

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: P830469

Luminaire Tested: **OHBL-48HE-MCL-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-MCL-UNV-L840-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

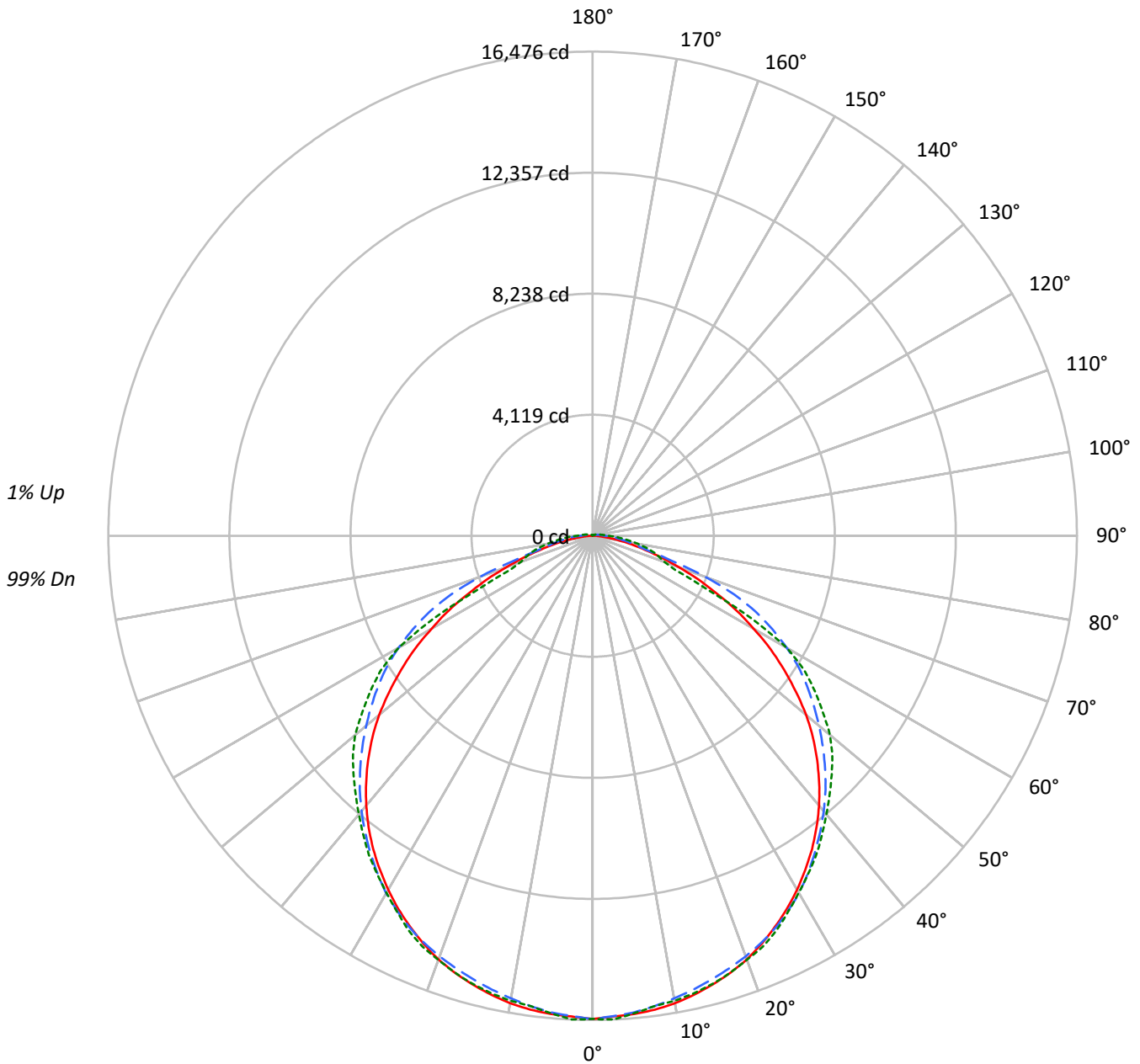
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46473.1 lumens  
Efficiency: N/A  
Efficacy: 174.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 266  
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

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

	0°	45°	90°
0°	26003	26003	26003
5°	25833	25625	25679
10°	25738	25237	25394
15°	25575	24947	25224
20°	25411	24764	25000
25°	25105	24580	24779
30°	24771	24290	24311
35°	24373	23829	24052
40°	23854	23353	23700
45°	23136	22803	23544
50°	22162	22176	23357
55°	20616	21559	22486
60°	18590	20657	20788
65°	15947	18982	13175
70°	12845	14819	9552
75°	9630	8797	9694
80°	6704	7314	9256
85°	3815	6702	8675



