

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: P827809

Luminaire Tested: **OHBL-36SE-W-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827809  
REPORT IS A COMBINATION OF REPORTS P826178 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36SE-W-UNV-L930-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

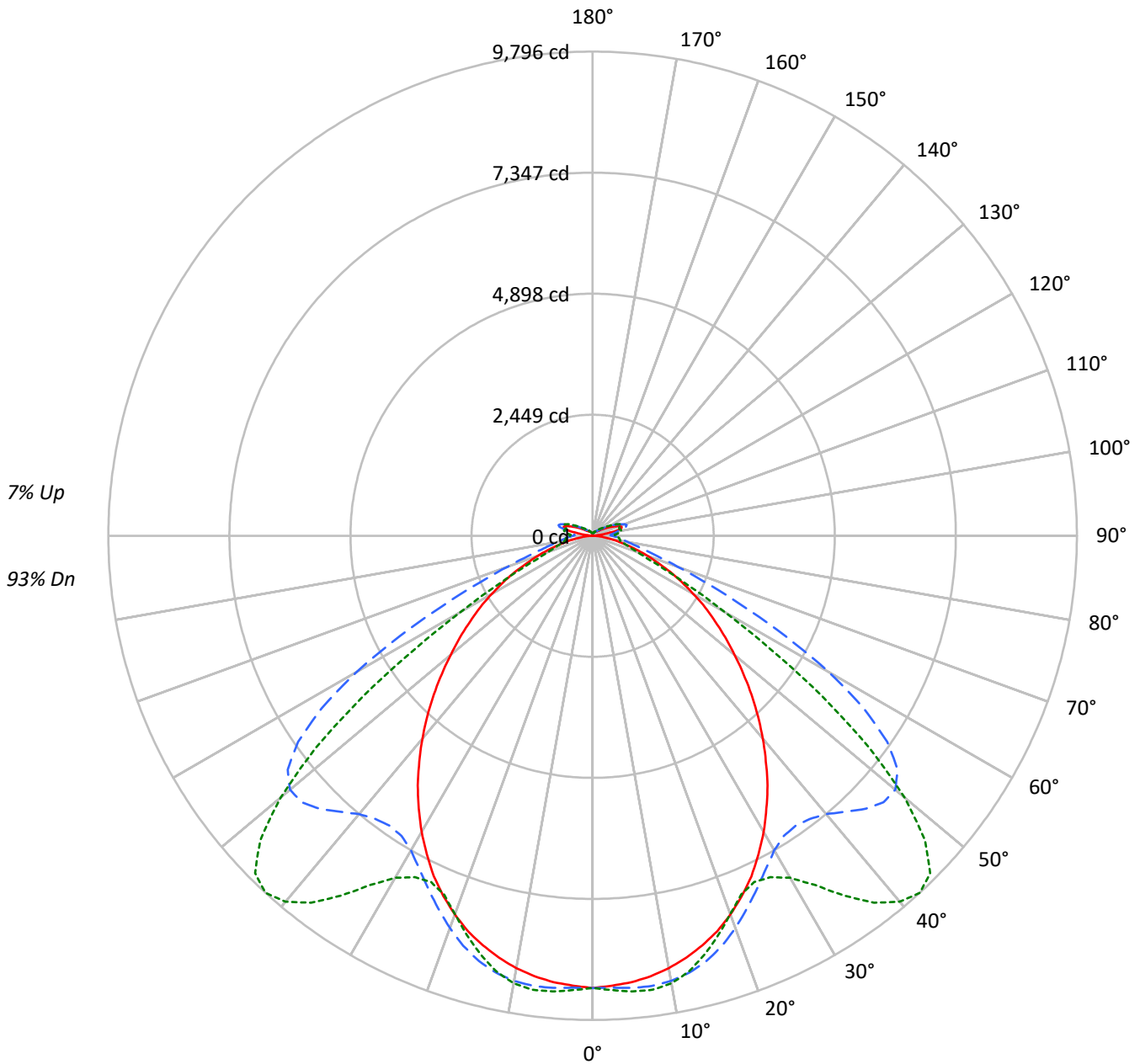
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28843.7 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 223.3  
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									
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	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	36	30	25	35	29	25	34	28	24	22																			

