

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: P828653

Luminaire Tested: **OHBL-24SE-MFL-UNV-L950-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828653
REPORT IS A COMBINATION OF REPORTS P826307 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-MFL-UNV-L950-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

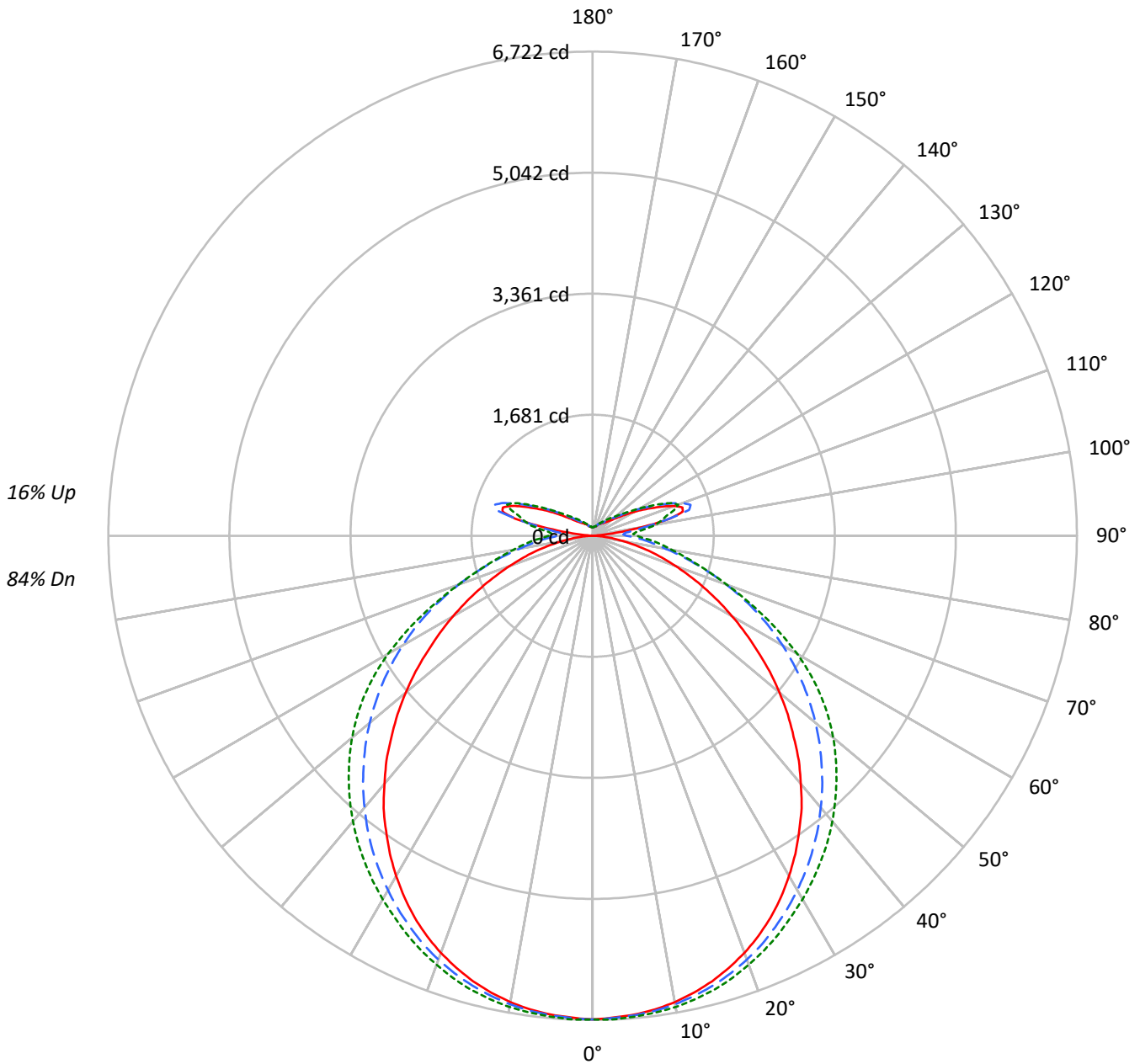
Lumens per Lamp: N/A
Luminaire Lumens: 23212.5 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 166.8
Input Voltage (V): NR
Input Current (A_{in}): 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	105	100	95	91	100	96	92	88	89	85	83	82	80	77	76	74	72	69																			
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	66	63	60	57																			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	54	51	48																			
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41																			
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35																			
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31																			
7	62	49	40	34	59	47	39	34	44	37	32	41	35	31	39	34	30	27																			
8	58	44	36	30	55	43	35	30	40	34	29	38	32	28	36	30	26	24																			
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22																			
10	50	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11470	11470	11470
5°	11341	11356	11444
10°	11207	11251	11433
15°	11027	11126	11403
20°	10806	10974	11337
25°	10529	10786	11272
30°	10168	10583	11209
35°	9742	10367	11166
40°	9243	10117	11131
45°	8665	9846	11076
50°	8038	9572	11003
55°	7284	9237	10834
60°	6513	8842	10406
65°	5677	8340	9637
70°	4777	7701	8814
75°	3862	6962	8382
80°	2754	6413	8781
85°	1532	6606	11008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.3	2.7
10°-20°	1825.5	7.9
20°-30°	2760.8	11.9
30°-40°	3314.3	14.3
40°-50°	3423.2	14.7
50°-60°	3079.8	13.3
60°-70°	2319.9	10.0
70°-80°	1400.9	6.0
80°-90°	691.8	3.0
90°-100°	527.6	2.3
100°-110°	1248.0	5.4
110°-120°	993.3	4.3
120°-130°	479.0	2.1
130°-140°	243.6	1.0
140°-150°	139.6	0.6
150°-160°	78.9	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.1
0°-30°	5222.6	22.5
0°-40°	8536.9	36.8
0°-60°	15039.9	64.8
0°-90°	19452.5	83.8
90°-120°	2768.9	11.9
90°-150°	3631.2	15.6
90°-180°	3760.0	16.2
0°-180°	23212.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6715	6715	6715	6715	6715	
5°	6673	6691	6683	6709	6701	634
15°	6403	6434	6464	6518	6525	1805
25°	5848	5912	5996	6089	6104	2690
35°	5000	5116	5327	5488	5520	3125
45°	3946	4145	4492	4737	4788	3046
55°	2796	3085	3553	3821	3867	2506
65°	1706	2054	2515	2640	2610	1695
75°	804	1154	1456	1494	1479	857
85°	168	442	730	830	845	194
90°	7	215	472	588	611	15
95°	62	224	456	580	609	208
105°	1296	1349	1386	1133	1056	1232
