

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: P826591

Luminaire Tested: **OHBL-36HE-MFL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826591  
REPORT IS A COMBINATION OF REPORTS P826169 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-MFL-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

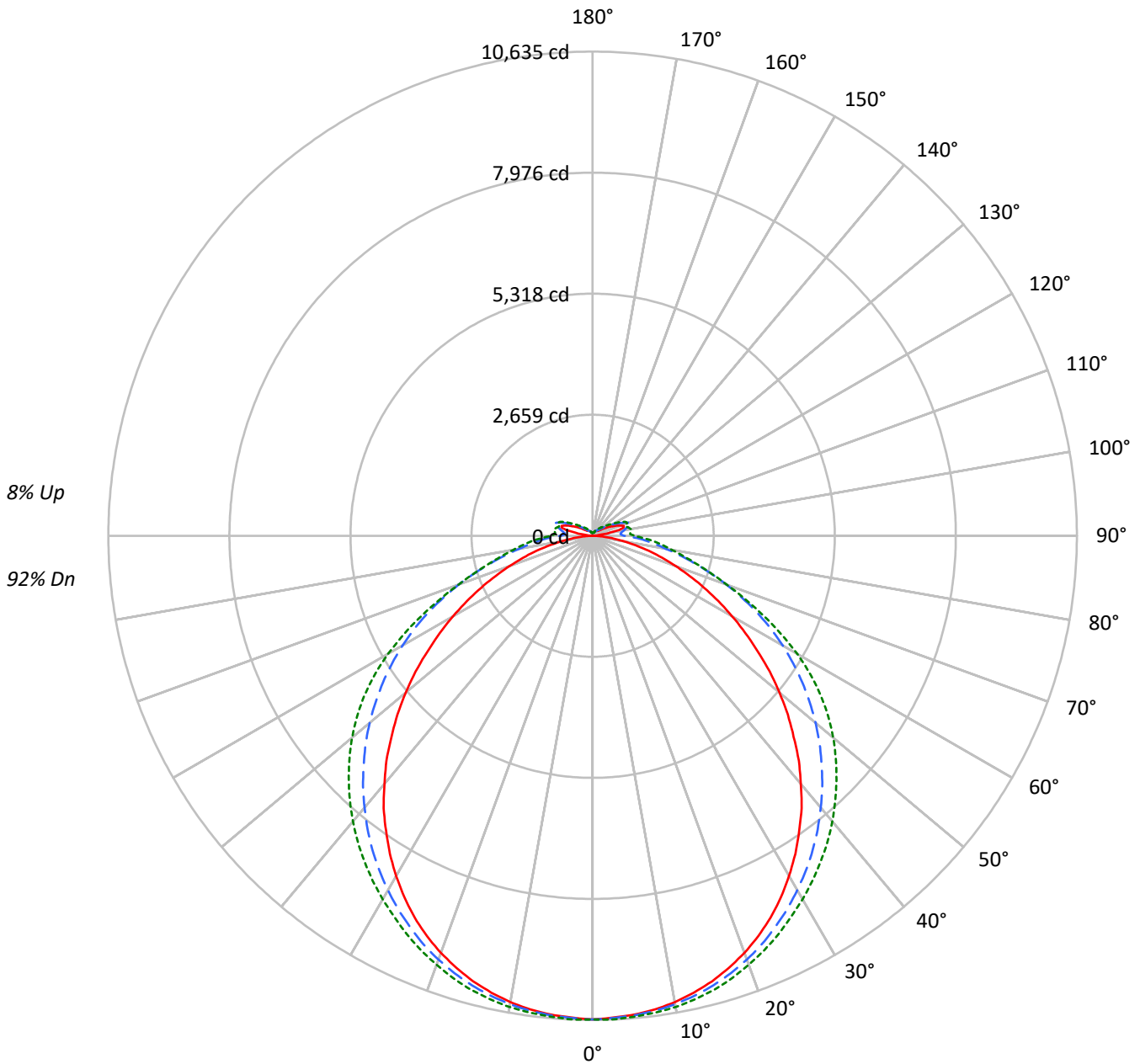
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33462.7 lumens  
Efficiency: N/A  
Efficacy: 149.2 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: 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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	69	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24																			
10	52	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

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

	0°	45°	90°
0°	16802	16802	16802
5°	16624	16643	16765
10°	16438	16496	16748
15°	16185	16321	16704
20°	15871	16106	16608
25°	15475	15838	16512
30°	14955	15547	16420
35°	14341	15238	16357
40°	13618	14881	16306
45°	12779	14493	16225
50°	11869	14100	16119
55°	10770	13620	15870
60°	9646	13054	15244
65°	8426	12331	14117
70°	7111	11410	12912
75°	5774	10345	12279
80°	4146	9575	12863
85°	2338	9952	16126



