

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: P563260

Luminaire Tested: **VHB-15-N-UNV-L740-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563260  
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-15-N-UNV-L740-CD  
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

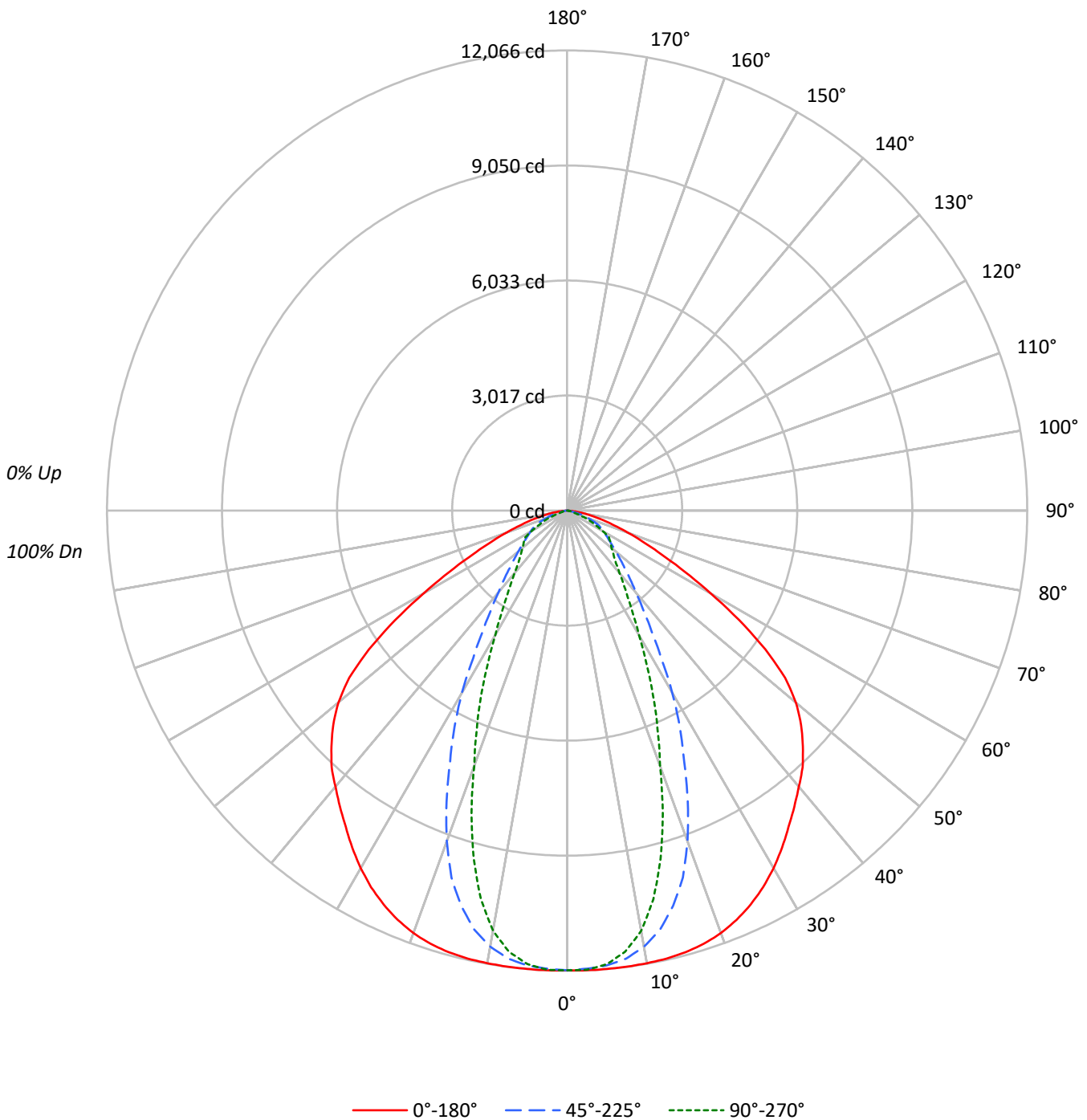
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17000.0 lumens  
Efficiency: N/A  
Efficacy: 163.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86  
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 104  
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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42					42			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	70243	70243	70243
5°	70572	70037	69834
10°	71314	68694	66186
15°	72331	64722	57067
20°	73110	57178	44183
25°	73257	46690	34236
30°	72846	37083	25339
35°	72014	27479	19703
40°	71902	21339	16262
45°	72053	17561	14445
50°	71030	15188	13778
55°	64482	13538	13921
60°	50695	12939	12685
65°	37653	12540	9546
70°	28879	10039	5827
75°	21983	7160	3215
80°	16141	3332	2597
85°	10096	2862	2313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1132.5	6.7
10°-20°	2981.3	17.5
20°-30°	3600.2	21.2
30°-40°	3219.1	18.9
40°-50°	2520.8	14.8
50°-60°	1904.6	11.2
60°-70°	1131.2	6.7
70°-80°	434.7	2.6
80°-90°	75.5	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
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0°-30°	7714.1	45.4
0°-40°	10933.2	64.3
0°-60°	15358.5	90.3
0°-90°	17000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12054	12054	12054	12054	12054	
5°	12065	12012	11973	11957	11938	###
15°	11990	11594	10728	9832	9460	3388
25°	11394	10054	7262	5725	5325	5246
