

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: P826604

Luminaire Tested: **OHBL-36SE-MFL-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826604  
REPORT IS A COMBINATION OF REPORTS P826319 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-36SE-MFL-UNV-L830-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

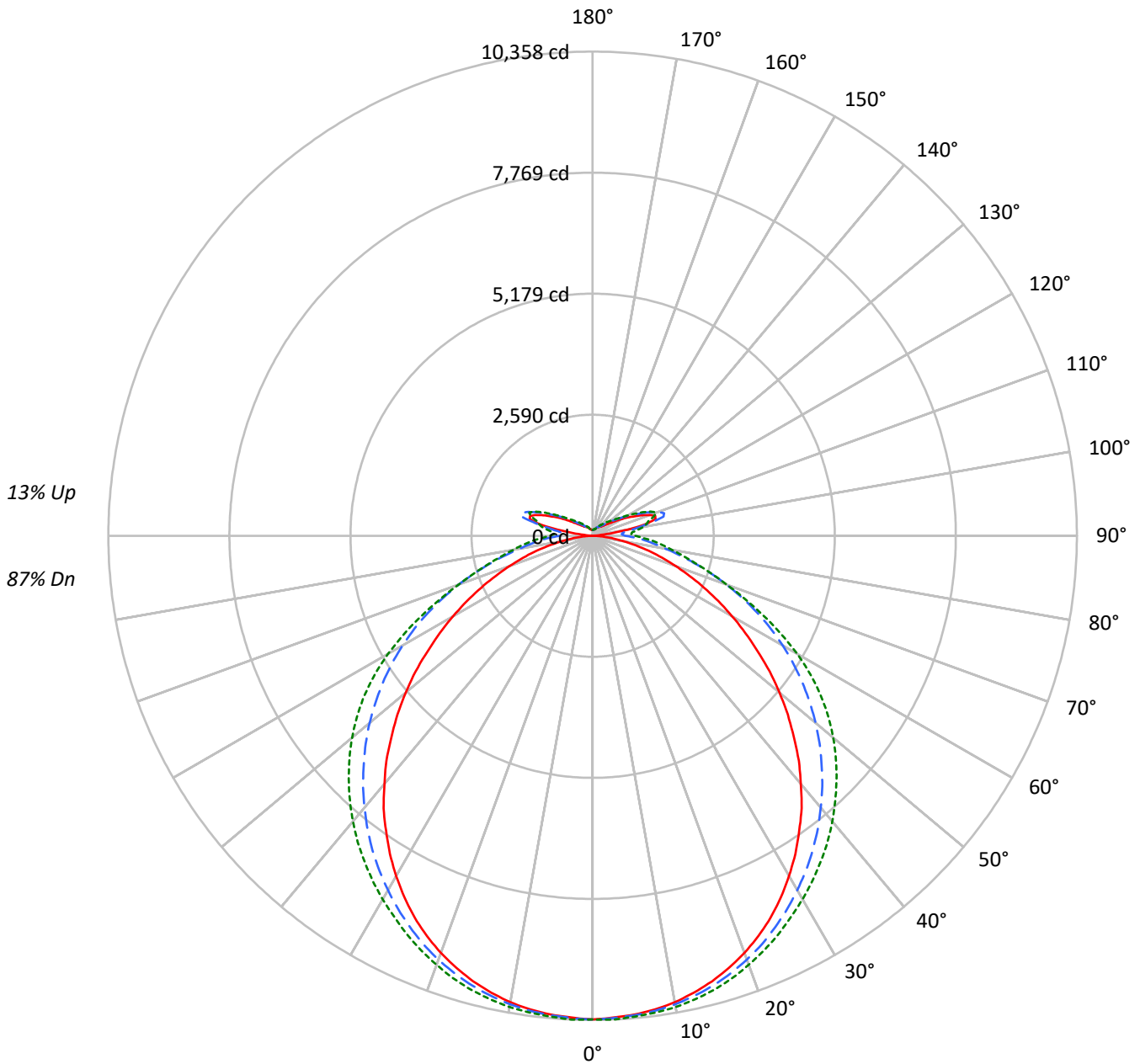
Lumens per Lamp: N/A  
Luminaire Lumens: 34304.1 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 239.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					20					
RC	80					70					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	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87				
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72				72				
2	96	87	80	75	92	84	78	73	79	74	69	74	69	66	69	66	62	60				60				
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50				50				
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43				43				
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37				37				
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32				32				
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29				29				
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	27	25				25				
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23				23				
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21				21				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16366	16366	16366
5°	16192	16211	16329
10°	16011	16068	16312
15°	15764	15897	16270
20°	15458	15688	16176
25°	15073	15426	16083
30°	14567	15143	15993
35°	13968	14842	15932
40°	13264	14494	15882
45°	12447	14116	15803
50°	11560	13734	15700
55°	10491	13266	15458
60°	9395	12715	14847
65°	8208	12011	13750
70°	6927	11113	12576
75°	5624	10076	11960
80°	4038	9326	12529
85°	2277	9694	15707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	980.6	2.9
10°-20°	2813.1	8.2
20°-30°	4254.3	12.4
30°-40°	5107.3	14.9
40°-50°	5275.0	15.4
50°-60°	4745.9	13.8
60°-70°	3575.0	10.4
