

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: P827789

Luminaire Tested: **OHBL-36HE-MCL-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827789  
REPORT IS A COMBINATION OF REPORTS P826168 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-36HE-MCL-UNV-L930-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

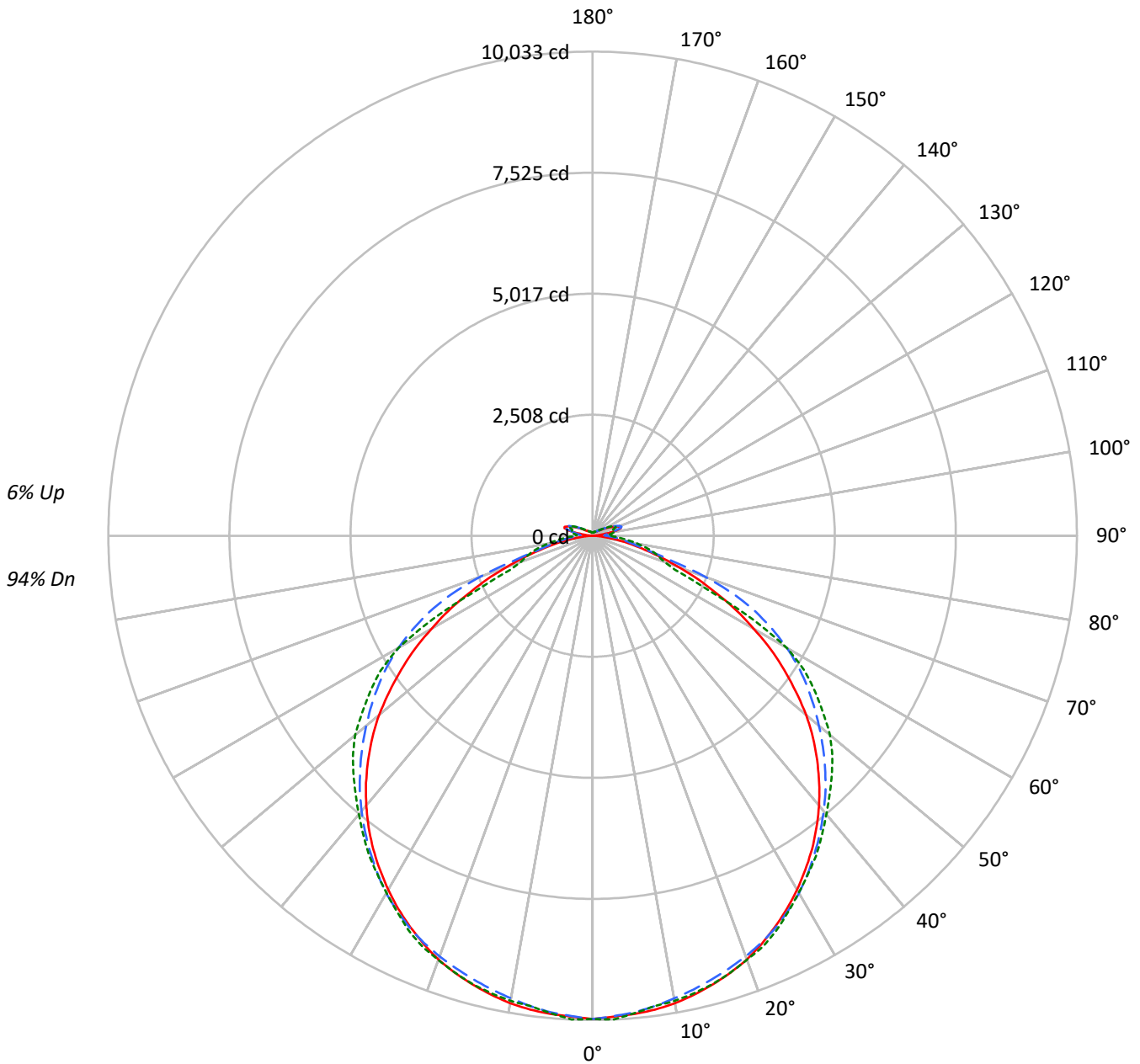
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29748.2 lumens  
Efficiency: N/A  
Efficacy: 132.6 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: Direct  
  