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

	0°	45°	90°
0°	14470	14470	14470
5°	14275	14457	14636
10°	14037	14441	14653
15°	13704	14209	14183
20°	13271	13727	13488
25°	12713	13142	13218
30°	11994	12709	14224
35°	11185	12951	16645
40°	10260	14035	19242
45°	9298	15931	20683
50°	8302	17630	19247
55°	7365	17625	14707
60°	6414	14928	8992
65°	5417	10323	5447
70°	4308	6686	3933
75°	3173	4805	3646
80°	2157	4238	4114
85°	1305	4697	6502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	874.4	3.0
10°-20°	2476.0	8.6
20°-30°	3623.2	12.6
30°-40°	4705.5	16.3
40°-50°	5746.0	19.9
50°-60°	5060.3	17.5
60°-70°	2636.9	9.1
70°-80°	1130.8	3.9
80°-90°	546.7	1.9
90°-100°	393.6	1.4
100°-110°	639.2	2.2
110°-120°	506.7	1.8
120°-130°	249.3	0.9
130°-140°	124.6	0.4
140°-150°	69.8	0.2
150°-160°	37.9	0.1
160°-170°	17.4	0.1
170°-180°	5.3	0.0
0°-30°	6973.6	24.2
0°-40°	11679.1	40.5
0°-60°	22485.4	78.0
0°-90°	26799.8	92.9
90°-120°	1539.5	5.3
90°-150°	1983.3	6.9
90°-180°	2044.0	7.1
0°-180°	28843.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9150	9150	9150	9150	9150	
5°	9065	9134	9184	9265	9255	860
15°	8578	8818	8903	8836	8765	2415
25°	7600	8007	7871	7723	7731	3488
35°	6169	6821	7162	8352	8888	3845
45°	4542	5715	7812	9458	9655	3503
55°	3024	5006	7275	6378	5670	2714
65°	1735	3469	3330	1852	1593	1717
75°	699	1623	1070	732	695	762
85°	148	578	545	533	539	165
90°	5	230	387	447	461	13
95°	35	189	390	471	500	100
105°	607	662	692	580	556	577
115°	427	459	533	554	557	431
125°	216	232	284	304	304	202
135°	132	134	158	181	184	104
145°	103	101	105	118	122	65
155°	85	87	84	85	85	38
165°	60	61	61	61	61	17
175°	54	54	55	55	55	5
180°	54	54	54	54	54	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9150.0	9150.0	9150.0	9150.0	<i>9150.0</i>
2.5°	9110.6	9150.0	9152.0	9207.3	<i>9201.3</i>
5°	9065.1	9134.2	9183.6	9264.6	<i>9254.7</i>
7.5°	8990.1	9098.7	9185.6	9274.4	<i>9266.5</i>
10°	8883.5	9031.6	9146.1	9219.1	<i>9195.4</i>
12.5°	8745.4	8940.8	9053.3	9069.1	<i>9023.7</i>
15°	8577.5	8818.4	8903.3	8836.1	<i>8765.1</i>
17.5°	8388.1	8670.3	8699.9	8553.9	<i>8465.0</i>
20°	8151.2	8473.0	8443.3	8241.9	<i>8143.2</i>
22.5°	7888.6	8255.8	8161.0	7949.8	<i>7855.1</i>
25°	7600.4	8007.0	7870.8	7722.7	<i>7730.7</i>
27.5°	7262.8	7724.8	7592.4	7659.6	<i>7785.9</i>
30°	6919.3	7428.6	7347.7	7738.6	<i>7987.3</i>
32.5°	6542.2	7124.6	7197.6	7969.5	<i>8376.2</i>
35°	6169.1	6820.6	7162.1	8352.5	<i>8887.5</i>
