

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: P827735

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827735
REPORT IS A COMBINATION OF REPORTS P826301 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-MFL-UNV-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

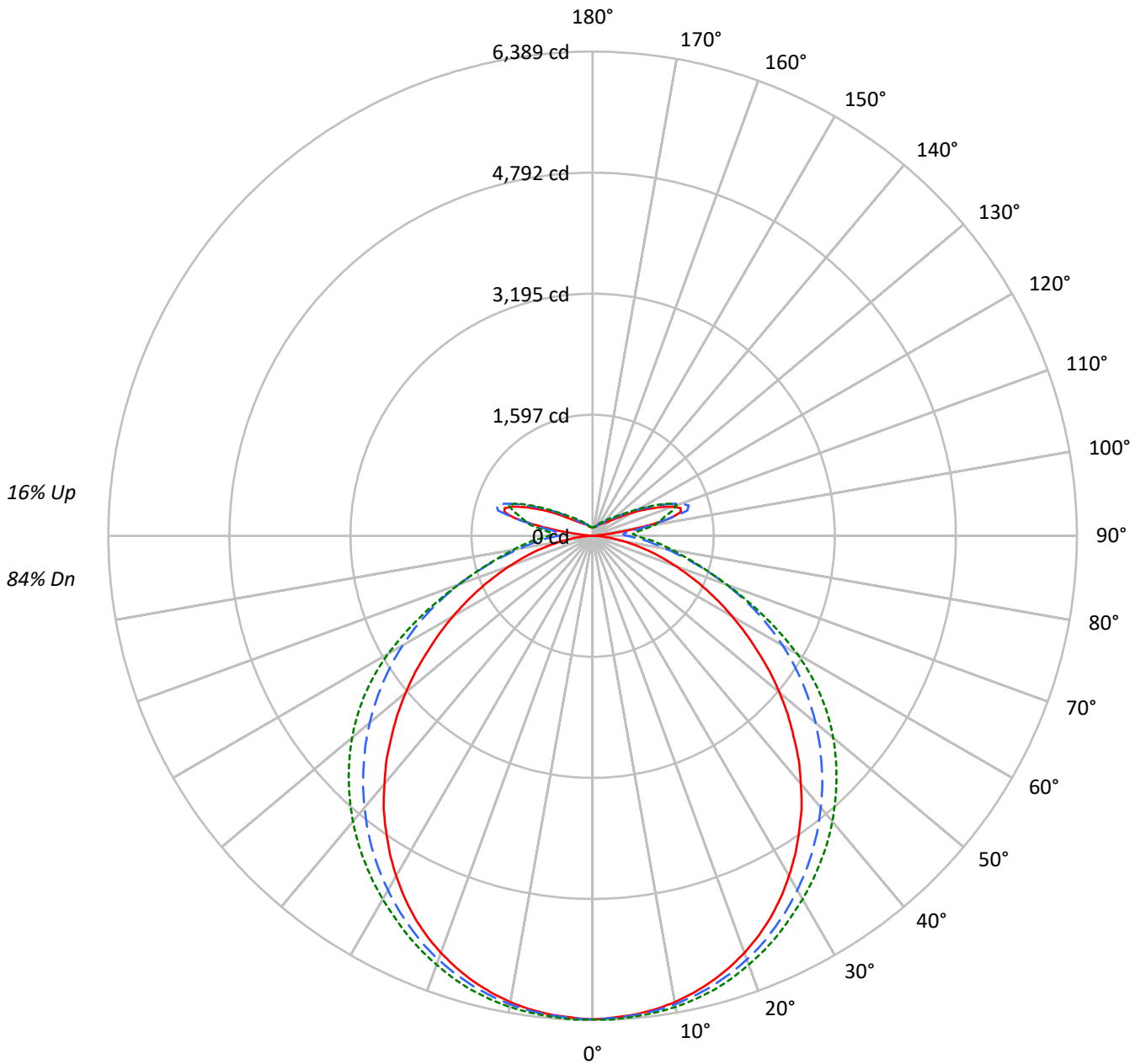
Lumens per Lamp: N/A
Luminaire Lumens: 21997.3 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84																			
1	105	100	95	91	100	96	92	88	89	86	83	82	80	77	76	74	72	69																			
2	95	87	80	74	91	84	77	72	77	72	68	72	68	64	67	63	60	57																			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	55	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	70	58	50	44	54	47	42	50	45	40	47	42	38	36																			
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	42	35	31	39	34	30	27																			
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	30	27	24																			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22																			
10	51	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°	10094	10094	10094
5°	9987	9998	10071
10°	9875	9910	10061
15°	9723	9805	10035
20°	9534	9676	9977
25°	9297	9514	9919
30°	8984	9340	9864
35°	8615	9154	9826
40°	8181	8940	9796
45°	7677	8706	9747
50°	7130	8471	9683
55°	6470	8182	9534
60°	5795	7842	9157
65°	5062	7408	8480
70°	4272	6854	7757
75°	3469	6214	7377
80°	2491	5752	7727
85°	1404	5979	9687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.8	2.7
10°-20°	1735.0	7.9
20°-30°	2623.9	11.9
30°-40°	3150.0	14.3
40°-50°	3253.5	14.8
50°-60°	2927.1	13.3
60°-70°	2204.9	10.0
70°-80°	1331.4	6.1
80°-90°	657.4	3.0
90°-100°	496.5	2.3
100°-110°	1163.7	5.3
110°-120°	925.5	4.2
120°-130°	446.5	2.0
130°-140°	227.1	1.0
140°-150°	130.1	0.6
150°-160°	73.4	0.3
160°-170°	35.6	0.2
170°-180°	10.9	0.0
0°-30°	4963.7	22.6
0°-40°	8113.7	36.9
0°-60°	14294.3	65.0
0°-90°	18488.0	84.0
90°-120°	2585.6	11.8
90°-150°	3389.3	15.4
90°-180°	3509.0	16.0
0°-180°	21997.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6382	6382	6382	6382	6382	
5°	6342	6359	6351	6376	6368	602
15°	6086	6115	6144	6195	6201	1716
25°	5558	5619	5698	5787	5801	2556
35°	4752	4863	5063	5216	5247	2971
45°	3750	3940	4269	4502	4550	2895
55°	2657	2932	3377	3632	3676	2382
65°	1621	1952	2390	2509	2480	1611
75°	764	1097	1384	1420	1406	815
85°	159	420	694	789	803	184
90°	6	204	448	558	579	15
95°	58	211	430	548	575	193
105°	1205	1256	1292	1058	987	1146
115°	845	857	934	976	974	854
125°	422	442	498	519	516	397
135°	253	262	287	313	320	200
145°	192	194	200	215	220	122
