

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: P563377

Luminaire Tested: **VHB-48-W-UNV-L740-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563377  
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-48-W-UNV-L740-CD  
Description: 48000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 4000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

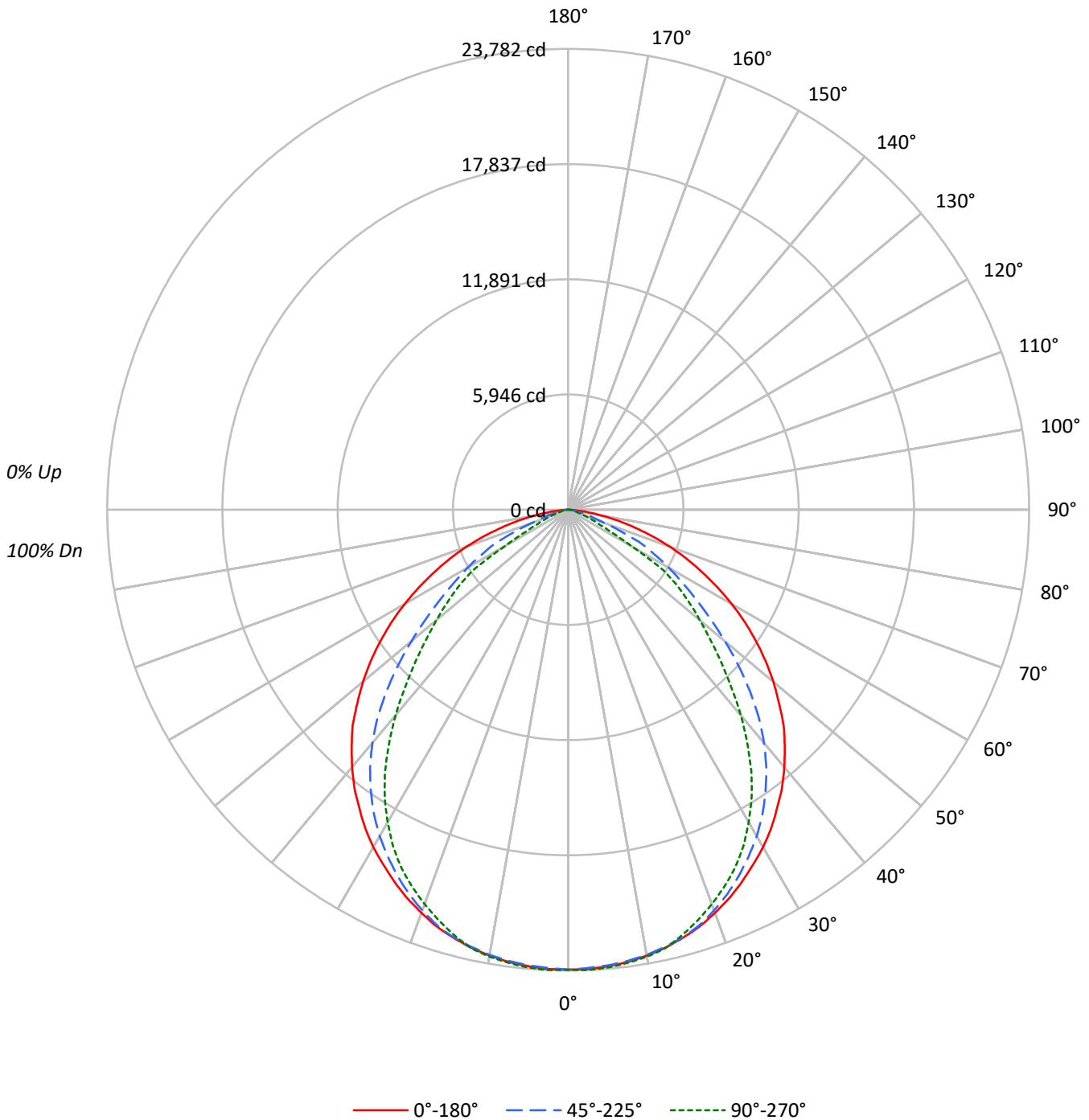
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53393.0 lumens  
Efficiency: N/A  
Efficacy: 164.8 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): 324  
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	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	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°	92219	92219	92219
5°	92233	92045	92468
10°	92199	92001	92380
15°	91981	91885	91410
20°	91537	90971	89549
25°	90859	89313	87354
30°	90198	87255	83523
35°	89123	84196	78096
40°	87949	79670	70269
45°	86349	72863	61398
50°	83497	63792	53635
55°	80089	54342	46819
60°	75659	46609	29890
65°	70105	38878	15846
70°	63277	22093	10268
75°	53158	13536	6387
80°	40399	6832	5593
85°	24542	6209	5041



