

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: P828116

Luminaire Tested: **OHBL-48HE-W-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828116  
REPORT IS A COMBINATION OF REPORTS P826256 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-W-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

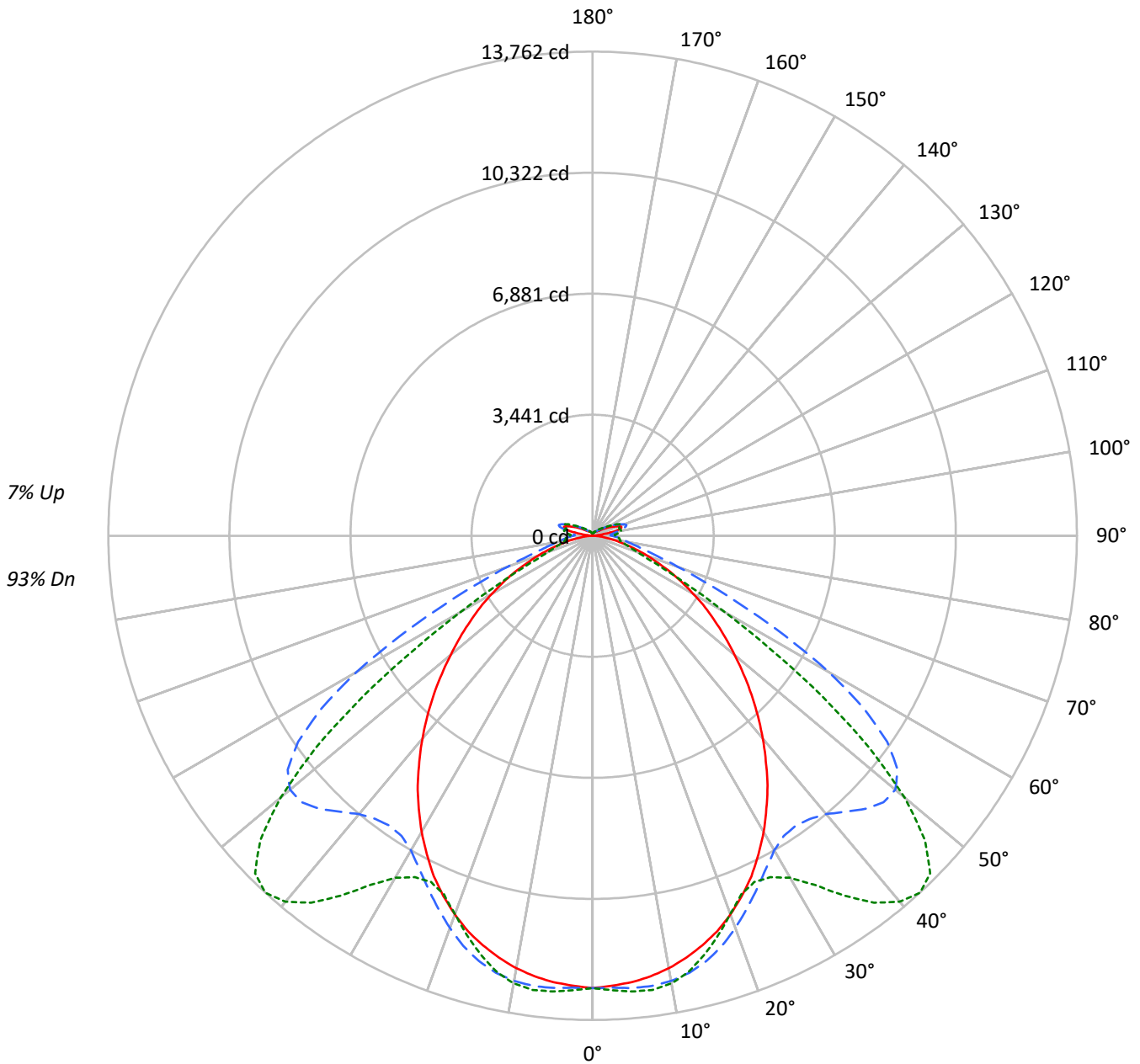
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40507.8 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 283.4  
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									
RC	80									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	0																
RCR																																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

