

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: P563296

Luminaire Tested: **VHB-36-N-UNV-L740-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563296
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-36-N-UNV-L740-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

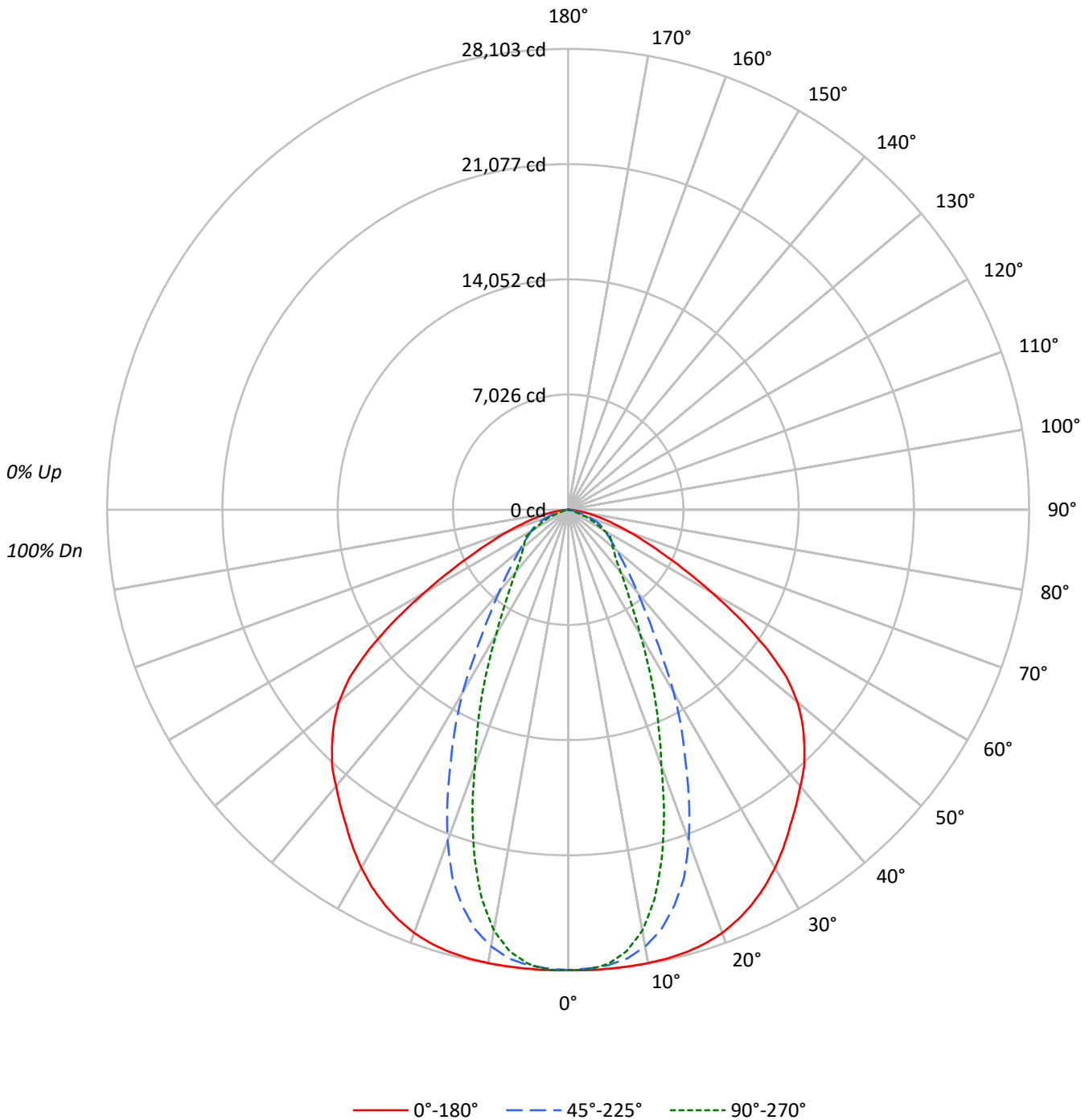
Lumens per Lamp: N/A
Luminaire Lumens: 39596.0 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 246
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	108	104	101	109	105	102	100	101	99	96		97	95	94		94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48		58	52	48		57	51	47	46
8	69	57	49	44	67	56	49	44	55	49	44		54	48	44		53	47	44	42
9	65	53	46	41	63	52	45	41	51	45	41		50	44	40		49	44	40	39
10	61	49	42	38	60	49	42	38	48	42	38		47	41	37		46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	109072	109072	109072
5°	109584	108752	108437
10°	110735	106667	102772
15°	112315	100500	88613
20°	113525	88786	68607
25°	113752	72500	53161
30°	113114	57582	39346
35°	111823	42668	30596
40°	111648	33135	25251
45°	111883	27268	22431
50°	110295	23584	21394
55°	100127	21023	21617
60°	78719	20091	19698
65°	58468	19473	14823
70°	44843	15588	9049
75°	34134	11118	4992
80°	25063	5172	4031
85°	15681	4444	3588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2637.9	6.7
10°-20°	6944.0	17.5
20°-30°	8385.6	21.2
30°-40°	7497.8	18.9
40°-50°	5871.3	14.8
50°-60°	4436.2	11.2
60°-70°	2634.8	6.7
70°-80°	1012.6	2.6
80°-90°	175.9	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°	17967.5	45.4
0°-40°	25465.2	64.3
0°-60°	35772.7	90.3
0°-90°	39596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	39596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28077	28077	28077	28077	28077	
5°	28101	27978	27888	27851	27807	###
15°	27926	27005	24989	22900	22033	7891