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2247.4	4.2
10°-20°	6429.9	12.0
20°-30°	9584.8	18.0
30°-40°	11038.5	20.7
40°-50°	10273.0	19.2
50°-60°	7817.0	14.6
60°-70°	4196.0	7.9
70°-80°	1543.7	2.9
80°-90°	262.5	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°	18262.1	34.2
0°-40°	29300.7	54.9
0°-60°	47390.7	88.8
0°-90°	53393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23738	23738	23738	23738	23738	
5°	23652	23584	23604	23686	23712	###
15°	22870	22834	22846	22803	22728	6455
25°	21197	21180	20836	20540	20379	9771
35°	18793	18564	17754	16862	16467	11764
45°	15717	14960	13262	11688	11176	12078
55°	11825	10488	8023	7143	6913	10562
65°	7627	5602	4229	2094	1724	7563
75°	3542	2320	902	466	426	3796
85°	551	178	139	120	113	734
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	23738.4	23738.4	23738.4	23738.4	23738.4
2.5°	23721.4	23649.2	23673.5	23750.4	23781.6
5°	23651.7	23584.3	23603.5	23685.5	23711.9
7.5°	23536.4	23471.4	23485.9	23562.9	23589.3
10°	23372.8	23305.6	23322.4	23396.8	23418.5
12.5°	23151.5	23089.1	23103.6	23156.6	23180.5
15°	22870.4	22834.1	22846.4	22802.9	22728.5
17.5°	22555.5	22502.5	22488.0	22295.7	22216.3
20°	22141.9	22122.7	22004.8	21766.8	21660.9
22.5°	21706.6	21670.4	21466.1	21180.0	21052.6
25°	21197.0	21180.0	20836.4	20540.4	20379.3
27.5°	20648.8	20607.8	20165.3	19795.2	19576.2
30°	20107.6	20006.8	19451.4	18931.9	18619.5
32.5°	19494.6	19304.5	18641.0	17977.5	17616.9
35°	18792.6	18564.1	17753.7	16861.7	16467.4
37.5°	18112.1	17768.2	16792.0	15676.5	15171.6
40°	17342.7	16849.7	15710.2	14414.2	13856.3
42.5°	16532.3	15931.2	14558.5	13050.9	12478.5
45°	15717.2	14960.1	13262.4	11687.7	11175.5
47.5°	14748.3	13945.4	11916.2	10386.8	9946.8
50°	13815.6	12877.8	10555.1	9175.2	8874.5
52.5°	12839.4	11702.1	9232.9	8150.8	7859.9
55°	11824.8	10487.7	8023.4	7143.4	6912.7
57.5°	10805.1	9240.1	6951.1	6227.4	5813.9
60°	9737.8	8001.7	5998.9	5061.2	3847.0
62.5°	8686.9	6712.9	5049.2	3173.8	2447.5
65°	7626.6	5602.1	4229.4	2094.2	1723.8
67.5°	6614.5	4527.5	3017.4	1517.1	1291.1
70°	5570.9	3702.7	1945.1	1086.8	904.0
72.5°	4525.0	2979.0	1334.5	714.2	579.4
75°	3541.6	2320.2	901.8	466.5	425.5
77.5°	2654.3	1601.2	502.4	346.1	324.6
80°	1805.8	959.5	305.4	264.5	250.0
82.5°	1082.1	459.2	221.3	194.8	187.5
85°	550.6	177.8	139.3	120.1	113.1
87.5°	163.6	88.9	62.4	48.2	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)