

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: P827756

Luminaire Tested: **OHBL-24SE-N-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827756  
REPORT IS A COMBINATION OF REPORTS P826308 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-24SE-N-UNV-L930-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

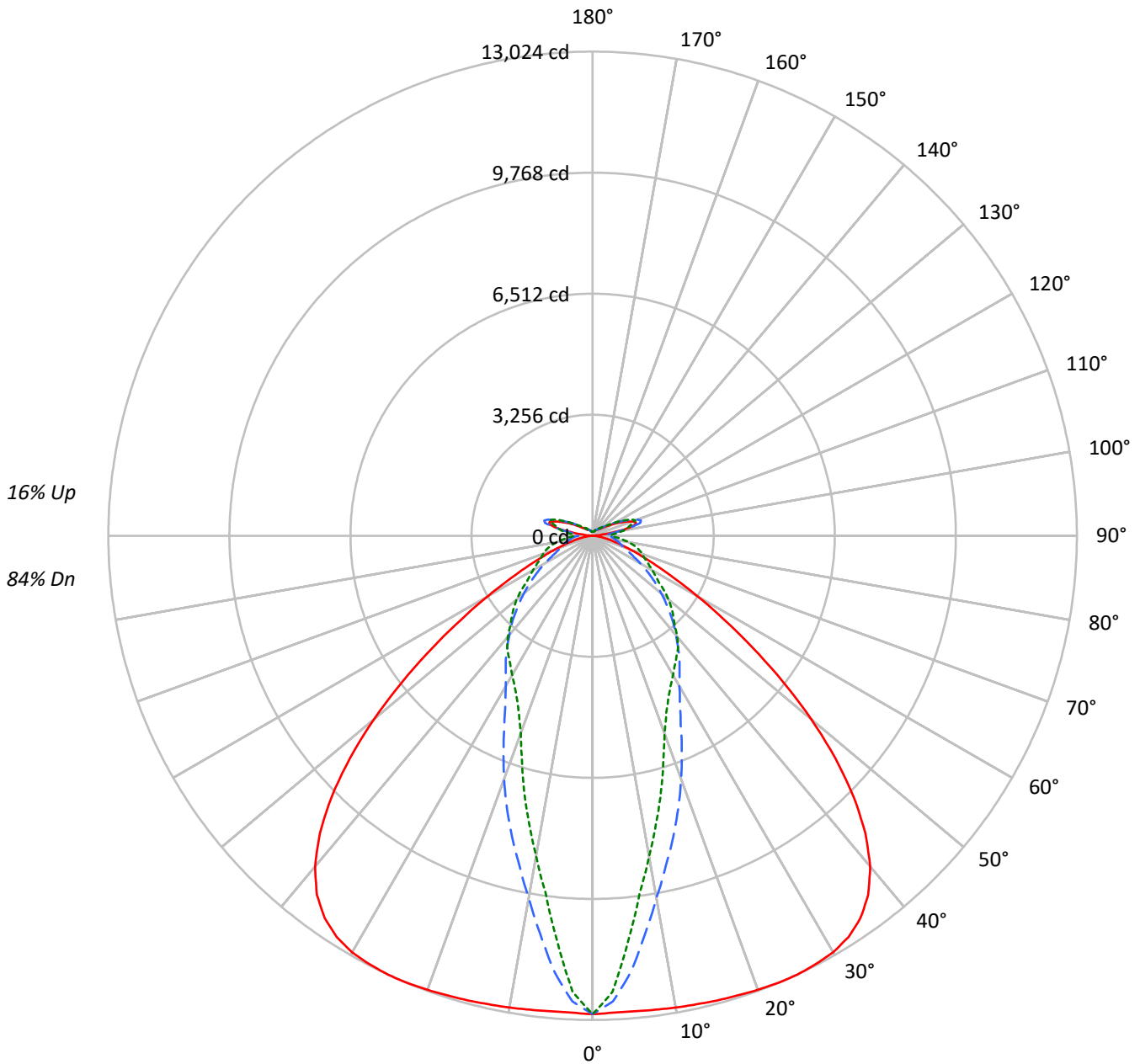
Lumens per Lamp: N/A  
Luminaire Lumens: 21884.9 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
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	94	94	94	87	87	87	84																			
1	106	101	97	94	102	98	94	91	90	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	71	68	70	67	64	62																			
3	90	80	73	67	86	77	71	65	72	67	62	67	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	45	41	48	43	40	37																			
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	39	35	43	38	34	41	36	33	31																			
9	58	46	38	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°	21976	21976	21976
5°	21824	20012	18697
10°	21963	16857	15066
15°	22281	14417	12427
20°	22790	12190	10103
25°	23451	10090	8900
30°	24122	8693	8316
35°	24470	7922	7973
40°	23884	7156	7617
45°	21799	6466	7108
50°	18223	5713	6733
55°	13694	5004	6058
60°	9466	4291	5880
65°	6255	3696	5860
70°	4169	3468	6300
75°	2790	3577	6981
80°	1806	3961	7641
85°	929	4956	9111



