

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: P828044

Luminaire Tested: **OHBL-24HE-W-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828044  
REPORT IS A COMBINATION OF REPORTS P826304 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-W-UNV-L935-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

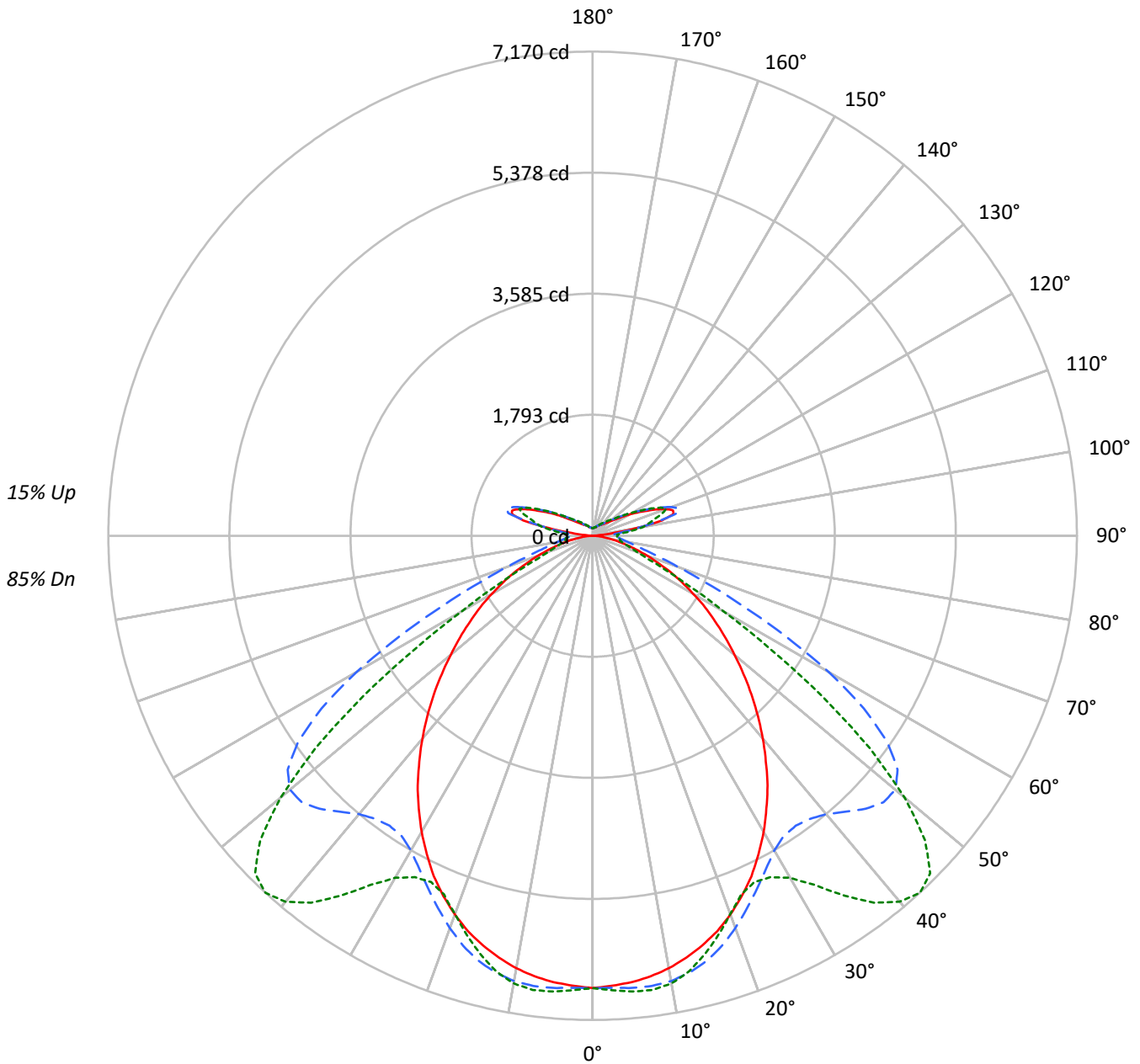
Lumens per Lamp: N/A  
Luminaire Lumens: 23039.2 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 161.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	101	97	94	102	98	94	91	91	88	85	84	82	80	78	77	75	72																			
2	96	89	82	77	93	86	80	75	80	75	71	74	70	67	69	66	63	61																			
3	88	78	70	64	84	75	68	62	70	64	59	66	61	57	61	57	54	51																			
4	80	69	61	54	77	67	59	53	62	56	51	58	53	48	55	50	46	44																			
5	74	61	53	46	71	59	51	45	56	49	44	52	46	42	49	44	40	38																			
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33																			
7	63	50	41	35	60	48	40	35	45	38	33	43	37	32	40	35	31	29																			
8	58	45	37	31	56	44	36	31	41	34	30	39	33	29	37	31	27	25																			
9	54	41	33	28	52	40	33	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	31	26	22	20																			