155°	158	162	163	163	164	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°	6382.5	6382.5	6382.5	6382.5	6382.5
2.5°	6363.8	6379.4	6370.0	6390.3	6388.7
5°	6341.9	6359.1	6351.2	6376.2	6368.5
7.5°	6304.4	6323.1	6321.6	6349.7	6346.5
10°	6249.7	6270.0	6276.3	6313.7	6313.7
12.5°	6174.8	6201.3	6216.9	6262.2	6263.8
15°	6085.7	6115.4	6143.5	6195.1	6201.3
17.5°	5977.9	6015.5	6054.5	6113.8	6121.7
20°	5856.1	5898.2	5951.4	6013.8	6023.2
22.5°	5715.5	5765.5	5834.2	5907.6	5918.5
25°	5557.8	5618.6	5698.3	5787.3	5801.4
27.5°	5378.1	5448.4	5556.2	5656.2	5668.7
30°	5182.9	5265.6	5400.0	5518.7	5539.0
32.5°	4976.7	5072.0	5237.5	5370.3	5398.4
35°	4751.7	4862.6	5062.6	5215.7	5246.9
37.5°	4529.9	4651.7	4878.2	5053.2	5090.7
40°	4270.6	4422.1	4681.5	4875.1	4920.4
42.5°	4027.0	4191.0	4484.6	4695.5	4739.3
45°	3750.4	3939.5	4269.1	4501.8	4550.2
47.5°	3491.2	3695.8	4061.3	4301.9	4351.8
50°	3217.8	3442.8	3839.5	4091.0	4142.5
52.5°	2944.4	3186.5	3609.9	3870.7	3919.1
55°	2657.0	2932.0	3377.1	3631.8	3675.5
57.5°	2389.9	2680.4	3138.1	3380.3	3406.8
60°	2125.9	2427.4	2894.5	3106.9	3116.3
62.5°	1868.2	2185.3	2644.5	2813.2	2800.7
65°	1621.4	1952.5	2389.9	2508.7	2480.5
67.5°	1383.9	1726.0	2129.1	2205.6	2168.1
70°	1159.1	1505.8	1876.0	1915.0	1880.7
72.5°	960.6	1296.5	1619.8	1652.6	1627.7
75°	763.9	1096.6	1383.9	1419.9	1405.9
77.5°	579.5	902.8	1166.8	1213.7	1216.9
80°	417.1	726.4	977.8	1051.2	1060.6
82.5°	274.9	563.9	820.1	913.8	927.9
85°	159.3	420.2	693.6	788.9	802.9
87.5°	68.7	303.0	557.7	643.6	660.7
90°	6.5	203.6	447.7	558.1	579.2
92.5°	24.9	184.4	402.8	511.8	533.9
95°	58.0	211.1	430.2	547.7	574.7
97.5°	311.7	418.6	539.8	666.6	700.1
100°	658.5	747.3	739.9	809.5	838.2
102.5°	1026.3	1102.5	1010.1	927.2	913.9
105°	1204.8	1255.5	1292.2	1058.4	986.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	990.6	1022.7	1090.4	1127.7	1108.1
115°	845.1	857.2	933.9	975.6	973.7
117.5°	726.2	735.3	804.2	835.4	831.2
120°	613.0	625.6	689.8	709.8	709.6
122.5°	510.4	529.5	586.7	608.3	602.5
125°	422.4	441.6	498.1	519.0	515.6
127.5°	362.5	370.5	422.4	446.5	451.2
130°	313.2	321.3	364.6	392.7	395.8
132.5°	279.3	288.9	322.0	349.4	358.1
135°	253.4	262.2	287.4	313.3	320.3
137.5°	232.4	240.4	257.8	283.6	290.7
140°	216.2	222.6	235.3	257.2	263.5
142.5°	203.2	208.1	215.3	234.8	239.5
145°	191.8	194.3	199.9	214.9	220.4
147.5°	182.1	185.4	189.4	196.5	202.0
150°	173.2	177.3	178.9	182.1	187.6
152.5°	165.1	169.2	170.8	170.1	174.0
155°	157.9	161.9	162.7	162.8	164.3
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°	1216.1	1263.9	1330.0	1237.8	1105.0
110°	1123.2	1172.7	1238.5	1236.2	1180.2



(END OF REPORT)