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1083.1	4.9
10°-20°	2547.9	11.6
20°-30°	3193.7	14.6
30°-40°	3388.9	15.5
40°-50°	3064.1	14.0
50°-60°	2221.7	10.2
60°-70°	1394.2	6.4
70°-80°	922.6	4.2
80°-90°	537.8	2.5
90°-100°	479.9	2.2
100°-110°	1185.0	5.4
110°-120°	943.3	4.3
120°-130°	447.7	2.0
130°-140°	224.2	1.0
140°-150°	130.1	0.6
150°-160°	74.3	0.3
160°-170°	35.6	0.2
170°-180°	10.9	0.0
0°-30°	6824.7	31.2
0°-40°	10213.6	46.7
0°-60°	15499.3	70.8
0°-90°	18353.9	83.9
90°-120°	2608.2	11.9
90°-150°	3410.2	15.6
90°-180°	3531.0	16.1
0°-180°	21884.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12866	12866	12866	12866	12866	
5°	12841	12511	11776	11230	10947	###
15°	12939	10546	8376	7449	7111	3669
25°	13024	8154	5608	4978	4820	6017
35°	12558	5421	4070	3943	3942	7806
45°	9927	3434	2950	3021	3072	7563
55°	5256	2128	1925	2088	2162	4749
65°	1880	1234	1114	1428	1587	1956
75°	580	665	748	1162	1232	647
85°	102	276	547	762	699	122
90°	6	155	368	505	510	11
95°	55	181	413	549	579	191
105°	1204	1245	1324	1103	1029	1145
115°	846	859	965	1005	1000	855
125°	424	444	504	515	506	398
135°	255	263	285	305	306	201
145°	191	196	203	215	214	121
155°	157	163	167	170	167	71
165°	122	124	124	125	126	35
175°	112	112	112	112	113	11
180°	110	110	110	110	110	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12866.3	12866.3	12866.3	12866.3	12866.3
2.5°	12839.4	12765.9	12536.9	12397.3	12279.7
5°	12840.6	12511.2	11776.4	11230.3	10947.4
7.5°	12859.0	12126.7	10803.0	10005.8	9694.7
10°	12887.1	11650.3	9894.3	9044.5	8754.2
12.5°	12908.0	11114.0	9094.7	8221.6	7903.2
15°	12938.6	10545.8	8375.9	7449.0	7110.9
17.5°	12966.7	10010.6	7665.7	6697.0	6321.1
20°	12994.8	9433.9	6955.4	5957.4	5647.6
22.5°	13021.8	8825.3	6262.3	5383.1	5171.2
25°	13024.3	8154.2	5608.5	4977.8	4819.8
27.5°	12992.4	7458.7	5078.2	4638.6	4540.7
30°	12937.3	6784.0	4666.8	4393.7	4323.9
32.5°	12800.2	6095.8	4348.3	4157.3	4116.9
35°	12557.7	5421.1	4070.4	3943.0	3941.8
37.5°	12175.7	4822.3	3769.2	3747.1	3774.0
40°	11611.1	4298.2	3483.8	3542.6	3542.6
42.5°	10858.0	3842.7	3225.5	3285.5	3269.5
45°	9927.4	3433.6	2949.9	3021.0	3072.4