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

	0°	45°	90°
0°	10592	10592	10592
5°	10449	10582	10713
10°	10275	10571	10726
15°	10031	10401	10382
20°	9714	10048	9873
25°	9306	9620	9676
30°	8780	9303	10412
35°	8187	9480	12184
40°	7510	10273	14085
45°	6806	11661	15140
50°	6077	12905	14089
55°	5391	12901	10765
60°	4695	10927	6582
65°	3966	7556	3987
70°	3153	4894	2878
75°	2323	3517	2669
80°	1579	3102	3010
85°	956	3438	4760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	640.0	2.8
10°-20°	1812.4	7.9
20°-30°	2652.2	11.5
30°-40°	3444.4	15.0
40°-50°	4206.0	18.3
50°-60°	3704.0	16.1
60°-70°	1930.2	8.4
70°-80°	827.7	3.6
80°-90°	403.9	1.8
90°-100°	416.0	1.8
100°-110°	1154.5	5.0
110°-120°	928.1	4.0
120°-130°	444.1	1.9
130°-140°	224.7	1.0
140°-150°	129.4	0.6
150°-160°	73.8	0.3
160°-170°	36.7	0.2
170°-180°	11.2	0.0
0°-30°	5104.6	22.2
0°-40°	8549.0	37.1
0°-60°	16459.1	71.4
0°-90°	19620.9	85.2
90°-120°	2498.5	10.8
90°-150°	3296.6	14.3
90°-180°	3418.0	14.8
0°-180°	23039.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6698	6698	6698	6698	6698	
5°	6636	6686	6722	6782	6774	629
15°	6279	6455	6517	6468	6416	1768
25°	5563	5861	5761	5653	5659	2553
35°	4516	4993	5243	6114	6506	2815
45°	3325	4183	5718	6923	7068	2564
55°	2214	3665	5325	4669	4150	1987
65°	1270	2539	2438	1355	1166	1257
75°	512	1188	783	536	509	558
85°	108	423	399	390	394	121
90°	8	194	316	361	369	12
95°	55	193	347	421	441	194
105°	1237	1279	1291	1022	942	1176
115°	867	876	937	962	956	877
125°	433	452	497	504	497	406
135°	259	264	286	304	306	204
145°	193	194	200	211	215	123
155°	158	161	160	162	162	72
165°	126	128	128	129	130	36
175°	115	115	116	116	117	11
180°	113	113	113	113	113	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6697.8	6697.8	6697.8	6697.8	6697.8
2.5°	6668.8	6697.8	6699.2	6739.7	6735.3
5°	6635.6	6686.2	6722.2	6781.5	6774.3
7.5°	6580.7	6660.2	6723.8	6788.8	6783.0
10°	6502.7	6611.0	6694.8	6748.3	6731.0
12.5°	6401.5	6544.6	6626.9	6638.5	6605.2
15°	6278.7	6455.0	6517.1	6468.0	6415.9
17.5°	6139.9	6346.6	6368.2	6261.3	6196.3
20°	5966.5	6202.1	6180.4	6033.0	5960.8
22.5°	5774.3	6043.2	5973.8	5819.2	5749.8
25°	5563.4	5861.1	5761.3	5653.0	5658.8
27.5°	5316.2	5654.4	5557.6	5606.8	5699.2
30°	5064.8	5437.7	5378.4	5664.5	5846.6
32.5°	4788.8	5215.1	5268.6	5833.6	6131.2