35°	10123	7204	3863	3012	2770	6348
45°	8743	3725	2131	1800	1753	6730
55°	6347	2021	1333	1327	1370	5574
65°	2731	1135	910	758	692	2814
75°	976	546	318	157	143	1069
85°	151	53	43	38	35	201
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12054.3	12054.3	12054.3	12054.3	12054.3
2.5°	12065.7	12025.9	12022.7	12048.3	12052.2
5°	12064.8	12012.2	11973.2	11957.4	11938.5
7.5°	12061.1	11981.5	11849.9	11723.6	11665.0
10°	12052.2	11910.8	11609.4	11322.3	11185.5
12.5°	12032.5	11784.5	11252.3	10724.7	10437.5
15°	11989.7	11594.4	10728.5	9831.6	9459.6
17.5°	11912.2	11331.9	10086.5	8820.7	8341.8
20°	11789.8	10998.3	9220.6	7667.7	7125.0
22.5°	11613.8	10562.4	8266.7	6629.6	6196.0
25°	11393.7	10053.5	7261.8	5725.4	5324.7
27.5°	11132.1	9459.6	6395.8	4883.5	4488.9
30°	10826.2	8765.8	5511.2	4088.2	3765.8
32.5°	10484.2	8035.2	4587.4	3481.6	3216.4
35°	10123.3	7203.9	3862.8	3011.9	2769.8
37.5°	9783.6	6313.9	3271.3	2596.3	2426.3
40°	9452.2	5378.9	2805.2	2267.8	2137.8
42.5°	9139.4	4484.5	2448.9	1992.7	1907.6
45°	8743.3	3725.3	2130.9	1800.3	1752.9
47.5°	8323.1	3144.1	1878.3	1643.8	1627.3
50°	7835.2	2678.2	1675.4	1507.9	1519.8
52.5°	7202.3	2309.9	1483.0	1411.6	1447.0
55°	6347.0	2021.3	1332.6	1327.4	1370.3
57.5°	5345.0	1745.4	1213.9	1247.0	1295.1
60°	4349.9	1523.6	1110.2	1158.3	1088.4
62.5°	3474.9	1320.0	1011.8	923.7	863.7
65°	2730.8	1134.9	909.5	758.5	692.3
67.5°	2177.6	962.9	765.2	603.6	548.7
70°	1695.0	809.5	589.2	453.3	342.0
72.5°	1298.9	676.6	460.0	257.9	194.7
75°	976.4	545.7	318.0	157.2	142.8
77.5°	696.0	405.2	169.8	113.5	105.2
80°	481.0	260.1	99.3	81.9	77.4
82.5°	298.4	125.6	67.7	58.6	54.9
85°	151.0	52.6	42.8	37.5	34.6
87.5°	50.3	25.6	19.5	18.1	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)