115°	909	921	1002	1046	1044	919
125°	454	474	534	556	552	427
135°	272	282	308	336	343	215
145°	206	209	215	230	236	131
155°	170	174	175	175	176	77
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6715.4	6715.4	6715.4	6715.4	6715.4
2.5°	6695.7	6712.1	6702.3	6723.6	6722.0
5°	6672.6	6690.7	6682.6	6708.8	6700.6
7.5°	6633.3	6653.0	6651.3	6680.9	6677.6
10°	6575.7	6597.1	6603.7	6643.1	6643.1
12.5°	6496.8	6524.7	6541.2	6588.8	6590.5
15°	6403.1	6434.3	6464.0	6518.2	6524.7
17.5°	6289.7	6329.2	6370.2	6432.8	6440.9
20°	6161.6	6205.9	6261.8	6327.6	6337.4
22.5°	6013.6	6066.2	6138.5	6215.7	6227.3
25°	5847.6	5911.7	5995.5	6089.2	6104.0
27.5°	5658.6	5732.6	5846.0	5951.2	5964.3
30°	5453.2	5540.3	5681.6	5806.6	5827.9
32.5°	5236.2	5336.5	5510.7	5650.4	5680.0
35°	4999.6	5116.2	5326.7	5487.7	5520.5
37.5°	4766.2	4894.4	5132.7	5316.7	5356.2
40°	4493.4	4652.8	4925.6	5129.4	5177.1
42.5°	4237.0	4409.6	4718.6	4940.4	4986.4
45°	3946.1	4145.0	4491.7	4736.6	4787.6
47.5°	3673.2	3888.6	4273.1	4526.2	4578.8
50°	3385.6	3622.3	4039.8	4304.4	4358.6
52.5°	3098.0	3352.8	3798.2	4072.7	4123.6
55°	2795.6	3084.9	3553.2	3821.2	3867.2
57.5°	2514.6	2820.3	3301.8	3556.5	3584.5
60°	2236.8	2554.0	3045.4	3268.9	3278.8
62.5°	1965.6	2299.2	2782.5	2959.9	2946.8
65°	1705.9	2054.4	2514.6	2639.5	2609.9
67.5°	1456.1	1816.1	2240.1	2320.6	2281.2
70°	1219.5	1584.4	1973.9	2014.9	1978.8
72.5°	1010.7	1364.2	1704.3	1738.8	1712.5
75°	803.7	1153.8	1456.1	1494.0	1479.2
77.5°	609.7	950.0	1227.7	1277.0	1280.3
80°	438.8	764.2	1028.8	1106.1	1115.9
82.5°	289.3	593.3	862.8	961.4	976.2
85°	167.6	442.1	729.7	830.0	844.8
87.5°	72.3	318.8	586.7	677.1	695.2
90°	7.0	215.2	472.2	588.5	610.8
92.5°	26.7	195.2	425.2	540.4	563.7
95°	62.2	224.5	455.8	580.4	609.0
97.5°	335.0	448.1	574.6	709.4	745.0
100°	708.0	801.9	790.6	864.0	894.5
102.5°	1103.6	1184.2	1081.8	991.3	976.8
105°	1295.6	1348.9	1385.8	1133.1	1055.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1065.2	1099.0	1170.0	1209.2	1188.0
115°	908.7	921.2	1002.0	1045.9	1043.9
117.5°	780.8	790.2	862.8	895.5	890.9
120°	659.0	672.2	740.1	760.8	760.4
122.5°	548.6	569.1	629.3	651.9	645.5
125°	453.9	474.5	534.3	556.0	552.3
127.5°	389.7	398.2	453.2	478.4	483.3
130°	336.6	345.3	391.0	420.6	423.9
132.5°	300.1	310.4	345.4	374.3	383.5
135°	272.3	281.7	308.4	335.7	343.1
137.5°	249.7	258.2	276.6	304.0	311.4
140°	232.2	239.1	252.6	275.7	282.3
142.5°	218.2	223.4	231.1	251.8	256.7
145°	206.0	208.7	214.7	230.4	236.2
147.5°	195.5	199.0	203.4	210.8	216.6
150°	186.0	190.2	192.1	195.5	201.3
152.5°	177.3	181.5	183.4	182.6	186.8
155°	169.5	173.7	174.7	174.8	176.4
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1307.8	1358.2	1427.1	1326.8	1183.7
110°	1207.8	1260.3	1329.0	1325.5	1265.0



(END OF REPORT)