

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: P563297

Luminaire Tested: **VHB-36-N-UNV-L750-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563297
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-L750-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

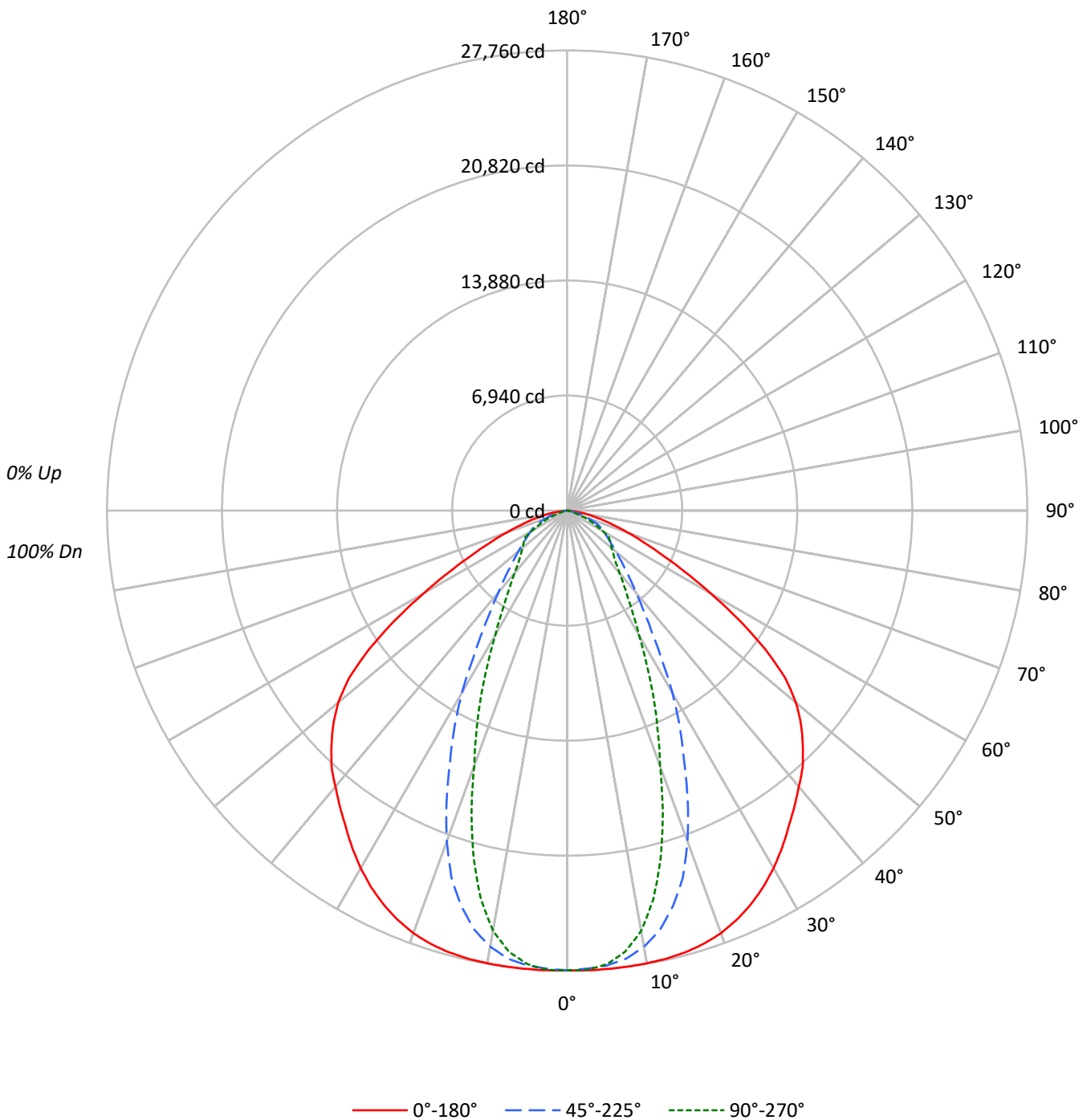
Lumens per Lamp: N/A
Luminaire Lumens: 39113.0 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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°	107742	107742	107742
5°	108247	107426	107115
10°	109384	105366	101518
15°	110945	99274	87533
20°	112140	87703	67770
25°	112365	71616	52512
30°	111734	56879	38866
35°	110459	42148	30222
40°	110285	32730	24943
45°	110518	26936	22157
50°	108949	23297	21133
55°	98905	20767	21354
60°	77759	19846	19457
65°	57755	19236	14642
70°	44296	15399	8939
75°	33718	10983	4931
80°	24759	5110	3982
85°	15489	4390	3544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2605.7	6.7
10°-20°	6859.3	17.5
20°-30°	8283.3	21.2
30°-40°	7406.3	18.9
40°-50°	5799.7	14.8
50°-60°	4382.1	11.2
60°-70°	2602.7	6.7
70°-80°	1000.2	2.6
80°-90°	173.8	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°	17748.3	45.4
0°-40°	25154.6	64.3
0°-60°	35336.3	90.3
0°-90°	39113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	39113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27734	27734	27734	27734	27734	
5°	27758	27637	27548	27511	27468	###
15°	27586	26676	24684	22620	21764	7794
25°	26214	23131	16708	13173	12251	12070
35°	23291	16574	8887	6930	6373	14606
45°	20116	8571	4903	4142	4033	15484
55°	14603	4650	3066	3054	3153	12824
65°	6283	2611	2093	1745	1593	6474
