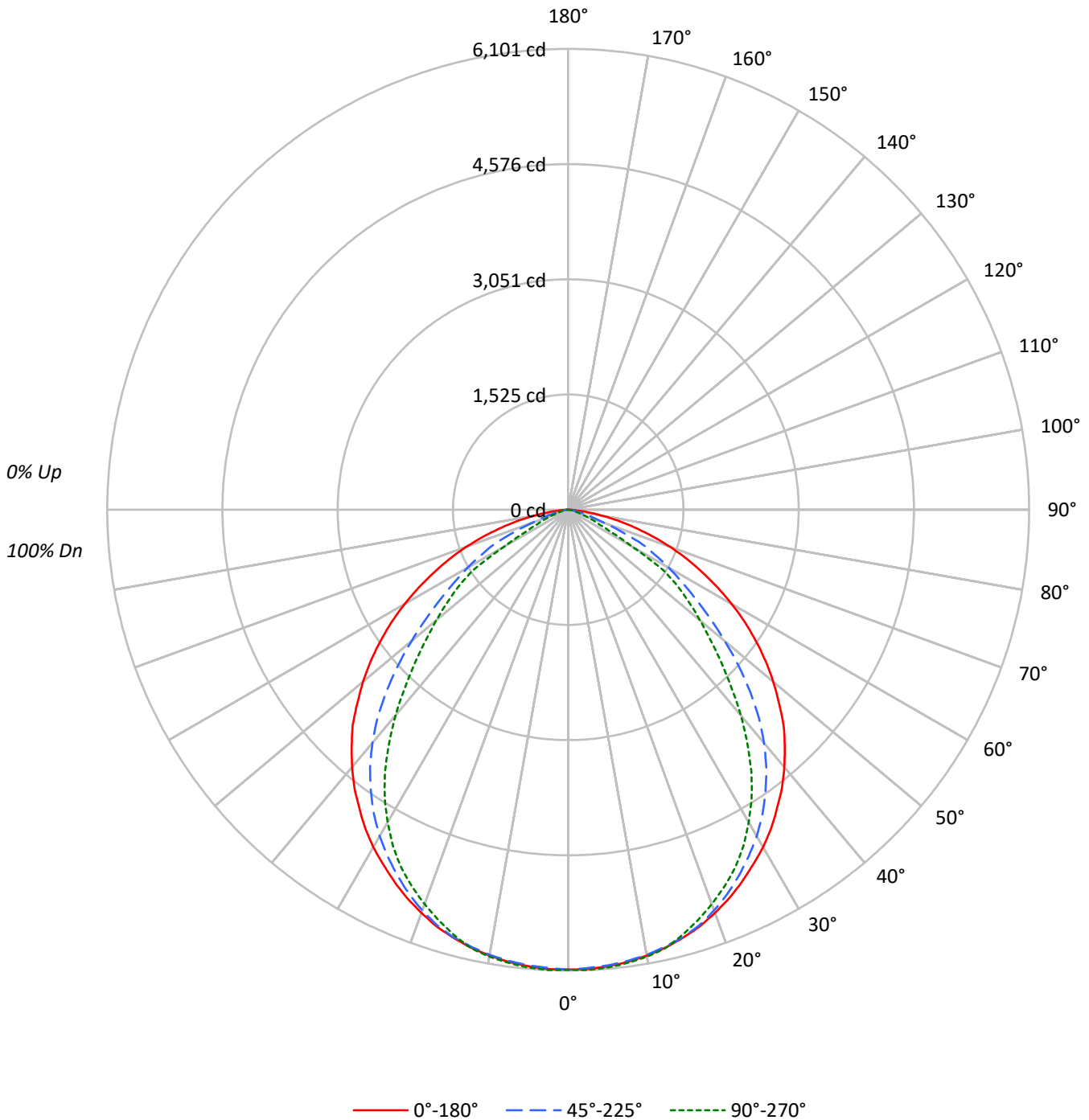
Lumens per Lamp: N/A
Luminaire Lumens: 13697.0 lumens
Efficiency: N/A
Efficacy: 171.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P563323

CATALOG NUMBER: VHB-12-W-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	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°	35486	35486	35486
5°	35491	35419	35582
10°	35478	35401	35547
15°	35394	35357	35175
20°	35223	35005	34458
25°	34962	34367	33613
30°	34708	33575	32139
35°	34294	32399	30051
40°	33842	30657	27039
45°	33227	28037	23626
50°	32129	24547	20639
55°	30817	20911	18016
60°	29114	17935	11502
65°	26977	14960	6097
70°	24348	8502	3951
75°	20454	5208	2459
80°	15544	2631	2151
85°	9447	2387	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.5	4.2
10°-20°	1649.5	12.0
20°-30°	2458.8	18.0
30°-40°	2831.7	20.7
40°-50°	2635.4	19.2
50°-60°	2005.3	14.6
60°-70°	1076.4	7.9
70°-80°	396.0	2.9
80°-90°	67.3	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°	4684.8	34.2
0°-40°	7516.6	54.9
0°-60°	12157.2	88.8
0°-90°	13697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6090	6090	6090	6090	6090	
5°	6067	6050	6055	6076	6083	577
15°	5867	5858	5861	5850	5831	1656
25°	5438	5433	5345	5269	5228	2506
35°	4821	4762	4554	4326	4224	3018
45°	4032	3838	3402	2998	2867	3098
55°	3033	2690	2058	1832	1773	2709
65°	1956	1437	1085	537	442	1940
75°	908	595	231	120	109	974
85°	141	46	36	31	29	188
