

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: P827790

Luminaire Tested: **OHBL-36HE-MCL-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827790
REPORT IS A COMBINATION OF REPORTS P826312 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-36HE-MCL-UNV-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

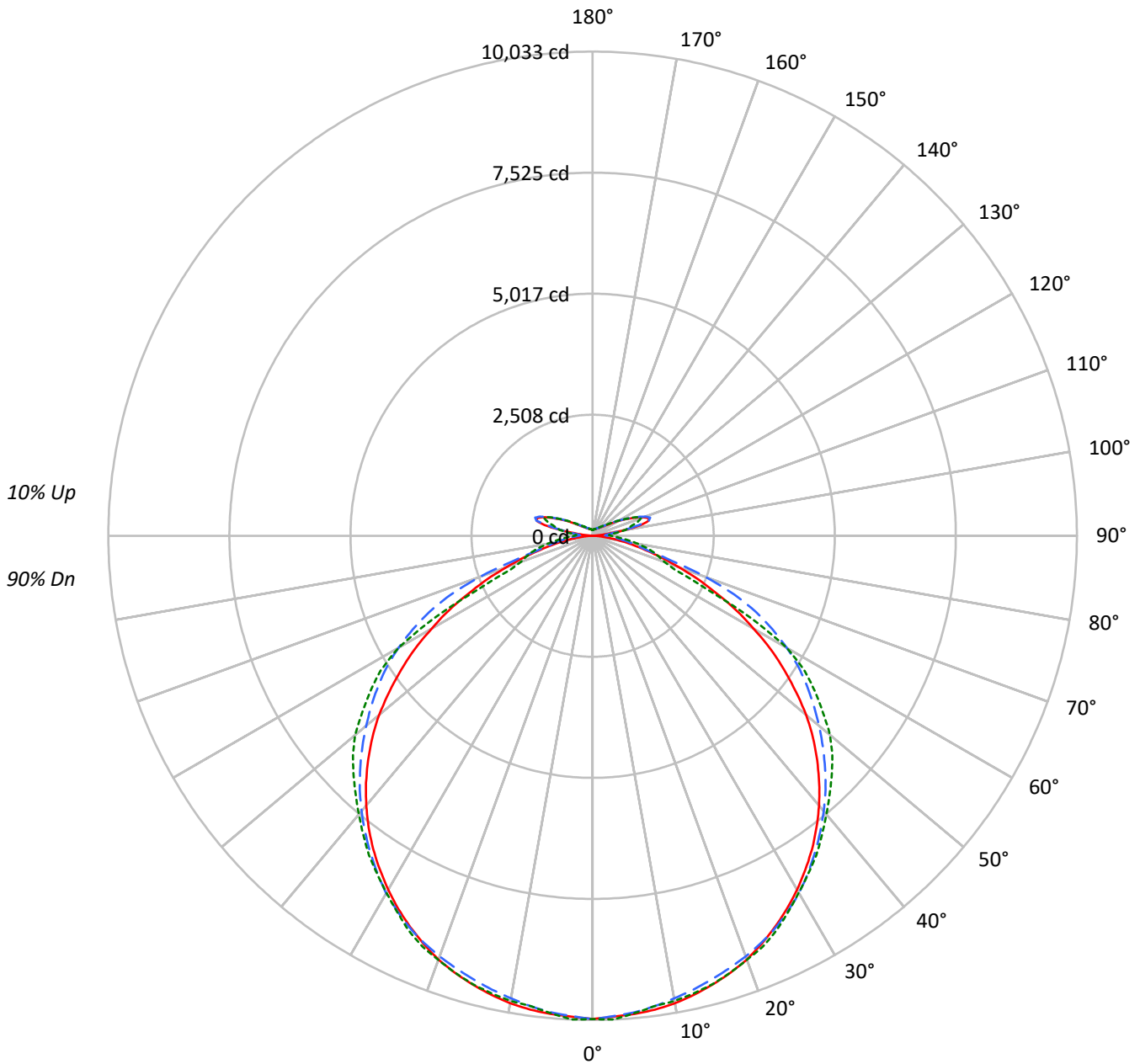
Lumens per Lamp: N/A
Luminaire Lumens: 31196.8 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 240.8
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76																			
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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	3.0
10°-20°	2707.3	8.7
20°-30°	4135.0	13.3
30°-40°	5017.1	16.1
40°-50°	5258.4	16.9
50°-60°	4764.9	15.3
60°-70°	3194.7	10.2
70°-80°	1434.5	4.6
80°-90°	526.8	1.7
90°-100°	379.1	1.2
100°-110°	1081.2	3.5
110°-120°	870.7	2.8
120°-130°	415.0	1.3
130°-140°	213.8	0.7
140°-150°	126.2	0.4
150°-160°	75.5	0.2
160°-170°	40.1	0.1
170°-180°	12.3	0.0
0°-30°	7786.4	25.0
0°-40°	12803.6	41.0
0°-60°	22826.9	73.2
0°-90°	27983.0	89.7
90°-120°	2330.9	7.5
90°-150°	3085.9	9.9
90°-180°	3214.0	10.3
0°-180°	31196.8	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°	8	163	296	365	380	16
95°	52	177	301	374	393	189
105°	1200	1225	1203	933	857	1142
115°	844	839	870	887	882	852
125°	420	436	460	457	451	396
135°	256	263	270	280	282	202
145°	189	195	199	203	205	121
155°	157	161	163	165	163	73
165°	138	140	140	141	142	39
175°	128	128	127	125	126	12
180°	124	124	124	124	124	