75°	2246	1256	732	362	328	2459
85°	348	121	98	86	80	463
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27734.1	27734.1	27734.1	27734.1	27734.1
2.5°	27760.3	27668.7	27661.5	27720.4	27729.2
5°	27758.3	27637.3	27547.6	27511.3	27467.8
7.5°	27749.8	27566.6	27263.9	26973.3	26838.5
10°	27729.2	27403.9	26710.6	26049.9	25735.1
12.5°	27684.0	27113.4	25888.9	24674.9	24014.2
15°	27585.6	26675.9	24683.7	22620.3	21764.3
17.5°	27407.2	26072.1	23206.7	20294.4	19192.6
20°	27125.5	25304.5	21214.5	17641.6	16392.9
22.5°	26720.7	24301.5	19019.8	15253.2	14255.5
25°	26214.2	23130.7	16707.7	13172.7	12250.9
27.5°	25612.4	21764.3	14715.2	11235.9	10327.8
30°	24908.5	20168.1	12679.9	9406.0	8664.2
32.5°	24121.6	18487.1	10554.6	8010.4	7400.1
35°	23291.4	16574.5	8887.4	6929.6	6372.7
37.5°	22509.7	14526.7	7526.5	5973.5	5582.4
40°	21747.2	12375.6	6454.1	5217.6	4918.5
42.5°	21027.7	10317.7	5634.5	4584.7	4389.0
45°	20116.4	8571.0	4902.8	4142.0	4033.0
47.5°	19149.4	7233.9	4321.6	3782.0	3744.1
50°	18027.0	6161.9	3854.7	3469.2	3496.7
52.5°	16570.9	5314.4	3412.0	3247.7	3329.2
55°	14603.0	4650.5	3066.1	3054.0	3152.8
57.5°	12297.7	4015.7	2792.8	2869.1	2979.7
60°	10008.1	3505.5	2554.3	2664.9	2504.2
62.5°	7995.0	3037.0	2327.9	2125.3	1987.2
65°	6283.0	2611.2	2092.6	1745.1	1592.9
67.5°	5010.1	2215.3	1760.5	1388.7	1262.4
70°	3899.8	1862.6	1355.7	1042.9	787.0
72.5°	2988.5	1556.6	1058.2	593.3	448.0
75°	2246.4	1255.6	731.7	361.6	328.5
77.5°	1601.4	932.3	390.7	261.1	242.1
80°	1106.7	598.5	228.4	188.5	178.0
82.5°	686.5	288.9	155.8	134.8	126.3
85°	347.5	121.1	98.5	86.4	79.5
87.5°	115.8	58.9	44.8	41.6	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)