

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: P827731

Luminaire Tested: **OHBL-24HE-MCL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827731
REPORT IS A COMBINATION OF REPORTS P826240 AND G3-2310-221-6
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-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

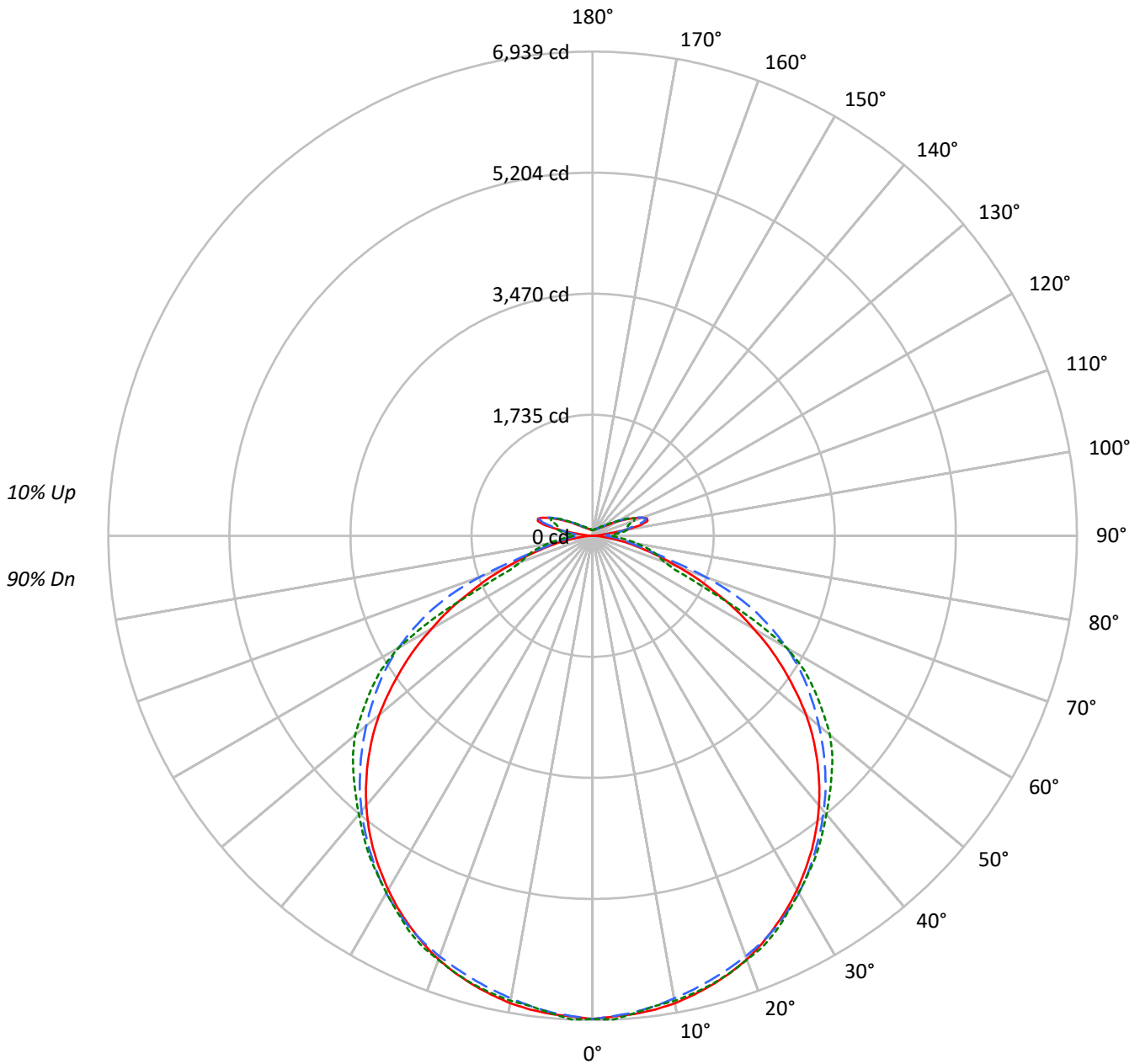
Lumens per Lamp: N/A
Luminaire Lumens: 21528.6 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 150.4
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76																			
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	64																			
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	25																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.9	3.0
10°-20°	1872.3	8.7
20°-30°	2859.6	13.3
30°-40°	3469.7	16.1
40°-50°	3636.5	16.9
50°-60°	3295.2	15.3
60°-70°	2209.3	10.3
70°-80°	992.1	4.6
80°-90°	365.0	1.7
90°-100°	295.8	1.4
100°-110°	701.8	3.3
110°-120°	583.7	2.7
120°-130°	281.9	1.3
130°-140°	143.7	0.7
140°-150°	84.2	0.4
150°-160°	50.1	0.2
160°-170°	26.6	0.1
170°-180°	8.1	0.0
0°-30°	5384.8	25.0
0°-40°	8854.5	41.1
0°-60°	15786.3	73.3
0°-90°	19352.7	89.9
90°-120°	1581.3	7.3
90°-150°	2091.0	9.7
90°-180°	2176.0	10.1
0°-180°	21528.6	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°	5	113	207	262	278	11
95°	44	143	255	326	354	134
105°	815	825	739	555	518	774
115°	567	577	594	600	598	572
125°	280	296	312	314	312	263
135°	171	175	182	188	191	135
145°	126	130	133	135	136	81
155°	104	106	108	109	108	49
165°	92	93	93	93	93	26
175°	84	85	84	83	83	8
180°	83	83	83	83	83	



