

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: P828038

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828038  
REPORT IS A COMBINATION OF REPORTS P826302 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-N-UNV-L935-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

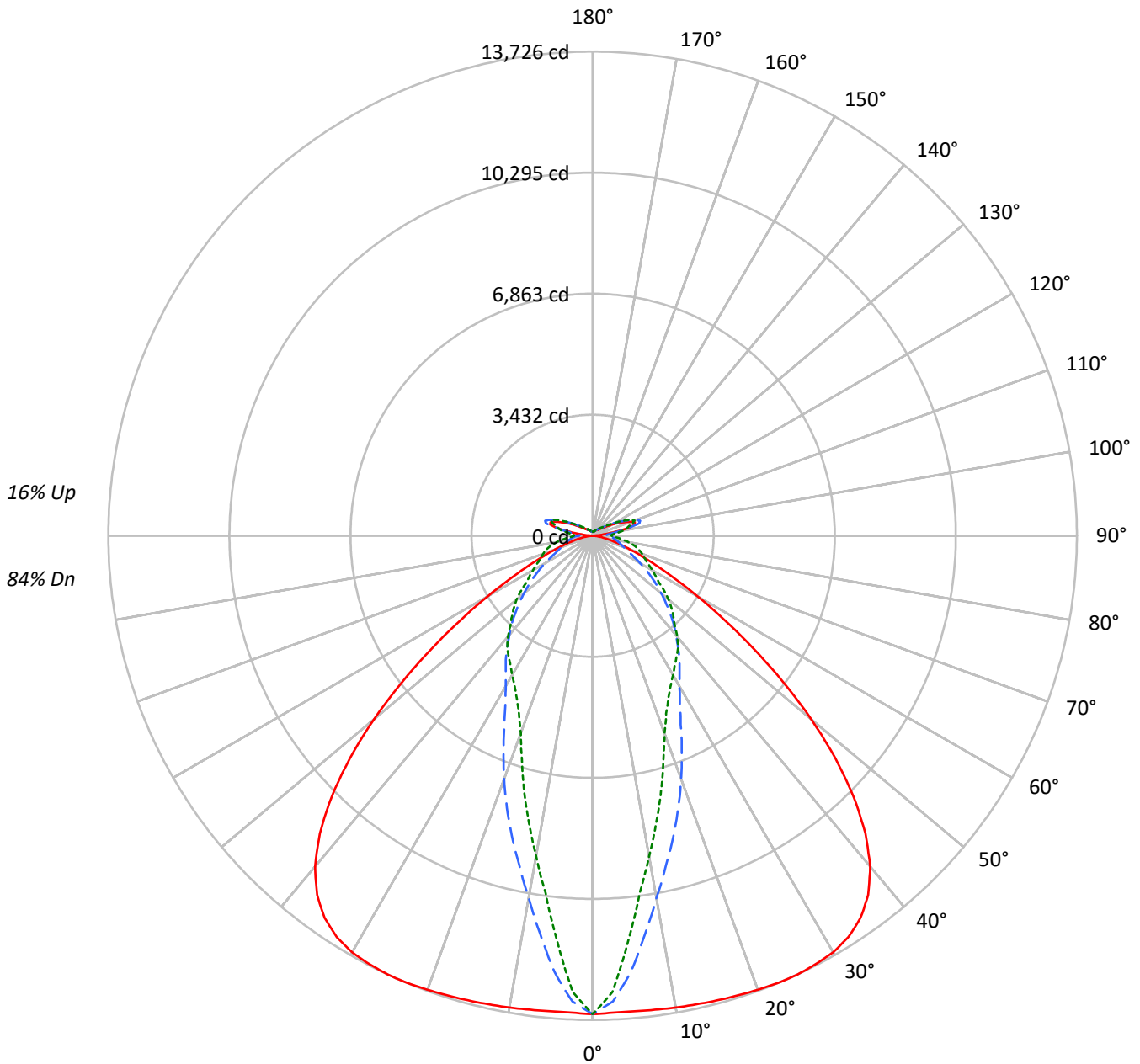
Lumens per Lamp: N/A  
Luminaire Lumens: 22997.6 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84																			
1	106	101	98	94	102	98	94	91	91	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	72	68	70	67	65	62																			
3	90	80	73	67	86	77	71	65	72	67	62	68	63	59	63	59	56	54																			
4	83	72	64	58	79	70	62	57	65	59	54	61	56	52	57	53	50	47																			
5	77	65	57	51	74	63	56	50	59	53	48	56	50	46	52	48	44	42																			
6	71	59	51	45	68	57	50	44	54	48	43	51	46	41	48	43	40	38																			
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34																			
8	62	50	42	37	60	48	41	36	46	40	35	44	38	34	41	36	33	31																			
9	58	46	39	33	56	45	38	33	43	36	32	40	35	31	38	34	30	28																			
10	55	43	35	31	53	42	35	30	40	34	29	38	32	29	36	31	28	26																			

