

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: P827730

Luminaire Tested: **OHBL-24HE-MCL-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827730
REPORT IS A COMBINATION OF REPORTS P826072 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MCL-UNV-L930-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

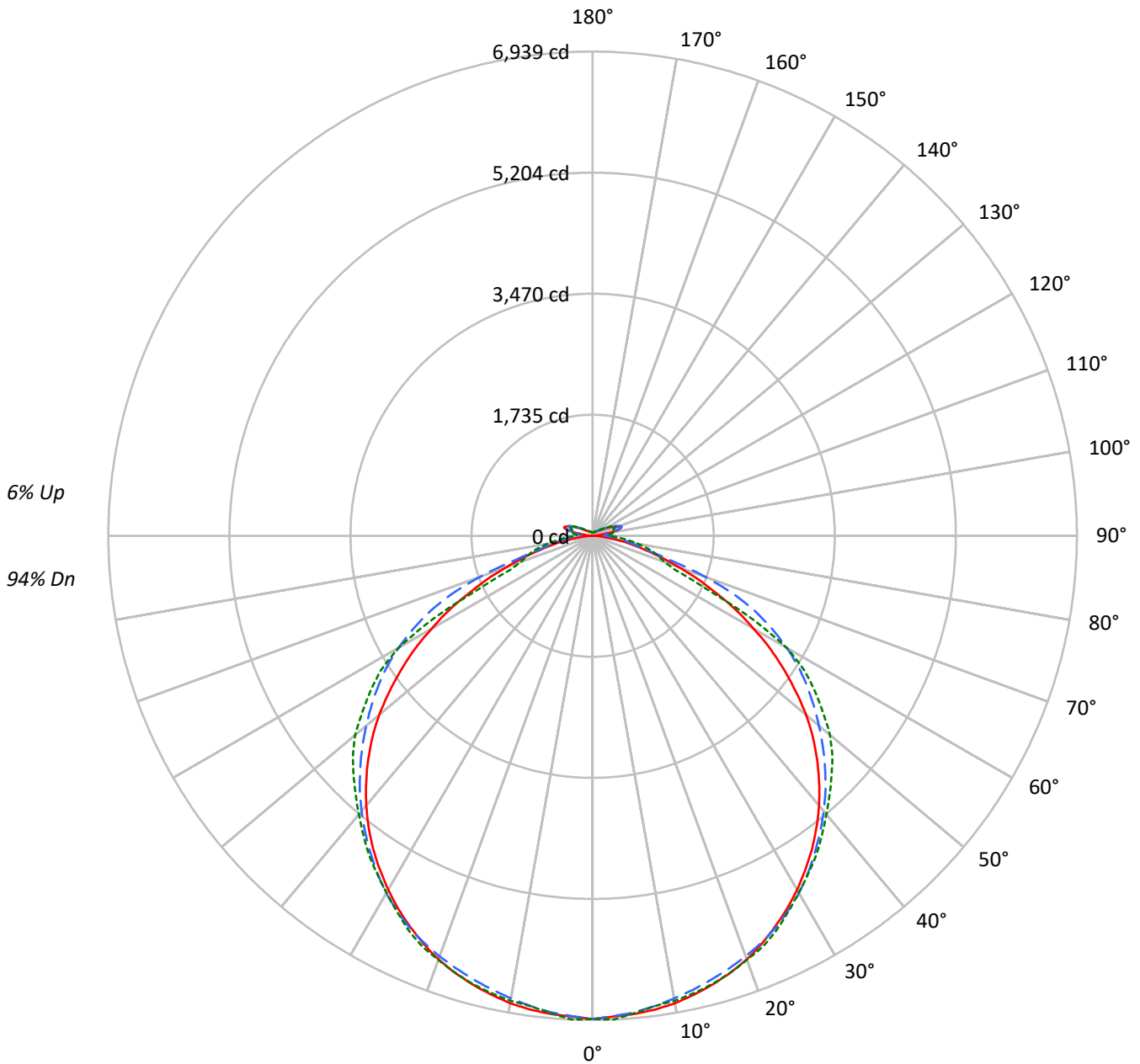
Lumens per Lamp: N/A
Luminaire Lumens: 20578.8 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 141.4
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

TEST NUMBER: P827730

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L930-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P827730

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L930-CD-UPL12

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	59	53	62	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10951	10951	10951
5°	10834	10792	10861
10°	10748	10629	10785
15°	10634	10506	10760
20°	10519	10429	10712
25°	10344	10352	10667
30°	10155	10230	10518
35°	9937	10036	10463
40°	9667	9835	10373
45°	9311	9603	10376
50°	8848	9339	10377
55°	8151	9080	10087
60°	7262	8700	9439
65°	6133	7994	6076
70°	4835	6241	4501
75°	3510	3705	4718
80°	2314	3080	4756
85°	1173	2822	5001