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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°	5.0	112.6	207.2	262.4	278.1
92.5°	14.7	101.4	196.3	253.7	271.2
95°	43.8	142.8	255.2	325.5	353.7
97.5°	219.5	277.3	350.2	423.5	454.2
100°	449.2	508.8	463.4	502.3	512.6
102.5°	693.6	713.5	567.6	529.9	526.5
105°	814.8	824.9	739.3	554.9	518.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	660.2	676.8	683.9	674.4	650.5
115°	567.4	577.1	594.0	600.4	597.6
117.5°	486.5	489.4	507.6	512.8	515.6
120°	404.1	413.9	434.3	435.2	431.4
122.5°	340.2	349.9	365.8	369.2	365.4
125°	280.2	295.8	311.5	313.6	312.3
127.5°	239.2	249.7	265.8	269.6	269.8
130°	209.3	216.7	229.8	234.7	235.5
132.5°	187.6	194.3	203.0	210.2	209.4
135°	170.6	174.9	181.6	188.2	190.8
137.5°	157.9	160.4	165.2	172.7	173.6
140°	145.8	149.1	152.0	157.7	159.5
142.5°	134.3	138.5	140.7	145.4	146.4
145°	126.2	130.5	132.9	134.7	136.5
147.5°	120.0	123.2	124.8	126.4	127.4
150°	114.3	115.9	118.3	119.1	120.0
152.5°	108.6	110.3	112.7	113.5	113.5
155°	103.8	106.4	108.0	108.8	107.8
157.5°	99.7	102.3	104.0	104.8	104.8
160°	96.5	98.3	99.9	100.7	100.7
162.5°	94.3	95.1	95.9	96.7	96.7
165°	91.8	92.6	93.4	93.4	93.4
167.5°	89.4	90.5	90.2	91.0	91.0
170°	87.0	87.8	87.8	87.6	87.6
172.5°	85.4	86.2	86.2	85.2	86.0
175°	83.7	84.6	83.6	83.3	83.3
177.5°	84.8	83.7	82.8	81.7	80.8
180°	82.8	82.8	82.8	82.8	82.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	819.0	836.2	803.2	648.4	551.8
110°	756.9	774.2	762.9	709.6	632.4



(END OF REPORT)