Input Watts (W): 224.3  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	59	53	62	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	15835	15835	15835
5°	15666	15605	15704
10°	15542	15369	15596
15°	15377	15192	15558
20°	15211	15081	15490
25°	14957	14969	15425
30°	14684	14792	15209
35°	14369	14511	15130
40°	13978	14222	15000
45°	13464	13887	15004
50°	12793	13505	15006
55°	11786	13129	14586
60°	10501	12580	13648
65°	8868	11560	8786
70°	6991	9024	6509
75°	5075	5357	6822
80°	3346	4454	6878
85°	1697	4081	7232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	944.1	3.2
10°-20°	2707.3	9.1
20°-30°	4135.0	13.9
30°-40°	5017.1	16.9
40°-50°	5258.4	17.7
50°-60°	4764.9	16.0
60°-70°	3194.7	10.7
70°-80°	1434.5	4.8
80°-90°	524.2	1.8
90°-100°	295.1	1.0
100°-110°	554.6	1.9
110°-120°	450.0	1.5
120°-130°	218.7	0.7
130°-140°	113.1	0.4
140°-150°	67.0	0.2
150°-160°	40.6	0.1
160°-170°	21.9	0.1
170°-180°	6.7	0.0
0°-30°	7786.4	26.2
0°-40°	12803.6	43.0
0°-60°	22826.9	76.7
0°-90°	27980.4	94.1
90°-120°	1299.7	4.4
90°-150°	1698.5	5.7
90°-180°	1768.0	5.9
0°-180°	29748.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10013	10013	10013	10013	10013	
5°	9948	9983	9913	9944	9930	946
15°	9625	9587	9519	9603	9615	2718
25°	8942	8903	8965	9047	9021	4122
35°	7925	7944	8025	8111	8079	4954
45°	6577	6684	6809	6983	7004	5067
55°	4840	5073	5419	5636	5623	4320
65°	2841	3285	3730	3148	2570	2830
75°	1118	1622	1193	1220	1300	1221
85°	192	369	473	572	599	235
90°	5	143	272	343	362	14
95°	32	143	272	339	364	99
105°	605	627	588	456	433	575
115°	426	437	461	468	470	429
125°	212	223	244	247	247	200
135°	133	136	142	151	153	105
145°	100	103	106	108	110	64
155°	84	87	88	89	87	39
165°	76	76	76	77	77	22
175°	70	70	69	68	68	7
180°	69	69	69	69	69	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10013.1	10013.1	10013.1	10013.1	<i>10013.1</i>
2.5°	<i>9972.5</i>	<i>10014.5</i>	<i>9962.4</i>	<i>10018.8</i>	<i>10033.4</i>
5°	9947.9	9982.7	9913.2	9943.6	<i>9930.5</i>
7.5°	9903.1	9914.6	9832.1	9856.7	<i>9830.6</i>
10°	9836.4	9830.6	9733.6	9781.4	<i>9787.2</i>
12.5°	9738.0	9720.6	9633.7	9706.1	<i>9707.6</i>
15°	9625.1	9587.4	9519.3	9603.3	<i>9614.9</i>
17.5°	9494.8	9445.5	9400.6	9509.2	<i>9491.9</i>
20°	9342.7	9284.8	9276.1	9394.9	<i>9351.4</i>
22.5°	9154.5	9109.6	9129.9	9242.8	<i>9215.3</i>
25°	8941.7	8902.6	8964.8	9047.4	<i>9021.3</i>
27.5°	8717.2	8694.1	8765.0	8828.8	<i>8778.1</i>
30°	8471.1	8458.1	8552.2	8604.3	<i>8540.6</i>
32.5°	8203.3	8207.7	8297.4	8368.4	<i>8308.9</i>
