

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: P828032

Luminaire Tested: **OHBL-24HE-MCL-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828032
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-L935-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

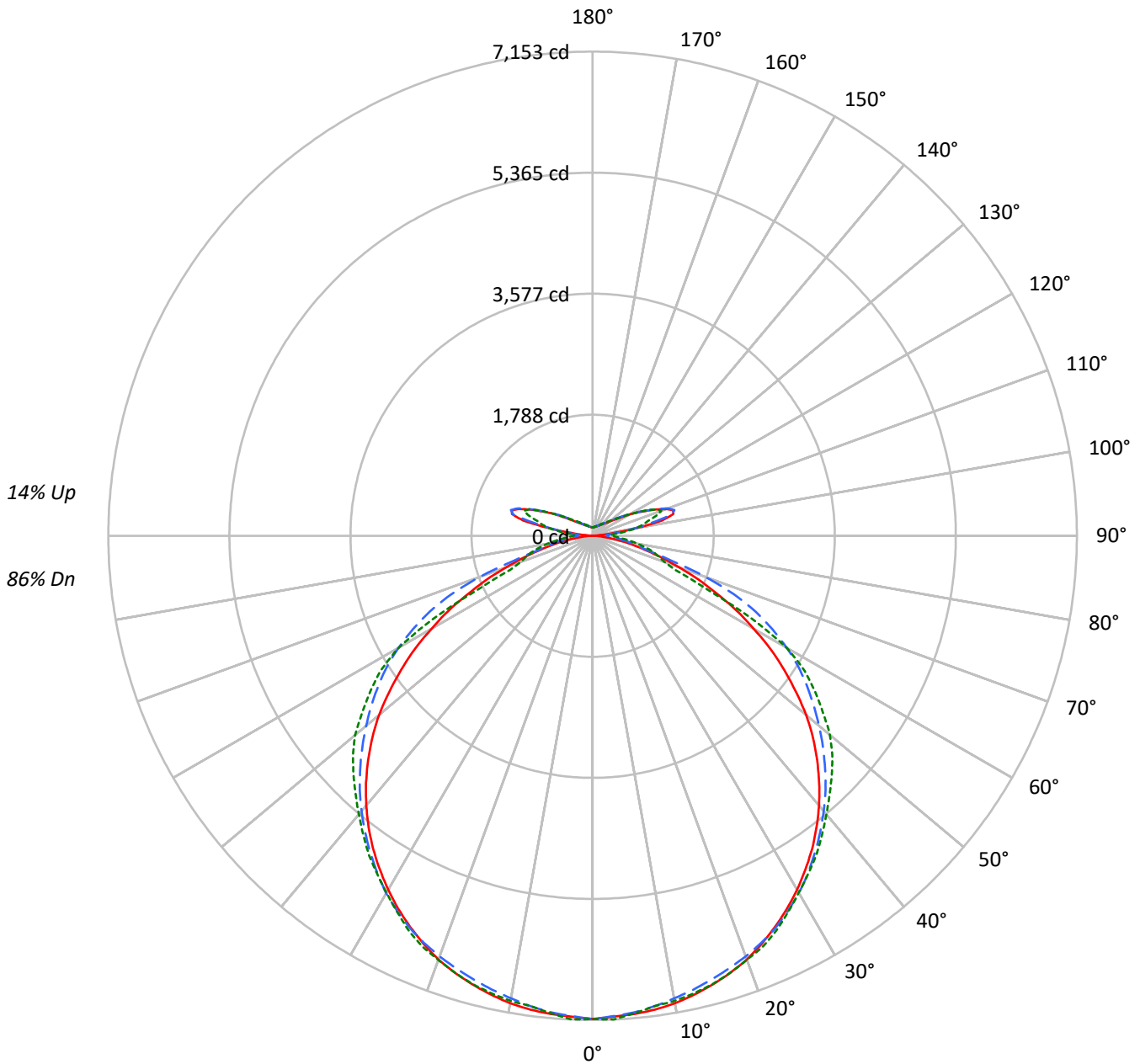
Lumens per Lamp: N/A
Luminaire Lumens: 23162.6 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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°	11290	11290	11290
5°	11169	11126	11196
10°	11081	10957	11119
15°	10963	10831	11092
20°	10845	10752	11043
25°	10664	10672	10997
30°	10469	10546	10843
35°	10244	10346	10787
40°	9966	10140	10694
45°	9599	9900	10697
50°	9121	9629	10698
55°	8403	9361	10399
60°	7487	8969	9730
65°	6323	8242	6264
70°	4984	6434	4640
75°	3618	3820	4863
80°	2385	3175	4903
85°	1209	2910	5156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.1	2.9
10°-20°	1930.2	8.3
20°-30°	2948.0	12.7
30°-40°	3577.0	15.4
40°-50°	3749.0	16.2
50°-60°	3397.2	14.7
60°-70°	2277.7	9.8
70°-80°	1022.8	4.4
80°-90°	377.6	1.6
90°-100°	341.0	1.5
100°-110°	1091.1	4.7
110°-120°	885.9	3.8
120°-130°	421.3	1.8
130°-140°	216.0	0.9
140°-150°	127.1	0.5
150°-160°	75.6	0.3
160°-170°	39.9	0.2
170°-180°	12.2	0.1
0°-30°	5551.4	24.0
0°-40°	9128.3	39.4
0°-60°	16274.5	70.3
0°-90°	19952.5	86.1
90°-120°	2317.9	10.0
90°-150°	3082.4	13.3
90°-180°	3210.0	13.9
0°-180°	23162.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7139	7139	7139	7139	7139	
5°	7092	7117	7068	7089	7080	675
15°	6862	6835	6787	6847	6855	1937
25°	6375	6347	6392	6450	6432	2939
35°	5650	5664	5722	5782	5760	3532
45°	4689	4766	4854	4978	4994	3612
55°	3451	3617	3864	4018	4009	3080
65°	2025	2342	2659	2244	1832	2018
75°	797	1156	851	870	927	871
85°	137	263	338	408	427	167