35°	4515.8	4992.6	5242.6	6113.9	6505.5
37.5°	4213.8	4767.2	5284.5	6437.6	6848.0
40°	3920.3	4547.5	5379.8	6728.1	7074.9
42.5°	3621.2	4351.0	5540.2	6900.0	7170.2
45°	3325.0	4183.3	5718.0	6923.2	7067.7
47.5°	3028.8	4041.8	5840.8	6739.7	6673.2
50°	2742.7	3916.0	5849.5	6298.9	6027.2
52.5°	2475.3	3800.4	5690.5	5596.6	5174.7
55°	2213.8	3664.6	5324.9	4668.9	4150.2
57.5°	1975.3	3476.8	4761.4	3671.8	3105.3
60°	1722.5	3222.4	4033.1	2686.3	2239.8
62.5°	1489.8	2906.0	3216.7	1869.8	1609.8
65°	1270.2	2538.9	2437.8	1355.4	1166.2
67.5°	1037.5	2158.9	1799.1	988.4	867.0
70°	855.5	1806.2	1339.6	768.8	697.9
72.5°	669.1	1471.1	1001.4	624.2	585.2
75°	511.5	1187.8	783.2	536.1	508.7
77.5°	377.2	939.2	630.0	474.0	448.0
80°	264.4	739.8	527.4	423.4	413.2
82.5°	177.8	572.3	449.4	403.2	404.6
85°	108.4	423.4	398.8	390.2	394.5
87.5°	52.0	300.6	342.5	355.5	359.8
90°	8.1	194.0	315.5	360.6	368.7
92.5°	20.8	167.1	295.3	348.8	361.0
95°	54.6	192.9	347.0	420.7	441.2
97.5°	314.6	408.7	478.7	572.9	597.3
100°	673.5	750.2	700.1	740.4	761.4
102.5°	1052.7	1118.8	990.2	877.1	855.0
105°	1236.6	1278.9	1290.8	1022.4	942.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1017.0	1045.5	1097.0	1113.9	1090.2
115°	867.0	875.6	937.2	961.8	956.3
117.5°	744.2	751.8	806.2	820.2	812.5
120°	627.6	639.2	689.4	695.1	689.8
122.5°	521.8	540.7	585.5	593.1	583.7
125°	432.6	451.9	496.7	503.6	496.7
127.5°	371.2	377.6	421.1	431.3	432.8
130°	320.3	327.0	362.2	378.3	379.5
132.5°	285.3	292.0	320.6	337.5	342.9
135°	258.7	264.5	285.6	304.0	306.3
137.5°	237.0	242.0	257.1	275.8	279.5
140°	218.7	223.7	234.4	252.2	253.7
142.5°	205.1	208.7	217.2	231.2	232.7
145°	193.2	194.5	200.1	211.2	215.0
147.5°	183.2	185.1	189.2	195.9	198.2
150°	174.1	176.6	177.0	181.6	185.3
152.5°	165.8	168.2	168.7	169.5	173.2
155°	158.2	160.8	160.3	162.0	162.0
157.5°	140.0	142.5	145.0	145.8	145.8
160°	135.0	136.7	139.2	139.2	140.0
162.5°	130.0	131.7	133.3	134.2	135.0
165°	125.8	127.5	128.3	129.2	130.0
167.5°	122.5	123.3	124.2	125.0	125.0
170°	119.2	120.0	120.8	120.8	121.7
172.5°	116.7	117.5	118.3	118.3	118.3
175°	115.0	115.0	115.8	115.8	116.7
177.5°	113.3	114.2	114.2	114.2	115.0
180°	113.3	113.3	113.3	113.3	113.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1249.8	1289.8	1336.4	1215.9	<i>1073.8</i>
110°	1153.9	1196.5	1245.2	1220.9	<i>1157.9</i>



(END OF REPORT)