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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°	7.9	162.6	295.6	365.1	<i>380.4</i>
92.5°	21.7	142.6	262.1	325.2	<i>340.1</i>
95°	51.6	176.9	301.3	373.9	<i>392.6</i>
97.5°	305.2	385.7	422.5	506.5	<i>531.6</i>
100°	653.5	716.7	633.8	662.4	<i>683.0</i>
102.5°	1022.7	1071.2	913.3	792.9	<i>772.9</i>
105°	1199.7	1224.8	1202.9	933.3	<i>856.8</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	988.2	1000.8	1020.8	1030.6	1007.7
115°	844.1	838.6	869.7	887.0	881.8
117.5°	723.7	718.5	746.7	752.2	746.2
120°	610.5	612.0	638.9	634.9	629.9
122.5°	507.9	519.2	540.8	540.0	530.9
125°	419.9	435.9	460.1	457.2	450.6
127.5°	363.2	368.0	391.0	391.2	392.7
130°	313.9	321.8	338.0	345.3	343.7
132.5°	281.4	289.3	301.8	309.9	312.3
135°	255.5	262.6	270.5	280.2	282.4
137.5°	236.0	240.8	245.7	257.0	259.2
140°	218.2	223.0	226.4	235.5	236.9
142.5°	202.2	208.5	211.1	217.8	219.3
145°	189.2	194.7	198.8	202.6	204.9
147.5°	181.0	184.2	188.3	189.1	191.3
150°	172.1	174.5	177.8	179.4	180.2
152.5°	164.0	166.4	169.7	170.5	171.3
155°	156.7	160.6	163.0	164.7	163.2
157.5°	150.3	154.1	156.6	157.4	157.4
160°	145.4	148.5	150.9	150.9	151.7
162.5°	142.0	143.6	145.3	146.1	146.9
165°	138.0	139.6	140.4	141.2	142.0
167.5°	134.7	137.0	136.4	137.2	137.2
170°	131.5	132.3	133.1	131.7	132.5
172.5°	129.1	129.9	130.7	129.3	129.3
175°	127.5	127.5	126.8	125.4	126.2
177.5°	127.3	126.7	125.2	123.8	123.1
180°	124.4	124.4	124.4	124.4	124.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1212.5	1235.1	1249.5	1123.3	985.6
110°	1120.9	1146.0	1163.5	1130.5	1069.5



(END OF REPORT)