

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: P563374

Luminaire Tested: **VHB-36-W-UNV-L940-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563374  
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-36-W-UNV-L940-CD  
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 4000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

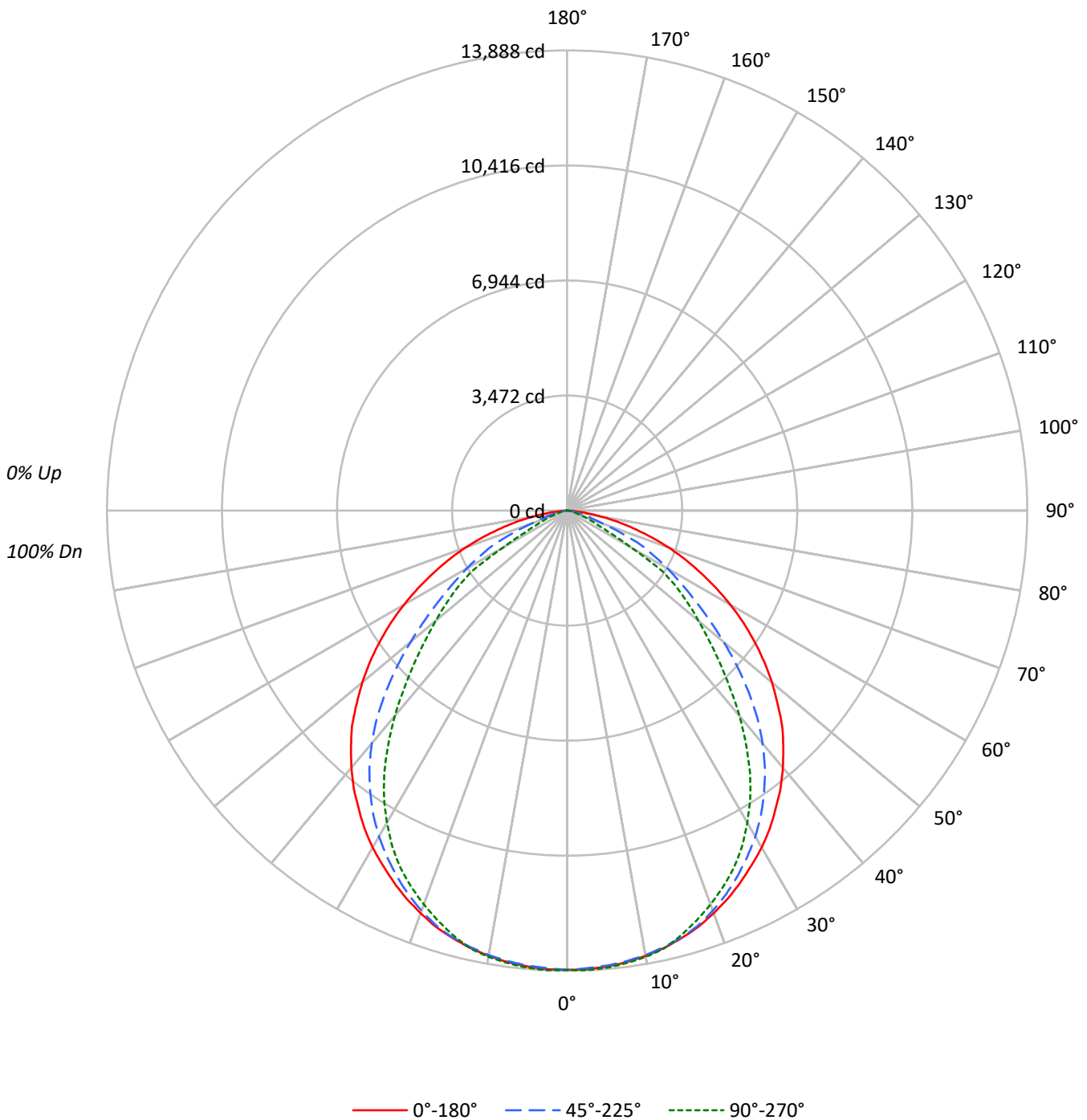
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31180.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
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	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°	53853	53853	53853
5°	53862	53752	53999
10°	53842	53726	53947
15°	53714	53658	53381
20°	53455	53124	52294
25°	53059	52156	51013
30°	52673	50954	48775
35°	52045	49168	45606
40°	51360	46525	41035
45°	50426	42550	35855
50°	48760	37253	31321
55°	46769	31735	27341
60°	44183	27218	17455
65°	40939	22703	9254
70°	36951	12902	5996
75°	31043	7904	3730
80°	23591	3991	3266
85°	14335	3628	2946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1312.4	4.2
10°-20°	3754.9	12.0
20°-30°	5597.3	18.0
30°-40°	6446.2	20.7
40°-50°	5999.2	19.2
50°-60°	4564.9	14.6
60°-70°	2450.4	7.9
70°-80°	901.5	2.9
80°-90°	153.3	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°	10664.6	34.2
0°-40°	17110.8	54.9
0°-60°	27674.9	88.8
0°-90°	31180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13863	13863	13863	13863	13863	
5°	13812	13773	13784	13832	13847	###
15°	13356	13334	13342	13316	13273	3770
25°	12378	12368	12168	11995	11901	5706
35°	10974	10841	10368	9847	9616	6870
45°	9178	8736	7745	6825	6526	7053
55°	6905	6124	4686	4172	4037	6168
65°	4454	3272	2470	1223	1007	4416
75°	2068	1355	527	272	248	2217
85°	322	104	81	70	66	429
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13862.6	13862.6	13862.6	13862.6	<i>13862.6</i>
