

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: P827732

Luminaire Tested: **OHBL-24HE-MCL-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827732
REPORT IS A COMBINATION OF REPORTS P826300 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-MCL-UNV-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

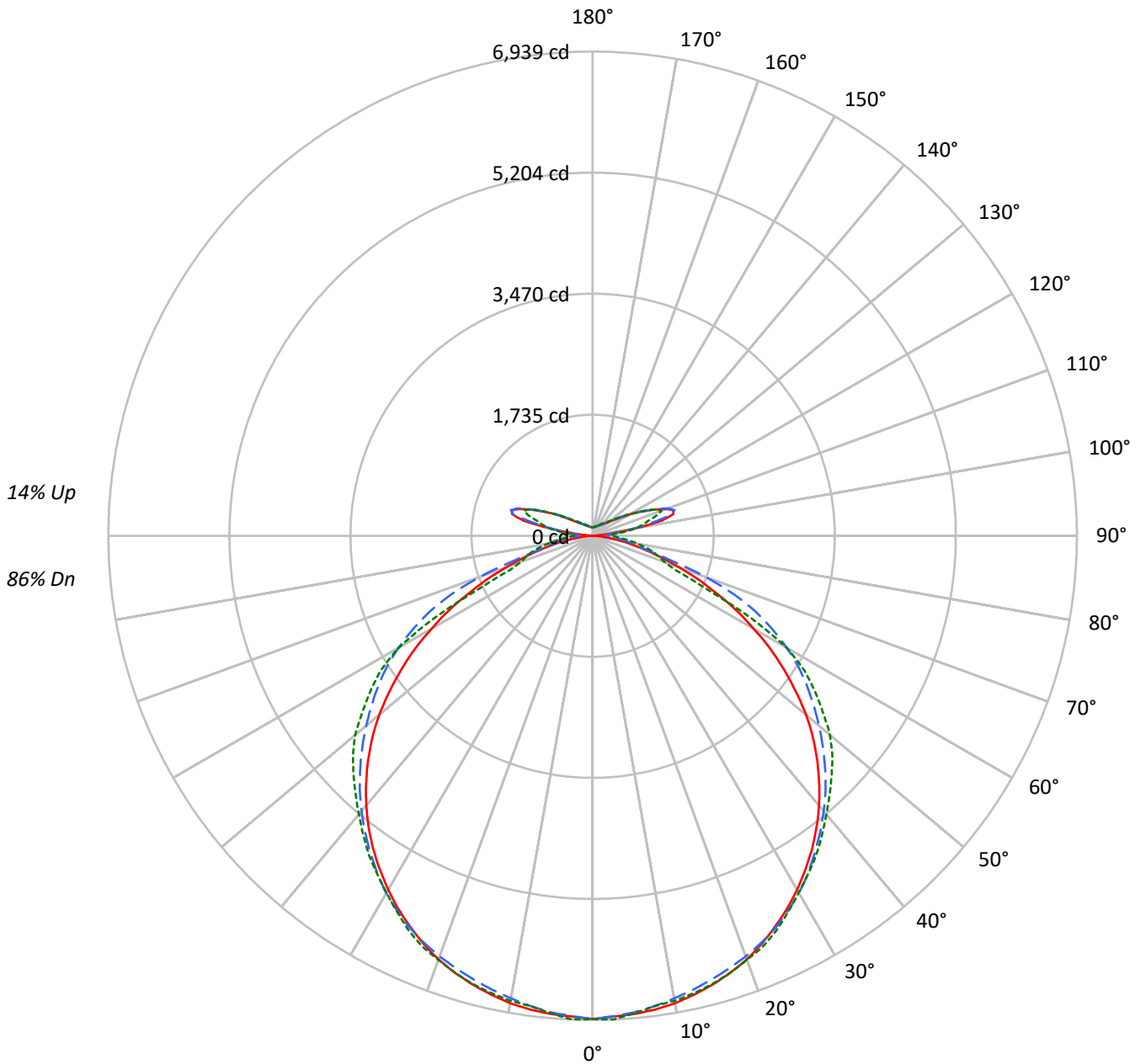
Lumens per Lamp: N/A
Luminaire Lumens: 22467.7 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 161.8
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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61																			
3	88	78	70	64	84	75	68	62	70	65	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38																			
6	68	55	47	41	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	29																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	29	25	24																			
10	51	39	31	26	49	38	30	25	36	29	25	34	28	24	32	27	23	21																			

