

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: P830629

Luminaire Tested: **OHBL-60HE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-60HE-MFL-UNV-L940-CD  
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

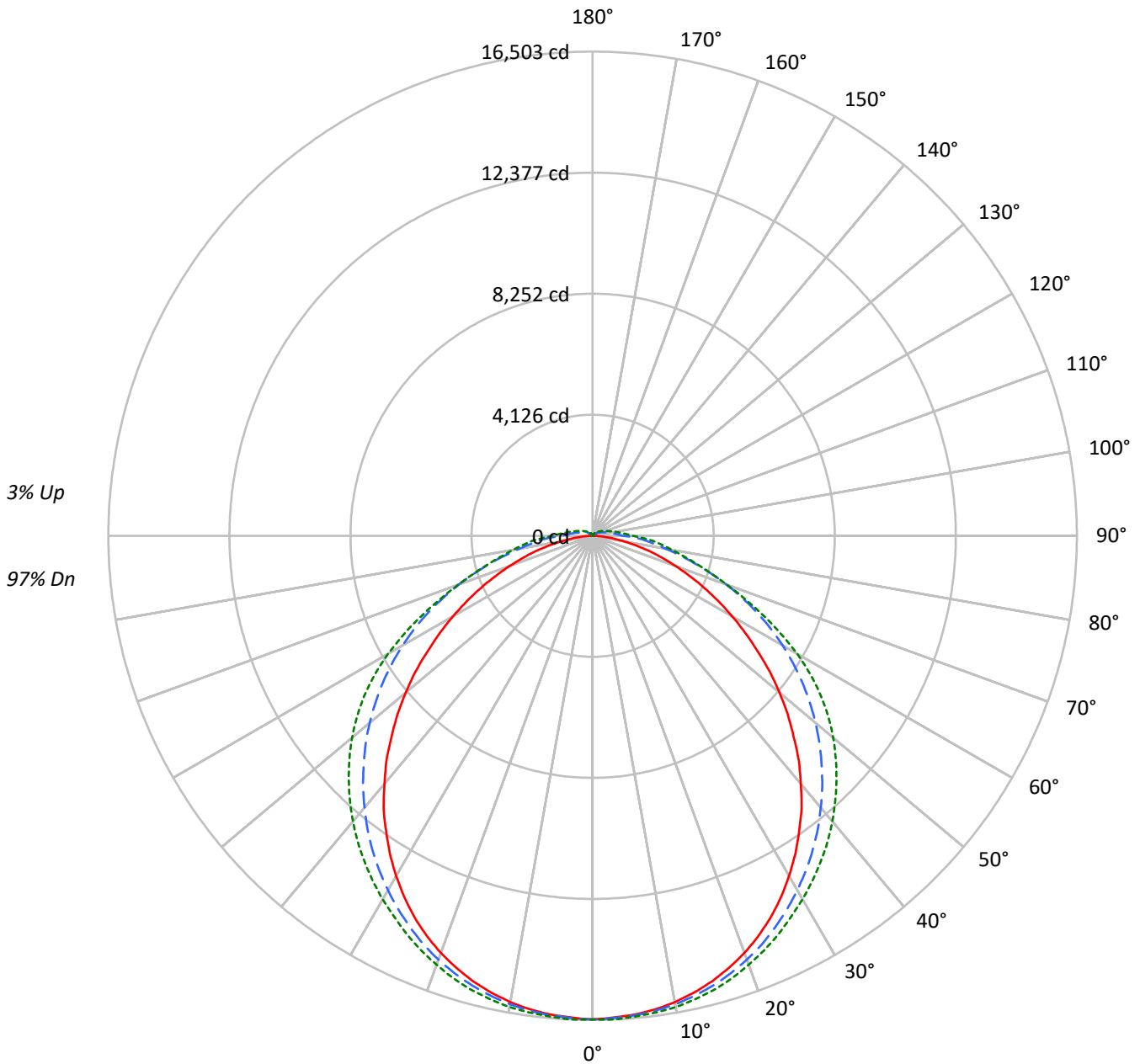
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49343.0 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 338  
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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CATALOG NUMBER: OHBL-60HE-MFL-UNV-L940-CD

### 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	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

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

	0°	45°	90°
0°	26074	26074	26074
5°	25907	25827	25906
10°	25725	25599	25770
15°	25438	25327	25592
20°	25057	24994	25331
25°	24547	24578	25067
30°	23842	24126	24802
35°	22988	23647	24573
40°	21962	23092	24348
45°	20753	22490	24060
50°	19430	21881	23711
55°	17804	21136	23120
60°	16138	20258	21942
65°	14319	19136	20005
70°	12348	17706	17907
75°	10353	16053	16490
80°	7849	14859	16360
85°	4966	15444	18282



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1562.2	3.2
10°-20°	4481.8	9.1
20°-30°	6778.0	13.7
30°-40°	8137.0	16.5
40°-50°	8404.2	17.0
50°-60°	7561.2	15.3
60°-70°	5695.7	11.5
70°-80°	3439.3	7.0
80°-90°	1682.1	3.4
90°-100°	708.0	1.4
100°-110°	404.2	0.8
110°-120°	237.3	0.5
120°-130°	134.2	0.3
130°-140°	70.6	0.1
140°-150°	34.4	0.1
150°-160°	12.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12822.0	26.0
0°-40°	20959.1	42.5
0°-60°	36924.5	74.8
0°-90°	47741.6	96.8
90°-120°	1349.4	2.7
90°-150°	1588.6	3.2
90°-180°	1601.0	3.2
0°-180°	49343.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16487	16487	16487	16487	16487	
5°	16382	16426	16406	16471	16451	###
15°	15720	15797	15870	16003	16019	4432
25°	14357	14514	14720	14950	14986	6604
35°	12274	12561	13078	13473	13554	7673
45°	9688	10176	11028	11629	11754	7479
55°	6864	7574	8724	9381	9494	6154
65°	4188	5044	6174	6480	6408	4161
75°	1973	2833	3575	3668	3632	2105
85°	412	1085	1792	2038	2074	476
90°	0	424	1025	1291	1344	26
95°	20	286	767	976	1013	17
105°	28	165	444	581	605	28
115°	32	93	274	367	383	33
125°	32	44	165	238	250	29
135°	28	36	85	145	161	22
145°	40	36	40	73	85	24
155°	40	44	40	36	40	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830629