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

	0°	45°	90°
0°	20330	20330	20330
5°	20056	20311	20562
10°	19721	20289	20586
15°	19253	19963	19927
20°	18645	19285	18950
25°	17861	18464	18570
30°	16851	17855	19984
35°	15714	18195	23384
40°	14414	19718	27034
45°	13063	22382	29058
50°	11664	24769	27041
55°	10347	24762	20662
60°	9011	20973	12633
65°	7611	14503	7652
70°	6052	9394	5525
75°	4458	6751	5122
80°	3031	5955	5779
85°	1833	6599	9136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1228.5	3.0
10°-20°	3478.6	8.6
20°-30°	5090.4	12.6
30°-40°	6610.9	16.3
40°-50°	8072.8	19.9
50°-60°	7109.4	17.6
60°-70°	3704.7	9.1
70°-80°	1588.7	3.9
80°-90°	768.1	1.9
90°-100°	551.7	1.4
100°-110°	893.6	2.2
110°-120°	707.1	1.7
120°-130°	347.6	0.9
130°-140°	174.1	0.4
140°-150°	97.3	0.2
150°-160°	52.7	0.1
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	9797.5	24.2
0°-40°	16408.4	40.5
0°-60°	31590.6	78.0
0°-90°	37652.2	93.0
90°-120°	2152.3	5.3
90°-150°	2771.4	6.8
90°-180°	2856.0	7.1
0°-180°	40507.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12855	12855	12855	12855	12855	
5°	12736	12833	12902	13016	13002	###
15°	12051	12389	12509	12414	12314	3393
25°	10678	11249	11058	10850	10861	4900
35°	8667	9582	10062	11735	12486	5402
45°	6382	8029	10975	13288	13565	4921
55°	4249	7034	10220	8961	7966	3813
65°	2438	4873	4679	2602	2238	2412
75°	982	2280	1503	1029	976	1071
85°	208	813	766	749	757	232
90°	7	322	544	629	648	18
95°	50	264	546	662	700	141
105°	847	924	964	814	779	805
115°	593	638	743	778	778	599
125°	301	324	397	424	424	281
135°	183	187	220	252	257	145
145°	143	141	146	164	170	90
155°	119	120	117	118	118	52
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12855.2	12855.2	12855.2	12855.2	12855.2
2.5°	12799.8	12855.2	12858.0	12935.7	12927.3
5°	12736.0	12833.1	12902.4	13016.1	13002.3
7.5°	12630.6	12783.1	12905.2	13030.0	13018.8
10°	12480.8	12688.8	12849.7	12952.3	12919.0
12.5°	12286.7	12561.2	12719.3	12741.5	12677.8
15°	12050.9	12389.2	12508.6	12414.2	12314.4
17.5°	11784.7	12181.2	12222.8	12017.7	11892.8
20°	11451.8	11903.9	11862.3	11579.4	11440.8
22.5°	11083.0	11598.8	11465.7	11168.9	11035.8
25°	10678.0	11249.3	11058.0	10850.0	10861.1
27.5°	10203.8	10852.8	10666.9	10761.2	10938.8
30°	9721.2	10436.8	10323.0	10872.2	11221.7
32.5°	9191.4	10009.6	10112.3	11196.7	11768.0
35°	8667.3	9582.5	10062.3	11734.8	12486.3
37.5°	8087.6	9149.8	10142.8	12356.0	13143.7
40°	7524.6	8728.2	10325.8	12913.5	13579.1
42.5°	6950.4	8351.1	10633.7	13243.5	13762.2
45°	6381.8	8029.3	10974.8	13287.9	13565.2
47.5°	5813.2	7757.5	11210.6	12935.7	12808.1
50°	5264.2	7516.2	11227.2	12089.8	11568.3
52.5°	4751.0	7294.3	10922.1	10741.8	9931.9
55°	4249.0	7033.7	10220.4	8961.2	7965.5
57.5°	3791.4	6673.1	9138.8	7047.5	5960.2
60°	3306.0	6184.9	7740.9	5156.0	4298.9
62.5°	2859.5	5577.5	6173.8	3588.9	3089.7
65°	2437.9	4873.1	4678.9	2601.6	2238.2
67.5°	1991.4	4143.7	3453.0	1897.1	1664.1
70°	1641.9	3466.9	2571.1	1475.5	1339.6
72.5°	1284.2	2823.4	1922.1	1198.2	1123.3
75°	981.8	2279.8	1503.3	1029.0	976.2
77.5°	723.9	1802.8	1209.2	909.8	859.8
80°	507.6	1420.0	1012.3	812.7	793.2
82.5°	341.2	1098.3	862.6	773.8	776.6
85°	208.0	812.7	765.5	748.8	757.2
87.5°	99.8	576.9	657.3	682.3	690.6
90°	6.9	322.3	543.9	628.6	648.2
92.5°	14.2	262.2	503.8	600.8	625.6
95°	49.8	264.4	545.5	661.5	700.3
97.5°	229.8	383.9	621.4	748.5	784.3
100°	468.3	610.3	715.9	807.8	823.6
102.5°	719.2	814.8	803.4	811.2	810.0
105°	846.9	923.8	964.1	814.2	778.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	690.0	749.9	853.1	872.8	851.6
115°	593.3	638.0	743.3	777.8	778.3
117.5°	512.8	544.1	638.9	671.4	675.0
120°	427.8	459.1	547.0	576.2	573.9
122.5°	361.9	385.8	465.7	494.5	492.3
125°	301.1	324.4	396.8	423.7	424.0
127.5°	255.0	268.6	337.9	366.5	368.4
130°	224.2	230.8	289.1	317.7	324.0
132.5°	200.8	206.7	251.3	282.3	287.1
135°	183.3	186.7	220.3	252.4	256.8
137.5°	169.2	171.7	196.1	226.2	231.8
140°	156.7	160.0	175.3	204.7	208.2
142.5°	148.6	149.2	160.8	184.7	187.4
145°	143.0	140.8	146.1	163.6	169.9
147.5°	135.5	136.1	137.8	150.5	153.2
150°	129.7	131.3	128.3	134.7	141.1
152.5°	123.8	125.5	122.5	123.3	128.8
155°	118.8	120.5	116.7	117.5	117.5
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	853.0	928.5	1010.5	887.6	791.5
110°	788.0	856.6	949.4	929.6	853.5



(END OF REPORT)