70°-80°	2158.7	6.3
80°-90°	1062.9	3.1
90°-100°	700.4	2.0
100°-110°	1413.2	4.1
110°-120°	1108.6	3.2
120°-130°	538.4	1.6
130°-140°	274.3	0.8
140°-150°	156.0	0.5
150°-160°	86.9	0.3
160°-170°	41.0	0.1
170°-180°	12.5	0.0
0°-30°	8047.9	23.5
0°-40°	13155.2	38.3
0°-60°	23176.2	67.6
0°-90°	29972.8	87.4
90°-120°	3222.2	9.4
90°-150°	4191.0	12.2
90°-180°	4331.0	12.6
0°-180°	34304.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10348	10348	10348	10348	10348	
5°	10282	10310	10298	10338	10326	977
15°	9867	9915	9961	10044	10055	2782
25°	9011	9110	9239	9383	9406	4145
35°	7704	7884	8208	8456	8507	4816
45°	6081	6387	6922	7299	7378	4695
55°	4308	4754	5476	5888	5959	3862
65°	2629	3166	3875	4067	4022	2612
75°	1238	1778	2244	2302	2279	1321
85°	258	681	1124	1279	1302	298
90°	7	312	702	877	911	22
95°	70	295	635	808	846	225
105°	1392	1476	1568	1324	1246	1324
115°	979	1004	1125	1190	1191	990
125°	492	516	604	641	639	462
135°	297	308	346	387	398	235
145°	228	230	238	261	269	145
155°	189	194	195	194	196	84
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10348.3	10348.3	10348.3	<i>10348.3</i>	10348.3
2.5°	<i>10317.9</i>	<i>10343.2</i>	<i>10328.0</i>	<i>10361.0</i>	<i>10358.5</i>
5°	10282.5	10310.4	10297.6	<i>10338.2</i>	10325.5
7.5°	10221.7	10252.1	10249.5	<i>10295.1</i>	10290.1
10°	10133.0	10165.9	10176.1	<i>10236.9</i>	10236.9
12.5°	10011.5	10054.6	10079.9	<i>10153.3</i>	10155.8
15°	9867.1	9915.3	9960.9	<i>10044.4</i>	10054.6
17.5°	9692.4	9753.2	9816.4	<i>9912.7</i>	9925.4
20°	9494.8	9563.2	9649.3	<i>9750.6</i>	9765.8
22.5°	9266.8	9347.9	9459.4	<i>9578.4</i>	9596.2
25°	9011.1	9109.9	9239.0	<i>9383.4</i>	9406.1
27.5°	8719.9	8833.8	9008.5	<i>9170.6</i>	9190.9
30°	8403.3	8537.5	8755.3	<i>8947.8</i>	8980.7
32.5°	8068.9	8223.4	8491.9	<i>8707.2</i>	8752.7
35°	7704.3	7884.0	8208.2	<i>8456.4</i>	8507.1
37.5°	7344.6	7542.2	7909.4	<i>8193.1</i>	8253.8
40°	6924.2	7169.8	7590.3	<i>7904.3</i>	7977.7
42.5°	6529.2	6795.0	7271.2	<i>7613.1</i>	7684.0
45°	6080.8	6387.2	6921.7	<i>7299.0</i>	7377.5