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6089.7	6089.7	6089.7	6089.7	6089.7
2.5°	6085.3	6066.8	6073.0	6092.7	6100.7
5°	6067.4	6050.1	6055.1	6076.1	6082.9
7.5°	6037.8	6021.2	6024.9	6044.6	6051.4
10°	5995.9	5978.6	5982.9	6002.0	6007.6
12.5°	5939.1	5923.1	5926.8	5940.4	5946.5
15°	5867.0	5857.7	5860.8	5849.7	5830.6
17.5°	5786.2	5772.6	5768.9	5719.6	5699.2
20°	5680.1	5675.2	5644.9	5583.9	5556.7
22.5°	5568.4	5559.1	5506.7	5433.3	5400.7
25°	5437.7	5433.3	5345.2	5269.3	5227.9
27.5°	5297.1	5286.6	5173.0	5078.1	5021.9
30°	5158.2	5132.4	4989.9	4856.6	4776.5
32.5°	5001.0	4952.2	4782.0	4611.8	4519.3
35°	4820.9	4762.3	4554.4	4325.6	4224.4
37.5°	4646.3	4558.1	4307.7	4021.5	3892.0
40°	4448.9	4322.5	4030.2	3697.7	3554.6
42.5°	4241.1	4086.9	3734.7	3348.0	3201.1
45°	4032.0	3837.7	3402.2	2998.3	2866.9
47.5°	3783.4	3577.4	3056.9	2664.6	2551.7
50°	3544.1	3303.6	2707.7	2353.7	2276.6
52.5°	3293.7	3002.0	2368.5	2090.9	2016.3
55°	3033.4	2690.4	2058.3	1832.5	1773.3
57.5°	2771.9	2370.4	1783.2	1597.5	1491.4
60°	2498.1	2052.7	1538.9	1298.4	986.9
62.5°	2228.5	1722.1	1295.3	814.2	627.9
65°	1956.5	1437.1	1085.0	537.2	442.2
67.5°	1696.8	1161.5	774.1	389.2	331.2
70°	1429.1	949.9	499.0	278.8	231.9
72.5°	1160.8	764.2	342.4	183.2	148.6
75°	908.5	595.2	231.3	119.7	109.2
77.5°	680.9	410.8	128.9	88.8	83.3
80°	463.2	246.1	78.4	67.8	64.1
82.5°	277.6	117.8	56.8	50.0	48.1
85°	141.3	45.6	35.7	30.8	29.0
87.5°	42.0	22.8	16.0	12.4	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)