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1550.3	3.3
10°-20°	4445.7	9.6
20°-30°	6789.9	14.6
30°-40°	8238.5	17.7
40°-50°	8634.7	18.6
50°-60°	7824.4	16.8
60°-70°	5245.9	11.3
70°-80°	2355.7	5.1
80°-90°	854.8	1.8
90°-100°	257.3	0.6
100°-110°	121.4	0.3
110°-120°	60.8	0.1
120°-130°	33.6	0.1
130°-140°	23.1	0.0
140°-150°	15.5	0.0
150°-160°	11.5	0.0
160°-170°	7.4	0.0
170°-180°	2.4	0.0
0°-30°	12785.9	27.5
0°-40°	21024.4	45.2
0°-60°	37483.6	80.7
0°-90°	45940.0	98.9
90°-120°	439.6	0.9
90°-150°	511.8	1.1
90°-180°	533.0	1.1
0°-180°	46473.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16442	16442	16442	16442	16442	
5°	16335	16392	16278	16328	16307	###
15°	15805	15743	15632	15769	15788	4462
25°	14683	14619	14721	14856	14814	6768
35°	13014	13045	13178	13318	13266	8134
45°	10801	10976	11181	11466	11502	8320
55°	7948	8330	8899	9255	9234	7094
65°	4664	5394	6124	5168	4220	4648
75°	1835	2663	1959	2004	2135	2006
85°	316	606	777	939	984	386
90°	2	202	402	504	528	19
95°	2	126	276	335	345	3
105°	10	55	136	164	171	11
115°	19	28	69	88	93	18
125°	17	19	43	50	52	17
135°	21	24	26	38	40	17
145°	21	24	24	26	28	14
155°	24	26	26	26	24	11
165°	26	26	26	26	26	7
175°	26	26	24	21	21	3
180°	24	24	24	24	24	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16442.2	16442.2	16442.2	16442.2	16442.2
2.5°	16375.6	16444.6	16359.0	16451.7	16475.5
5°	16335.2	16392.3	16278.1	16328.1	16306.7
7.5°	16261.5	16280.5	16145.0	16185.4	16142.6
10°	16152.1	16142.6	15983.3	16061.8	16071.3
12.5°	15990.5	15961.9	15819.3	15938.2	15940.6
15°	15805.0	15743.2	15631.5	15769.4	15788.4
17.5°	15591.1	15510.2	15436.5	15614.8	15586.3
20°	15341.4	15246.3	15232.1	15427.0	15355.7
22.5°	15032.4	14958.7	14992.0	15177.4	15132.2
25°	14682.9	14618.7	14720.9	14856.5	14813.7
27.5°	14314.4	14276.4	14392.9	14497.5	14414.3
30°	13910.2	13888.8	14043.4	14129.0	14024.4
32.5°	13470.4	13477.6	13625.0	13741.4	13644.0
35°	13014.0	13044.9	13178.0	13318.3	13266.0
37.5°	12512.3	12581.3	12714.4	12873.7	12819.0
40°	11982.2	12082.0	12229.4	12422.0	12372.1
42.5°	11409.2	11535.2	11725.4	11939.4	11934.6
45°	10800.6	10976.5	11181.0	11466.3	11501.9
47.5°	10168.2	10365.5	10624.7	11005.0	11059.7
50°	9481.1	9728.4	10051.7	10508.2	10541.4
52.5°	8715.6	9053.2	9481.1	9918.6	9878.2
55°	7947.7	8330.5	8898.7	9255.3	9233.9
57.5°	7182.2	7612.5	8301.9	8556.3	8553.9
60°	6326.3	6870.7	7624.4	7816.9	7626.7
62.5°	5534.6	6119.5	6901.6	6761.4	6110.0
65°	4664.5	5394.3	6124.2	5168.5	4219.9
67.5°	3891.8	4652.6	5201.8	3540.0	3031.2
70°	3114.4	3953.6	4055.9	2627.0	2591.4
72.5°	2425.0	3318.9	2798.2	2249.0	2363.1
75°	1835.4	2662.7	1959.0	2004.2	2134.9
77.5°	1338.5	2044.6	1523.9	1756.9	1863.9
80°	920.1	1447.8	1243.4	1476.4	1550.1
82.5°	577.7	955.7	996.1	1188.7	1264.8
85°	316.2	606.2	777.4	939.1	984.2
87.5°	130.8	366.1	594.4	725.1	763.1
90°	2.4	202.1	401.8	504.0	527.8
92.5°	2.4	154.5	328.1	406.5	423.2
95°	2.4	126.0	275.8	335.2	344.7
97.5°	4.8	99.9	230.6	278.2	287.7
100°	7.1	83.2	192.6	233.0	240.1
102.5°	9.5	66.6	161.7	194.9	202.1
105°	9.5	54.7	135.5	164.0	171.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	16.6	33.3	80.8	102.2	107.0
115°	19.0	28.5	68.9	88.0	92.7
117.5°	19.0	23.8	59.4	73.7	78.5
120°	19.0	21.4	52.3	64.2	66.6
122.5°	19.0	19.0	45.2	57.1	59.4
125°	16.6	19.0	42.8	49.9	52.3
127.5°	19.0	19.0	38.0	45.2	47.5
130°	19.0	21.4	33.3	42.8	42.8
132.5°	21.4	23.8	30.9	40.4	40.4
135°	21.4	23.8	26.2	38.0	40.4
137.5°	23.8	23.8	23.8	35.7	38.0
140°	23.8	23.8	21.4	30.9	33.3
142.5°	21.4	23.8	21.4	28.5	30.9
145°	21.4	23.8	23.8	26.2	28.5
147.5°	23.8	23.8	23.8	23.8	26.2
150°	23.8	23.8	23.8	23.8	23.8
152.5°	23.8	23.8	23.8	23.8	23.8
155°	23.8	26.2	26.2	26.2	23.8
157.5°	23.8	26.2	26.2	26.2	26.2
160°	23.8	26.2	26.2	26.2	26.2
162.5°	26.2	26.2	26.2	26.2	26.2
165°	26.2	26.2	26.2	26.2	26.2
167.5°	26.2	28.5	26.2	26.2	26.2
170°	26.2	26.2	26.2	23.8	23.8
172.5°	26.2	26.2	26.2	23.8	23.8
175°	26.2	26.2	23.8	21.4	21.4
177.5°	28.5	26.2	23.8	21.4	19.0
180°	23.8	23.8	23.8	23.8	23.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	11.9	45.2	116.5	140.3	145.0
110°	14.3	38.0	97.5	118.9	123.6



(END OF REPORT)