47.5°	5660.4	5992.2	6584.8	<i>6974.9</i>	7055.9
50°	5217.3	5581.9	6225.2	<i>6632.9</i>	6716.6
52.5°	4774.0	5166.5	5852.9	<i>6275.9</i>	6354.4
55°	4308.0	4753.7	5475.6	<i>5888.4</i>	5959.3
57.5°	3874.9	4346.0	5088.1	<i>5480.6</i>	5523.7
60°	3446.9	3935.7	4693.0	<i>5037.4</i>	5052.5
62.5°	3029.1	3543.2	4287.7	<i>4561.3</i>	4541.0
65°	2628.9	3165.8	3874.9	<i>4067.4</i>	4021.8
67.5°	2243.9	2798.6	3452.0	<i>3576.0</i>	3515.3
70°	1879.2	2441.5	3041.7	<i>3105.0</i>	3049.2
72.5°	1557.6	2102.1	2626.3	<i>2679.5</i>	2639.0
75°	1238.5	1777.9	2243.9	<i>2302.2</i>	2279.4
77.5°	939.6	1463.9	1891.9	<i>1967.8</i>	1972.9
80°	676.2	1177.7	1585.4	<i>1704.5</i>	1719.7
82.5°	445.7	914.3	1329.7	<i>1481.6</i>	1504.3
85°	258.3	681.3	1124.5	<i>1279.0</i>	1301.8
87.5°	111.5	491.3	904.1	<i>1043.4</i>	1071.3
90°	7.4	311.6	701.9	<i>877.4</i>	911.3
92.5°	30.9	276.2	623.8	<i>793.4</i>	826.9
95°	70.4	295.2	634.7	<i>808.3</i>	846.0
97.5°	363.2	526.0	742.7	<i>922.5</i>	967.6
100°	762.4	898.5	956.8	<i>1067.8</i>	1106.7
102.5°	1185.8	1303.0	1254.6	<i>1186.4</i>	1176.2
105°	1392.2	1475.5	1568.4	<i>1324.1</i>	1246.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1146.3	1197.2	1311.0	1373.1	1353.5
115°	978.8	1003.7	1125.1	1189.9	1190.7
117.5°	842.6	861.1	969.9	1021.9	1019.2
120°	712.3	732.6	833.0	870.7	873.4
122.5°	594.2	619.8	709.9	748.7	744.3
125°	492.1	516.4	603.6	640.8	639.0
127.5°	422.6	433.2	512.1	552.9	560.6
130°	365.8	375.8	441.6	486.6	492.4
132.5°	326.7	339.2	389.0	432.3	445.3
135°	296.9	308.5	346.4	387.1	398.2
137.5°	272.7	283.4	309.2	349.3	360.4
140°	254.8	262.9	281.1	315.3	325.3
142.5°	240.5	246.1	255.8	286.5	294.1
145°	228.2	230.3	237.5	260.6	269.1
147.5°	217.0	220.7	225.4	236.5	245.0
150°	206.8	212.1	213.3	217.7	226.2
152.5°	197.5	202.8	204.0	202.4	208.4
155°	189.1	194.4	194.7	194.0	196.5
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1405.2	1481.4	1602.4	1519.0	1369.8
110°	1298.2	1373.6	1489.0	1506.8	1446.0



(END OF REPORT)