25°	26538	23416	16914	13335	12402	12219
35°	23579	16779	8997	7015	6451	14786
45°	20365	8677	4963	4193	4083	15676
55°	14783	4708	3104	3092	3192	12982
65°	6361	2644	2118	1767	1613	6554
75°	2274	1271	741	366	333	2490
85°	352	123	100	88	80	469
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28076.6	28076.6	28076.6	28076.6	28076.6
2.5°	28103.1	28010.3	28003.1	28062.7	28071.6
5°	28101.1	27978.5	27887.8	27851.0	27806.9
7.5°	28092.5	27907.0	27600.6	27306.4	27169.9
10°	28071.6	27742.4	27040.4	26371.6	26052.9
12.5°	28025.9	27448.2	26208.6	24979.6	24310.8
15°	27926.2	27005.3	24988.6	22899.6	22033.0
17.5°	27745.7	26394.1	23493.2	20545.0	19429.6
20°	27460.4	25617.0	21476.5	17859.4	16595.3
22.5°	27050.7	24601.6	19254.7	15441.5	14431.5
25°	26537.9	23416.4	16914.0	13335.4	12402.2
27.5°	25928.7	22033.0	14896.9	11374.6	10455.3
30°	25216.1	20417.1	12836.5	9522.2	8771.2
32.5°	24419.4	18715.4	10684.9	8109.3	7491.5
35°	23579.0	16779.2	8997.1	7015.2	6451.4
37.5°	22787.6	14706.1	7619.4	6047.2	5651.4
40°	22015.8	12528.4	6533.8	5282.0	4979.2
42.5°	21287.3	10445.1	5704.0	4641.3	4443.2
45°	20364.8	8676.8	4963.3	4193.1	4082.8
47.5°	19385.9	7323.2	4375.0	3828.7	3790.3
50°	18249.7	6238.0	3902.3	3512.1	3539.9
52.5°	16775.5	5380.1	3454.1	3287.8	3370.3
55°	14783.3	4707.9	3103.9	3091.7	3191.7
57.5°	12449.6	4065.3	2827.3	2904.5	3016.5
60°	10131.7	3548.8	2585.8	2697.8	2535.2
62.5°	8093.8	3074.5	2356.6	2151.6	2011.8
65°	6360.6	2643.5	2118.4	1766.6	1612.6
67.5°	5072.0	2242.7	1782.2	1405.9	1278.0
70°	3948.0	1885.6	1372.4	1055.7	796.7
72.5°	3025.4	1575.8	1071.3	600.6	453.5
75°	2274.1	1271.1	740.7	366.0	332.6
77.5°	1621.2	943.8	395.5	264.3	245.1
80°	1120.3	605.9	231.2	190.8	180.2
82.5°	695.0	292.5	157.7	136.5	127.9
85°	351.8	122.6	99.7	87.5	80.5
87.5°	117.3	59.6	45.4	42.1	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)