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

	0°	45°	90°
0°	21444	21444	21444
5°	21310	19537	18245
10°	21460	16464	14701
15°	21785	14088	12127
20°	22297	11917	9859
25°	22960	9869	8685
30°	23634	8507	8115
35°	23994	7757	7780
40°	23441	7011	7433
45°	21416	6340	6936
50°	17923	5606	6570
55°	13488	4915	5912
60°	9339	4220	5738
65°	6184	3640	5718
70°	4134	3423	6148
75°	2778	3541	6812
80°	1810	3940	7456
85°	944	4973	8891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1141.4	5.0
10°-20°	2685.1	11.7
20°-30°	3365.8	14.6
30°-40°	3571.5	15.5
40°-50°	3229.2	14.0
50°-60°	2341.4	10.2
60°-70°	1469.3	6.4
70°-80°	972.4	4.2
80°-90°	566.6	2.5
90°-100°	500.7	2.2
100°-110°	1225.7	5.3
110°-120°	975.0	4.2
120°-130°	462.7	2.0
130°-140°	231.7	1.0
140°-150°	134.5	0.6
150°-160°	76.7	0.3
160°-170°	36.7	0.2
170°-180°	11.2	0.0
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0°-30°	7192.4	31.3
0°-40°	10763.9	46.8
0°-60°	16334.4	71.0
0°-90°	19342.7	84.1
90°-120°	2701.4	11.7
90°-150°	3530.3	15.4
90°-180°	3655.0	15.9
0°-180°	22997.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13560	13560	13560	13560	13560	
5°	13532	13185	12411	11835	11537	###
15°	13636	11114	8827	7850	7494	3867
25°	13726	8594	5911	5246	5080	6341
35°	13234	5713	4290	4156	4154	8227
45°	10462	3619	3109	3184	3238	7970
55°	5539	2243	2029	2200	2279	5005
65°	1981	1301	1174	1505	1672	2061
75°	612	701	788	1225	1298	682
85°	107	290	577	803	737	128
90°	7	162	387	531	536	12
95°	57	188	432	575	606	197
105°	1241	1285	1369	1143	1068	1180
115°	872	887	998	1040	1035	882
125°	438	458	521	533	523	411
135°	263	271	295	315	316	208
145°	197	203	209	222	222	125
155°	162	168	172	175	173	73
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°	13559.5	13559.5	13559.5	13559.5	13559.5
2.5°	13531.2	13453.8	13212.4	13065.2	12941.4
5°	13532.4	13185.2	12411.0	11835.4	11537.3
7.5°	13551.8	12780.1	11385.0	10544.8	10217.1
10°	13581.5	12278.1	10427.4	9531.8	9225.9
12.5°	13603.4	11712.8	9584.8	8664.6	8329.1
15°	13635.7	11114.0	8827.2	7850.2	7494.1
17.5°	13665.3	10550.0	8078.7	7057.9	6661.7
20°	13695.0	9942.2	7330.2	6278.4	5951.9
22.5°	13723.4	9300.8	6599.8	5673.2	5449.9
25°	13726.0	8593.6	5910.6	5246.0	5079.5
27.5°	13692.5	7860.6	5351.8	4888.5	4785.2
30°	13634.4	7149.5	4918.2	4630.4	4556.8
32.5°	13489.8	6424.3	4582.7	4381.3	4338.8
35°	13234.3	5713.2	4289.7	4155.5	4154.2
37.5°	12831.7	5082.1	3972.2	3949.0	3977.4
40°	12236.8	4529.8	3671.5	3733.5	3733.5
42.5°	11443.1	4049.7	3399.2	3462.5	3445.7
45°	10462.3	3618.7	3108.8	3183.8	3237.9
47.5°	9325.3	3239.2	2812.1	2956.6	3031.4
50°	8089.0	2877.8	2541.1	2725.6	2810.8
52.5°	6793.3	2543.6	2276.5	2488.2	2556.5
55°	5538.9	2242.9	2028.7	2200.3	2279.1
57.5°	4403.2	1956.4	1786.1	1948.7	2111.3
60°	3426.3	1709.9	1557.7	1789.9	1952.6
62.5°	2617.2	1490.6	1343.4	1641.6	1804.2
65°	1980.9	1300.8	1174.4	1504.8	1672.5
67.5°	1493.2	1136.9	1042.8	1405.4	1569.2
70°	1121.5	978.3	936.9	1343.4	1490.6
72.5°	828.5	832.4	853.0	1289.2	1401.5
75°	611.8	700.8	788.5	1224.7	1298.3
77.5°	437.5	580.8	730.4	1147.2	1173.1
80°	303.2	473.6	669.8	1045.3	1023.4
82.5°	189.7	379.4	615.6	933.1	872.4
85°	107.1	290.3	576.8	802.7	736.9
87.5°	47.8	216.8	504.6	625.9	584.6
90°	6.7	162.2	386.8	531.0	535.8
92.5°	23.4	150.7	372.6	511.0	528.9
95°	56.8	188.5	431.8	575.1	606.5
97.5°	318.1	409.8	567.0	719.2	754.7
100°	676.9	753.8	786.8	878.7	908.3
102.5°	1057.3	1124.4	1073.6	1006.0	991.3
105°	1241.2	1285.1	1369.2	1143.1	1067.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1021.2	1054.8	1163.0	1202.2	1182.0
115°	872.5	886.7	997.8	1039.8	1035.4
117.5°	749.7	760.7	859.0	887.9	880.0
120°	633.0	648.5	734.2	749.7	743.0
122.5°	527.2	549.2	619.5	633.1	621.0
125°	438.0	458.2	521.1	532.9	523.3
127.5°	376.7	384.3	438.5	452.4	451.2
130°	325.8	335.1	375.2	395.0	393.3
132.5°	289.6	298.8	330.4	350.9	353.4
135°	262.9	271.3	294.8	315.3	316.2
137.5°	241.2	250.1	265.4	286.4	287.2
140°	222.9	230.5	243.2	262.1	262.1
142.5°	209.2	215.5	224.8	240.3	240.3
145°	197.2	202.6	209.3	222.2	221.8
147.5°	187.2	193.1	198.5	205.8	205.3
150°	178.0	184.3	187.7	193.2	192.8
152.5°	169.7	176.0	179.3	182.8	182.3
155°	162.2	168.5	172.3	175.3	172.7
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°	1252.8	1297.9	1411.2	1324.2	1188.3
110°	1158.3	1205.2	1317.8	1318.0	1261.2



(END OF REPORT)