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1006.7	3.0
10°-20°	2888.1	8.6
20°-30°	4367.8	13.1
30°-40°	5243.6	15.7
40°-50°	5415.8	16.2
50°-60°	4872.5	14.6
60°-70°	3670.4	11.0
70°-80°	2216.3	6.6
80°-90°	1088.1	3.3
90°-100°	615.6	1.8
100°-110°	813.8	2.4
110°-120°	628.3	1.9
120°-130°	314.8	0.9
130°-140°	159.6	0.5
140°-150°	88.3	0.3
150°-160°	46.9	0.1
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	8262.7	24.7
0°-40°	13506.2	40.4
0°-60°	23794.5	71.1
0°-90°	30769.3	92.0
90°-120°	2057.7	6.1
90°-150°	2620.4	7.8
90°-180°	2693.0	8.0
0°-180°	33462.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10624	10624	10624	10624	10624	
5°	10557	10585	10572	10614	10601	###
15°	10130	10180	10227	10312	10323	2856
25°	9252	9353	9486	9634	9657	4255
35°	7910	8094	8427	8682	8734	4945
45°	6243	6558	7106	7494	7574	4820
55°	4423	4881	5622	6045	6118	3966
65°	2699	3250	3978	4176	4129	2681
75°	1272	1825	2304	2364	2340	1356
85°	265	700	1154	1313	1336	306
90°	4	296	692	874	912	19
95°	48	261	614	785	830	122
105°	708	790	869	785	769	672
115°	498	543	659	713	723	503
125°	254	272	357	403	409	238
135°	156	164	200	241	252	123
145°	126	126	131	153	161	79
155°	106	110	109	107	110	46
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10624.4	10624.4	10624.4	<i>10624.4</i>	10624.4
2.5°	<i>10593.3</i>	<i>10619.2</i>	<i>10603.6</i>	<i>10637.5</i>	<i>10634.9</i>
5°	10556.8	10585.4	10572.4	<i>10614.0</i>	10601.0
7.5°	10494.4	10525.6	10523.0	<i>10569.8</i>	10564.6
10°	10403.4	10437.2	10447.6	<i>10510.0</i>	10510.0
12.5°	10278.5	10322.8	10348.8	<i>10424.2</i>	10426.8
15°	10130.4	10179.8	10226.6	<i>10312.4</i>	10322.8
17.5°	9951.0	10013.3	10078.4	<i>10177.2</i>	10190.1
20°	9748.1	9818.4	9906.8	<i>10010.7</i>	10026.4
22.5°	9514.1	9597.4	9711.7	<i>9833.9</i>	9852.2
25°	9251.5	9352.9	9485.5	<i>9633.8</i>	9657.1
27.5°	8952.5	9069.5	9248.9	<i>9415.4</i>	9436.1
30°	8627.5	8765.3	8988.9	<i>9186.5</i>	9220.3
32.5°	8284.3	8442.8	8718.5	<i>8939.5</i>	8986.3
35°	7909.8	8094.4	8427.2	<i>8682.1</i>	8734.1
37.5°	7540.6	7743.4	8120.4	<i>8411.7</i>	8474.0
40°	7109.0	7361.2	7792.8	<i>8115.2</i>	8190.7
42.5°	6703.4	6976.4	7465.2	<i>7816.2</i>	7889.0
45°	6243.1	6557.7	7106.4	<i>7493.8</i>	7574.4
47.5°	5811.4	6152.1	6760.5	<i>7161.0</i>	7244.2
50°	5356.4	5730.8	6391.3	<i>6809.9</i>	6895.7
52.5°	4901.4	5304.4	6009.1	<i>6443.3</i>	6523.9
55°	4422.9	4880.6	5621.7	<i>6045.4</i>	6118.3
57.5°	3978.3	4461.9	5223.8	<i>5626.8</i>	5671.0
60°	3538.9	4040.8	4818.1	<i>5171.8</i>	5187.4
62.5°	3109.8	3637.6	4402.2	<i>4682.9</i>	4662.2
65°	2699.0	3250.2	3978.3	<i>4176.0</i>	4129.2
67.5°	2303.8	2873.2	3544.1	<i>3671.5</i>	3609.1
70°	1929.3	2506.6	3122.9	<i>3187.8</i>	3130.7
72.5°	1599.2	2158.1	2696.4	<i>2751.0</i>	2709.4
75°	1271.5	1825.4	2303.8	<i>2363.6</i>	2340.2
77.5°	964.7	1502.9	1942.3	<i>2020.3</i>	2025.5
80°	694.3	1209.1	1627.7	<i>1749.9</i>	1765.5
82.5°	457.6	938.7	1365.1	<i>1521.1</i>	1544.5
85°	265.2	699.5	1154.4	<i>1313.1</i>	1336.5
87.5°	114.4	504.5	928.2	<i>1071.3</i>	1099.9
90°	3.7	296.3	692.1	<i>874.0</i>	912.4
92.5°	19.9	256.9	618.0	<i>793.6</i>	829.6
95°	48.4	260.9	614.1	<i>784.6</i>	830.4
97.5°	197.1	354.3	650.6	<i>811.1</i>	849.3
100°	389.7	527.9	701.3	<i>826.2</i>	852.7
102.5°	601.0	704.0	747.5	<i>802.8</i>	815.4
105°	707.8	789.7	868.6	<i>784.8</i>	768.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	581.0	634.1	750.4	803.1	790.2
115°	498.2	542.8	658.8	713.1	722.6
117.5°	430.0	461.5	567.4	622.6	631.4
120°	363.0	390.4	487.7	536.9	545.5
122.5°	307.2	328.6	419.0	465.6	471.6
125°	253.5	272.4	357.0	402.8	408.7
127.5°	215.5	229.0	305.0	350.9	356.9
130°	189.5	198.6	261.3	306.4	315.2
132.5°	171.8	179.7	227.0	269.5	281.7
135°	156.0	163.9	199.8	240.6	252.0
137.5°	143.9	151.8	176.3	214.6	225.9
140°	136.2	141.5	157.4	190.5	201.7
142.5°	130.4	133.2	141.2	170.8	179.5
145°	126.5	125.7	131.1	152.9	160.7
147.5°	119.9	121.8	123.7	136.0	143.8
150°	114.4	118.8	118.1	121.6	130.4
152.5°	110.6	114.2	113.4	111.8	117.0
155°	106.0	110.5	108.8	107.1	109.7
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	714.3	789.7	894.3	831.6	763.6
110°	655.7	728.1	840.6	857.5	806.3



(END OF REPORT)