CATALOG NUMBER: OHBL-60HE-MFL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16487.1	16487.1	16487.1	<i>16487.1</i>	16487.1
2.5°	<i>16438.6</i>	<i>16479.0</i>	<i>16454.8</i>	<i>16507.2</i>	<i>16503.2</i>
5°	16382.2	16426.5	16406.4	<i>16470.9</i>	16450.8
7.5°	16285.3	16333.7	16329.7	<i>16402.3</i>	16394.3
10°	16144.1	16196.5	16212.7	<i>16309.5</i>	16309.5
12.5°	15950.4	16019.0	16059.4	<i>16176.4</i>	16180.4
15°	15720.4	15797.1	15869.7	<i>16002.9</i>	16019.0
17.5°	15442.0	15538.8	15639.7	<i>15793.0</i>	15813.2
20°	15127.3	15236.2	15373.4	<i>15534.8</i>	15559.0
22.5°	14764.1	14893.2	15070.8	<i>15260.4</i>	15288.7
25°	14356.6	14513.9	14719.7	<i>14949.7</i>	14986.0
27.5°	13892.6	14074.1	14352.5	<i>14610.8</i>	14643.1
30°	13388.2	13602.0	13949.0	<i>14255.7</i>	14308.2
32.5°	12855.6	13101.7	13529.4	<i>13872.4</i>	13945.0
35°	12274.5	12561.0	13077.5	<i>13472.9</i>	13553.6
37.5°	11701.5	12016.3	12601.3	<i>13053.3</i>	13150.1
40°	11031.7	11423.1	12092.9	<i>12593.3</i>	12710.3
42.5°	10402.3	10825.9	11584.5	<i>12129.3</i>	12242.2
45°	9688.1	10176.3	11027.7	<i>11628.9</i>	11754.0
47.5°	9018.3	9546.8	10491.0	<i>11112.4</i>	11241.5
50°	8312.1	8893.2	9918.1	<i>10567.7</i>	10700.9
52.5°	7606.0	8231.4	9324.9	<i>9998.8</i>	10123.8
55°	6863.6	7573.7	8723.7	<i>9381.4</i>	9494.4
57.5°	6173.6	6924.1	8106.3	<i>8731.8</i>	8800.4
60°	5491.7	6270.4	7476.9	<i>8025.6</i>	8049.9
62.5°	4825.9	5645.0	6831.3	<i>7267.1</i>	7234.8
65°	4188.3	5043.8	6173.6	<i>6480.2</i>	6407.6
67.5°	3575.0	4458.7	5499.7	<i>5697.4</i>	5600.6
70°	2994.0	3889.8	4846.1	<i>4946.9</i>	4858.2
72.5°	2481.5	3349.1	4184.3	<i>4269.0</i>	4204.5
75°	1973.1	2832.6	3575.0	<i>3667.8</i>	3631.5
77.5°	1497.0	2332.2	3014.2	<i>3135.2</i>	3143.3
80°	1077.3	1876.3	2525.9	<i>2715.6</i>	2739.8
82.5°	710.2	1456.6	2118.4	<i>2360.5</i>	2396.8
85°	411.6	1085.4	1791.5	<i>2037.7</i>	2074.0
87.5°	177.5	782.8	1440.5	<i>1662.4</i>	1706.8
90°	0.0	423.7	1024.9	<i>1291.2</i>	1343.7
92.5°	12.1	351.0	879.6	<i>1121.7</i>	1166.1
95°	20.2	286.5	766.7	<i>976.5</i>	1012.8
97.5°	24.2	242.1	665.8	<i>851.4</i>	887.7
100°	24.2	209.8	577.0	<i>746.5</i>	778.8
102.5°	24.2	185.6	504.4	<i>653.7</i>	681.9
105°	28.2	165.4	443.9	<i>581.0</i>	605.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.3	108.9	306.7	411.6	427.7
115°	32.3	92.8	274.4	367.2	383.3
117.5°	36.3	80.7	242.1	330.9	343.0
120°	36.3	68.6	213.9	294.6	310.7
122.5°	36.3	56.5	189.6	266.3	278.4
125°	32.3	44.4	165.4	238.1	250.2
127.5°	28.2	36.3	141.2	213.9	226.0
130°	28.2	32.3	121.1	189.6	201.8
132.5°	28.2	36.3	100.9	165.4	181.6
135°	28.2	36.3	84.7	145.3	161.4
137.5°	28.2	36.3	68.6	125.1	141.2
140°	32.3	36.3	56.5	104.9	121.1
142.5°	36.3	36.3	44.4	88.8	100.9
145°	40.4	36.3	40.4	72.6	84.7
147.5°	40.4	40.4	40.4	56.5	68.6
150°	40.4	44.4	40.4	44.4	56.5
152.5°	40.4	44.4	40.4	36.3	44.4
155°	40.4	44.4	40.4	36.3	40.4
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	28.2	145.3	391.4	516.5	536.7
110°	28.2	129.1	347.0	460.0	480.2



(END OF REPORT)