37.5°	5756.5	6512.7	7219.4	8794.7	<i>9355.3</i>
40°	5355.8	6212.5	7349.6	9191.5	<i>9665.3</i>
42.5°	<i>4947.2</i>	<i>5944.1</i>	<i>7568.7</i>	<i>9426.5</i>	<i>9795.5</i>
45°	4542.4	5715.1	7811.6	9458.0	<i>9655.4</i>
47.5°	4137.8	5521.6	7979.4	9207.3	<i>9116.5</i>
50°	3746.9	5349.9	7991.3	8605.2	<i>8234.1</i>
52.5°	3381.7	5191.9	7774.1	7645.8	<i>7069.4</i>
55°	3024.4	5006.3	7274.6	6378.4	<i>5669.7</i>
57.5°	2698.6	4749.8	6504.7	5016.3	<i>4242.4</i>
60°	2353.1	4402.3	5509.8	3669.9	<i>3059.9</i>
62.5°	2035.3	3970.0	4394.4	2554.5	<i>2199.2</i>
65°	1735.2	3468.6	3330.3	1851.7	<i>1593.1</i>
67.5°	1417.4	2949.4	2457.8	1350.3	<i>1184.5</i>
70°	1168.7	2467.7	1830.0	1050.3	<i>953.5</i>
72.5°	914.0	2009.7	1368.1	852.8	<i>799.5</i>
75°	698.8	1622.7	1070.0	732.4	<i>694.9</i>
77.5°	515.2	1283.1	860.7	647.5	<i>612.0</i>
80°	361.2	1010.7	720.5	578.4	<i>564.6</i>
82.5°	242.8	781.7	613.9	550.8	<i>552.7</i>
85°	148.1	578.4	544.8	533.0	<i>538.9</i>
87.5°	71.1	410.6	467.9	485.6	<i>491.5</i>
90°	5.2	229.5	386.8	447.0	<i>460.9</i>
92.5°	10.5	186.6	360.4	428.7	<i>445.0</i>
95°	34.7	188.7	390.5	470.6	<i>499.9</i>
97.5°	161.6	272.9	449.0	535.9	<i>554.8</i>
100°	330.9	428.0	515.2	578.3	<i>589.0</i>
102.5°	514.3	584.6	572.3	580.1	<i>579.3</i>
105°	606.9	662.4	691.6	579.6	<i>556.1</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	498.5	537.2	610.5	625.2	608.9
115°	426.6	459.0	533.2	554.0	557.2
117.5°	367.1	391.2	458.0	480.1	482.8
120°	308.9	330.3	390.8	412.1	412.4
122.5°	260.4	277.5	334.8	354.1	354.5
125°	215.9	231.5	284.5	303.5	303.9
127.5°	183.2	192.5	243.1	262.1	262.5
130°	160.6	166.3	206.6	227.1	231.9
132.5°	145.3	147.7	180.1	200.7	206.3
135°	131.5	133.9	157.7	181.0	183.8
137.5°	121.0	123.4	140.4	161.8	166.6
140°	112.1	114.5	124.8	146.1	149.0
142.5°	106.8	107.3	115.6	132.2	135.0
145°	103.1	100.8	105.2	117.8	121.7
147.5°	97.4	97.1	98.7	108.2	110.2
150°	92.6	94.2	91.9	96.6	101.4
152.5°	89.3	90.1	87.9	88.7	92.6
155°	85.3	86.9	83.8	84.6	84.6
157.5°	67.1	67.9	68.7	69.5	69.5
160°	64.7	64.7	65.5	66.3	66.3
162.5°	62.2	62.2	63.0	63.9	63.9
165°	59.8	60.6	60.6	61.4	61.4
167.5°	58.2	58.2	59.0	59.0	59.8
170°	56.6	56.6	57.4	57.4	57.4
172.5°	55.0	55.8	55.8	55.8	55.8
175°	54.2	54.2	55.0	55.0	55.0
177.5°	53.4	54.2	54.2	54.2	54.2
180°	54.2	54.2	54.2	54.2	54.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	614.5	665.8	723.5	632.7	566.2
110°	563.6	613.4	682.0	665.1	613.3



(END OF REPORT)