2.5°	<i>13852.6</i>	<i>13810.5</i>	<i>13824.6</i>	<i>13869.6</i>	<i>13887.8</i>
5°	13812.0	13772.6	13783.8	13831.6	<i>13847.1</i>
7.5°	13744.6	13706.7	13715.1	13760.0	<i>13775.5</i>
10°	13649.1	13609.8	13619.6	13663.0	<i>13675.7</i>
12.5°	13519.8	13483.4	13491.9	13522.8	<i>13536.8</i>
15°	13355.6	13334.5	13341.6	13316.3	<i>13272.8</i>
17.5°	13171.8	13140.8	13132.4	13020.1	<i>12973.7</i>
20°	12930.3	12919.0	12850.2	12711.2	<i>12649.4</i>
22.5°	12676.1	12654.9	12535.6	12368.5	<i>12294.1</i>
25°	12378.4	12368.5	12167.8	11995.0	<i>11901.0</i>
27.5°	12058.3	12034.4	11776.0	11559.9	<i>11432.0</i>
30°	11742.3	11683.4	11359.0	11055.7	<i>10873.3</i>
32.5°	11384.3	11273.3	10885.8	10498.3	<i>10287.8</i>
35°	10974.3	10840.9	10367.7	9846.8	<i>9616.5</i>
37.5°	10576.9	10376.1	9806.1	9154.6	<i>8859.8</i>
40°	10127.6	9839.8	9174.3	8417.5	<i>8091.7</i>
42.5°	9654.4	9303.4	8501.8	7621.4	<i>7287.1</i>
45°	9178.4	8736.3	7744.9	6825.3	<i>6526.2</i>
47.5°	8612.6	8143.7	6958.7	6065.6	<i>5808.7</i>
50°	8067.9	7520.3	6163.9	5358.0	<i>5182.5</i>
52.5°	7497.8	6833.7	5391.7	4759.8	<i>4589.9</i>
55°	6905.3	6124.5	4685.5	4171.5	<i>4036.8</i>
57.5°	6309.9	5396.0	4059.3	3636.6	<i>3395.1</i>
60°	5686.6	4672.8	3503.2	2955.6	<i>2246.6</i>
62.5°	5072.9	3920.1	2948.6	1853.4	<i>1429.3</i>
65°	4453.7	3271.5	2469.8	1223.0	<i>1006.7</i>
67.5°	3862.7	2644.0	1762.1	885.9	<i>754.0</i>
70°	3253.2	2162.3	1135.9	634.7	<i>527.9</i>
72.5°	2642.5	1739.6	779.3	417.1	<i>338.3</i>
75°	2068.2	1354.9	526.6	272.4	<i>248.5</i>
77.5°	1550.0	935.1	293.4	202.1	<i>189.6</i>
80°	1054.5	560.3	178.4	154.4	<i>146.0</i>
82.5°	631.9	268.2	129.2	113.8	<i>109.5</i>
85°	321.6	103.8	81.4	70.1	<i>66.1</i>
87.5°	95.5	51.9	36.5	28.2	<i>26.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)