TEST NUMBER: P827730

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L930-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.9	3.2
10°-20°	1872.3	9.1
20°-30°	2859.6	13.9
30°-40°	3469.7	16.9
40°-50°	3636.5	17.7
50°-60°	3295.2	16.0
60°-70°	2209.3	10.7
70°-80°	992.1	4.8
80°-90°	362.6	1.8
90°-100°	204.5	1.0
100°-110°	385.7	1.9
110°-120°	313.0	1.5
120°-130°	151.9	0.7
130°-140°	78.6	0.4
140°-150°	46.6	0.2
150°-160°	28.2	0.1
160°-170°	15.3	0.1
170°-180°	4.7	0.0
0°-30°	5384.8	26.2
0°-40°	8854.5	43.0
0°-60°	15786.3	76.7
0°-90°	19350.3	94.0
90°-120°	903.3	4.4
90°-150°	1180.4	5.7
90°-180°	1229.0	6.0
0°-180°	20578.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6925	6925	6925	6925	6925	
5°	6880	6904	6856	6877	6868	654
15°	6656	6630	6583	6641	6649	1879
25°	6184	6157	6200	6257	6239	2850
35°	5481	5494	5550	5609	5587	3426
45°	4549	4623	4709	4829	4844	3504
55°	3347	3508	3748	3898	3889	2988
65°	1964	2272	2579	2177	1777	1957
75°	773	1121	825	844	899	845
85°	133	255	327	396	414	162
90°	3	100	189	237	251	10
95°	21	100	186	235	254	68
105°	422	436	410	319	302	400
115°	299	303	321	326	324	298
125°	149	156	169	171	172	140
135°	91	95	99	105	106	73
145°	70	72	73	75	77	44
155°	58	60	61	62	61	27
165°	53	53	54	54	54	15
175°	49	49	48	47	47	5
180°	47	47	47	47	47	



TEST NUMBER: P827730

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L930-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6924.7	6924.7	6924.7	6924.7	6924.7
2.5°	6896.6	6925.6	6889.6	6928.6	6938.7
5°	6879.6	6903.7	6855.6	6876.6	6867.6
7.5°	6848.5	6856.6	6799.5	6816.5	6798.5
10°	6802.5	6798.5	6731.4	6764.5	6768.4
12.5°	6734.4	6722.4	6662.4	6712.4	6713.4
15°	6656.3	6630.3	6583.2	6641.3	6649.3
17.5°	6566.2	6532.1	6501.1	6576.2	6564.2
20°	6461.1	6421.0	6415.0	6497.1	6467.1
22.5°	6330.9	6299.9	6313.9	6392.0	6373.0
25°	6183.8	6156.7	6199.8	6256.8	6238.8
27.5°	6028.6	6012.5	6061.6	6105.7	6070.6
30°	5858.3	5849.3	5914.4	5950.5	5906.4
32.5°	5673.1	5676.1	5738.2	5787.3	5746.2
35°	5480.8	5493.8	5549.9	5609.0	5587.0
37.5°	5269.6	5298.6	5354.7	5421.7	5398.8
40°	5046.3	5088.4	5150.5	5231.5	5210.5
42.5°	4805.0	4858.1	4938.2	5028.3	5026.3
45°	4548.7	4622.8	4708.9	4829.1	4844.0
47.5°	4282.4	4365.5	4474.6	4634.8	4657.9
50°	3993.0	4097.1	4233.3	4425.5	4439.5
52.5°	3670.6	3812.7	3993.0	4177.2	4160.2
55°	3347.1	3508.4	3747.7	3897.9	3888.9
57.5°	3024.8	3206.0	3496.4	3603.5	3602.5
60°	2664.3	2893.6	3211.0	3292.1	3212.0
62.5°	2330.9	2577.2	2906.6	2847.6	2573.2
65°	1964.5	2271.8	2579.2	2176.7	1777.2
67.5°	1639.1	1959.5	2190.7	1490.9	1276.6
70°	1311.6	1665.1	1708.2	1106.4	1091.3
72.5°	1021.2	1397.8	1178.5	947.2	995.2
75°	772.9	1121.4	825.1	844.1	899.1
77.5°	563.7	861.0	641.8	739.9	785.0
80°	387.5	609.7	523.6	621.8	652.8
82.5°	243.3	402.5	419.5	500.6	532.7
85°	133.1	255.4	327.4	395.5	414.5
87.5°	55.0	154.2	250.3	305.4	321.4
90°	3.4	99.7	188.6	237.3	250.6
92.5°	8.2	83.7	168.9	214.9	225.9
95°	21.2	99.9	185.7	235.0	253.5
97.5°	111.1	160.9	231.3	275.6	287.7
100°	226.1	275.2	280.7	306.7	313.7
102.5°	358.9	378.1	323.5	313.3	312.3
105°	422.0	436.1	409.5	318.9	301.7



TEST NUMBER: P827730

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L930-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	344.9	354.3	371.9	368.0	356.2
115°	299.0	303.0	320.8	326.4	323.6
117.5°	252.1	257.4	274.8	278.4	278.8
120°	212.5	218.3	233.0	234.7	235.8
122.5°	180.2	184.2	197.6	200.2	202.1
125°	149.3	155.9	169.2	170.6	172.4
127.5°	126.8	131.7	145.3	147.5	148.6
130°	111.5	115.7	124.7	129.6	129.6
132.5°	101.1	104.6	110.8	115.7	116.5
135°	91.4	94.9	99.1	104.9	106.0
137.5°	86.0	87.6	90.0	95.9	97.6
140°	79.5	82.0	82.5	87.4	88.4
142.5°	73.6	76.3	76.9	80.8	82.5
145°	69.6	72.3	73.1	74.9	76.7
147.5°	66.6	68.2	69.8	69.8	71.6
150°	64.2	65.0	65.8	66.6	66.6
152.5°	60.9	61.8	62.6	63.4	63.4
155°	58.5	60.3	61.1	61.9	60.9
157.5°	56.1	58.7	58.7	59.5	59.5
160°	54.5	56.3	57.1	57.1	57.1
162.5°	53.8	54.6	54.6	55.5	55.5
165°	53.0	53.0	53.8	53.8	53.8
167.5°	51.4	52.5	52.2	52.2	52.2
170°	50.6	50.6	50.6	50.4	50.4
172.5°	49.8	49.8	49.8	48.8	48.8
175°	49.0	49.0	48.0	47.0	47.0
177.5°	49.2	49.0	48.0	47.0	46.0
180°	47.2	47.2	47.2	47.2	47.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	425.3	440.9	437.9	360.6	310.9
110°	390.7	406.4	413.7	389.5	350.3



(END OF REPORT)