35°	7925.3	7944.1	8025.2	8110.7	<i>8078.8</i>
37.5°	7619.8	7661.8	7742.9	7839.9	<i>7806.6</i>
40°	7297.0	7357.8	7447.5	7564.8	<i>7534.4</i>
42.5°	6948.0	7024.7	7140.6	7270.9	<i>7268.0</i>
45°	6577.4	6684.5	6809.1	6982.8	<i>7004.5</i>
47.5°	6192.3	6312.4	6470.2	6701.9	<i>6735.2</i>
50°	5773.8	5924.4	6121.3	6399.3	<i>6419.6</i>
52.5°	5307.7	5513.2	5773.8	6040.3	<i>6015.6</i>
55°	4840.1	5073.1	5419.1	5636.3	<i>5623.3</i>
57.5°	4373.8	4635.9	5055.7	5210.7	<i>5209.2</i>
60°	3852.6	4184.2	4643.1	4760.4	<i>4644.6</i>
62.5°	3370.5	3726.7	4203.0	4117.6	<i>3720.8</i>
65°	2840.6	3285.1	3729.6	3147.6	<i>2569.9</i>
67.5°	2370.0	2833.4	3167.8	2155.8	<i>1846.0</i>
70°	1896.6	2407.7	2469.9	1599.9	<i>1578.1</i>
72.5°	1476.7	2021.2	1704.0	1369.6	<i>1439.2</i>
75°	1117.7	1621.5	1193.0	1220.5	<i>1300.1</i>
77.5°	815.1	1245.1	928.0	1069.9	<i>1135.1</i>
80°	560.3	881.7	757.2	899.1	<i>944.0</i>
82.5°	351.8	582.0	606.7	723.9	<i>770.3</i>
85°	192.5	369.2	473.4	571.9	<i>599.4</i>
87.5°	79.6	222.9	362.0	441.6	<i>464.7</i>
90°	4.7	143.2	272.2	343.3	<i>361.8</i>
92.5°	12.0	120.8	244.3	309.0	<i>325.6</i>
95°	32.2	143.0	272.2	339.1	<i>364.3</i>
97.5°	160.5	233.0	332.8	397.4	<i>416.0</i>
100°	329.3	391.8	403.4	441.8	<i>451.0</i>
102.5°	514.3	548.2	465.4	450.2	<i>449.6</i>
105°	604.8	626.6	588.5	456.4	<i>433.3</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	496.7	510.1	529.4	529.5	512.2
115°	426.2	436.9	460.7	467.5	469.6
117.5°	364.8	370.1	393.5	400.5	404.2
120°	306.6	313.7	335.8	340.6	340.5
122.5°	258.1	265.4	285.3	290.2	290.0
125°	212.2	223.3	243.5	247.0	246.9
127.5°	182.9	190.2	209.1	212.6	212.4
130°	160.3	167.4	179.5	186.1	186.9
132.5°	146.4	150.3	159.5	166.0	167.6
135°	132.6	136.5	142.0	150.9	153.1
137.5°	123.6	126.0	129.3	138.1	140.4
140°	114.7	117.1	118.1	125.5	127.8
142.5°	106.0	109.9	110.8	116.0	118.3
145°	100.3	103.4	105.8	108.1	109.5
147.5°	96.1	97.7	99.3	101.0	102.4
150°	91.3	92.9	94.5	95.3	96.1
152.5°	88.0	88.8	90.5	91.3	91.3
155°	84.0	87.1	87.9	88.7	87.2
157.5°	81.6	83.8	84.6	85.4	85.4
160°	79.1	80.6	81.4	82.2	82.2
162.5°	78.2	78.2	79.0	79.8	79.8
165°	75.7	76.5	76.5	77.4	77.4
167.5°	74.1	75.6	74.9	74.9	75.7
170°	72.5	72.5	73.3	71.9	71.9
172.5°	70.9	71.7	71.7	70.2	70.2
175°	70.1	70.1	69.4	68.0	68.0
177.5°	70.7	70.1	68.6	67.2	65.7
180°	68.6	68.6	68.6	68.6	68.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	611.9	632.1	628.7	518.7	451.3
110°	562.4	583.4	595.3	559.9	506.9



(END OF REPORT)