90°	8	129	227	279	290	13
95°	53	158	257	321	338	194
105°	1235	1252	1214	930	850	1175
115°	867	859	883	897	891	875
125°	430	446	466	462	454	405
135°	259	266	274	282	283	205
145°	191	196	200	204	206	122
155°	157	160	163	165	164	73
165°	137	139	140	140	141	39
175°	126	126	126	125	126	12
180°	124	124	124	124	124	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7138.8	7138.8	7138.8	7138.8	<i>7138.8</i>
2.5°	<i>7109.9</i>	<i>7139.8</i>	<i>7102.7</i>	<i>7142.9</i>	<i>7153.2</i>
5°	7092.3	7117.2	7067.6	7089.3	<i>7080.0</i>
7.5°	7060.3	7068.7	7009.8	7027.3	<i>7008.8</i>
10°	7012.9	7008.8	6939.6	6973.7	<i>6977.8</i>
12.5°	6942.7	6930.3	6868.4	6920.0	<i>6921.0</i>
15°	6862.2	6835.3	6786.8	6846.7	<i>6854.9</i>
17.5°	6769.3	6734.2	6702.2	6779.6	<i>6767.2</i>
20°	6660.9	6619.6	6613.4	6698.1	<i>6667.1</i>
22.5°	6526.8	6494.8	6509.2	6589.7	<i>6570.1</i>
25°	6375.0	6347.1	6391.5	6450.3	<i>6431.8</i>
27.5°	6215.0	6198.5	6249.1	6294.5	<i>6258.3</i>
30°	6039.5	6030.2	6097.3	6134.5	<i>6089.1</i>
32.5°	5848.6	5851.7	5915.7	5966.2	<i>5923.9</i>
35°	5650.3	5663.8	5721.6	5782.5	<i>5759.8</i>
37.5°	5432.6	5462.5	5520.3	5589.4	<i>5565.8</i>
40°	5202.4	5245.8	5309.8	5393.3	<i>5371.7</i>
42.5°	4953.6	5008.3	5090.9	5183.8	<i>5181.8</i>
45°	4689.3	4765.8	4854.5	4978.4	<i>4993.8</i>
47.5°	4414.8	4500.5	4613.0	4778.2	<i>4801.9</i>
50°	4116.5	4223.8	4364.3	4562.4	<i>4576.8</i>
52.5°	3784.1	3930.7	4116.5	4306.4	<i>4288.8</i>
55°	3450.7	3616.9	3863.6	4018.4	<i>4009.2</i>
57.5°	3118.3	3305.2	3604.5	3714.9	<i>3713.9</i>
60°	2746.8	2983.1	3310.3	3393.9	<i>3311.3</i>
62.5°	2403.0	2656.9	2996.5	2935.7	<i>2652.8</i>
65°	2025.3	2342.1	2659.0	2244.0	<i>1832.2</i>
67.5°	1689.8	2020.1	2258.5	1537.0	<i>1316.1</i>
70°	1352.2	1716.6	1761.0	1140.6	<i>1125.1</i>
72.5°	1052.8	1441.0	1214.9	976.5	<i>1026.0</i>