47.5°	8848.6	3073.6	2668.3	2805.4	2876.5
50°	7675.4	2730.7	2411.1	2586.3	2667.1
52.5°	6446.0	2413.6	2160.1	2360.9	2425.8
55°	5255.8	2128.3	1925.0	2087.8	2162.5
57.5°	4178.1	1856.4	1694.8	1849.1	2003.4
60°	3251.2	1622.5	1478.0	1698.5	1852.7
62.5°	2483.4	1414.3	1274.7	1557.7	1711.9
65°	1879.7	1234.3	1114.4	1427.8	1587.0
67.5°	1416.8	1078.8	989.4	1333.5	1489.0
70°	1064.2	928.2	889.0	1274.7	1414.3
72.5°	786.2	789.8	809.5	1223.3	1329.9
75°	580.5	664.9	748.2	1162.1	1231.9
77.5°	415.2	551.0	693.1	1088.6	1113.1
80°	287.8	449.4	635.5	991.9	971.1
82.5°	180.0	360.0	584.1	885.4	827.8
85°	101.6	275.6	547.4	761.7	699.2
87.5°	45.3	205.7	478.8	593.9	554.8
90°	6.5	154.7	368.1	505.1	509.7
92.5°	22.6	144.0	354.9	486.6	503.7
95°	55.0	181.1	412.6	549.3	579.4
97.5°	308.5	396.0	544.2	689.8	723.9
100°	656.4	729.8	757.7	845.0	873.5
102.5°	1025.5	1089.4	1036.4	969.3	954.8
105°	1203.7	1245.4	1323.6	1102.8	1029.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	990.3	1022.1	1124.7	1161.9	1142.1
115°	846.1	859.3	964.9	1004.8	1000.4
117.5°	726.9	737.1	830.6	857.9	850.2
120°	613.7	628.4	710.0	724.3	717.9
122.5°	511.0	532.1	599.0	611.7	600.0
125°	424.5	443.9	503.8	515.0	505.7
127.5°	365.1	372.4	424.1	437.2	436.0
130°	315.8	324.7	363.0	381.8	380.2
132.5°	280.6	289.5	319.6	339.3	341.7
135°	254.7	262.9	285.3	304.8	305.6
137.5°	233.7	242.3	256.9	276.9	277.7
140°	215.9	223.3	235.5	253.3	253.3
142.5°	202.6	208.7	217.6	232.3	232.3
145°	190.9	196.2	202.6	214.9	214.5
147.5°	181.2	186.9	192.1	199.1	198.7
150°	172.3	178.4	181.6	187.0	186.6
152.5°	164.3	170.3	173.5	176.9	176.4
155°	157.0	163.0	166.7	169.6	167.1
157.5°	135.8	138.2	140.6	141.5	141.5
160°	131.0	132.6	135.0	135.0	135.8
162.5°	126.1	127.7	129.3	130.1	131.0
165°	122.1	123.7	124.5	125.3	126.1
167.5°	118.8	119.6	120.4	121.2	121.2
170°	115.6	116.4	117.2	117.2	118.0
172.5°	113.2	114.0	114.8	114.8	114.8
175°	111.6	111.6	112.4	112.4	113.2
177.5°	109.9	110.7	110.7	110.7	111.6
180°	109.9	109.9	109.9	109.9	109.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1215.0	1257.8	1364.7	1279.1	1147.0
110°	1123.3	1168.1	1274.4	1273.6	1218.3



(END OF REPORT)