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	2.9
10°-20°	1872.3	8.3
20°-30°	2859.6	12.7
30°-40°	3469.7	15.4
40°-50°	3636.5	16.2
50°-60°	3295.2	14.7
60°-70°	2209.3	9.8
70°-80°	992.1	4.4
80°-90°	366.2	1.6
90°-100°	330.7	1.5
100°-110°	1058.4	4.7
110°-120°	859.3	3.8
120°-130°	408.7	1.8
130°-140°	209.5	0.9
140°-150°	123.3	0.5
150°-160°	73.3	0.3
160°-170°	38.7	0.2
170°-180°	11.9	0.1
0°-30°	5384.8	24.0
0°-40°	8854.5	39.4
0°-60°	15786.3	70.3
0°-90°	19353.9	86.1
90°-120°	2248.4	10.0
90°-150°	2989.8	13.3
90°-180°	3114.0	13.9
0°-180°	22467.7	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°	7	125	220	270	281	12
95°	51	153	250	311	328	188
105°	1198	1214	1177	902	825	1139
115°	841	833	857	870	864	849
125°	417	432	452	448	441	393
135°	252	258	266	273	275	199
145°	185	190	194	198	200	118
155°	152	156	158	160	159	71
165°	133	135	136	136	137	38
175°	122	122	122	121	122	12
180°	120	120	120	120	120	



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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°	7.4	124.7	220.1	270.5	281.3
92.5°	21.2	113.6	200.4	248.8	260.7
95°	51.1	153.3	249.5	311.0	327.9
97.5°	304.3	367.0	379.3	454.2	477.6
100°	652.1	701.1	597.6	618.7	637.9
102.5°	1020.9	1058.7	882.9	756.3	735.0
105°	1198.0	1214.5	1177.4	902.5	824.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	985.1	994.5	1005.6	1011.5	987.5
115°	840.6	833.3	856.8	870.4	864.4
117.5°	720.1	714.1	735.6	738.3	731.5
120°	607.0	607.9	629.1	622.7	617.3
122.5°	504.3	515.6	532.3	529.2	519.8
125°	416.9	432.4	452.1	447.8	440.8
127.5°	359.6	364.5	383.8	382.7	383.8
130°	310.3	317.8	331.7	337.3	335.7
132.5°	277.3	284.9	295.9	302.4	304.8
135°	251.5	258.2	265.6	273.1	274.9
137.5°	231.5	236.4	241.2	250.3	252.0
140°	213.7	218.6	222.4	229.6	230.6
142.5°	198.1	204.0	207.0	212.5	213.5
145°	185.2	190.3	194.3	197.7	199.6
147.5°	176.5	179.8	183.8	184.6	186.4
150°	167.6	170.1	173.3	174.9	175.7
152.5°	159.6	162.0	165.2	166.0	166.8
155°	152.3	155.7	158.1	159.7	158.8
157.5°	145.8	149.2	151.6	152.5	152.5
160°	141.0	143.6	146.0	146.0	146.8
162.5°	137.1	138.7	140.3	141.1	141.9
165°	133.1	134.7	135.5	136.3	137.1
167.5°	129.8	131.7	131.4	132.2	132.2
170°	126.6	127.4	128.2	127.2	128.0
172.5°	124.2	125.0	125.8	124.8	124.8
175°	122.5	122.5	122.4	121.3	122.1
177.5°	122.0	121.7	120.8	119.7	119.6
180°	120.0	120.0	120.0	120.0	120.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1210.2	1226.6	1227.6	1097.0	958.4
110°	1118.2	1138.8	1145.2	1108.1	1046.3



(END OF REPORT)