75°	796.8	1156.1	850.6	870.2	<i>926.9</i>
77.5°	581.2	887.7	661.7	762.8	<i>809.2</i>
80°	399.5	628.6	539.8	641.0	<i>673.0</i>
82.5°	250.8	414.9	432.5	516.1	<i>549.2</i>
85°	137.2	263.2	337.5	407.8	<i>427.3</i>
87.5°	56.8	159.0	258.1	314.8	<i>331.3</i>
90°	7.7	128.6	226.9	278.8	<i>290.0</i>
92.5°	21.8	117.1	206.6	256.5	<i>268.8</i>
95°	52.7	158.0	257.2	320.6	<i>338.0</i>
97.5°	313.8	378.3	391.0	468.2	<i>492.4</i>
100°	672.3	722.8	616.1	637.8	<i>657.6</i>
102.5°	1052.5	1091.4	910.2	779.7	<i>757.8</i>
105°	1235.0	1252.1	1213.8	930.4	<i>850.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1015.6	1025.2	1036.8	1042.8	1018.1
115°	866.6	859.1	883.3	897.3	891.1
117.5°	742.4	736.2	758.3	761.2	754.1
120°	625.8	626.8	648.6	642.0	636.4
122.5°	519.9	531.6	548.8	545.6	535.8
125°	429.8	445.8	466.1	461.7	454.4
127.5°	370.8	375.8	395.7	394.6	395.7
130°	319.9	327.6	341.9	347.8	346.1
132.5°	285.9	293.7	305.1	311.8	314.3
135°	259.3	266.2	273.8	281.5	283.4
137.5°	238.7	243.7	248.7	258.0	259.8
140°	220.3	225.3	229.3	236.8	237.8
142.5°	204.2	210.3	213.4	219.1	220.1
145°	190.9	196.2	200.3	203.8	205.8
147.5°	182.0	185.3	189.5	190.3	192.2
150°	172.8	175.3	178.7	180.3	181.2
152.5°	164.5	167.0	170.3	171.2	172.0
155°	157.0	160.5	163.0	164.7	163.7
157.5°	150.3	153.8	156.3	157.2	157.2
160°	145.3	148.0	150.5	150.5	151.3
162.5°	141.3	143.0	144.7	145.5	146.3
165°	137.2	138.8	139.7	140.5	141.3
167.5°	133.8	135.8	135.5	136.3	136.3
170°	130.5	131.3	132.2	131.2	132.0
172.5°	128.0	128.8	129.7	128.7	128.7
175°	126.3	126.3	126.2	125.1	125.9
177.5°	125.8	125.5	124.5	123.4	123.3
180°	123.7	123.7	123.7	123.7	123.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1247.7	1264.6	1265.6	1130.9	988.0
110°	1152.8	1174.0	1180.7	1142.4	1078.7



(END OF REPORT)