

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: P830541

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830541  
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-48SE-MCL-UNV-L840-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

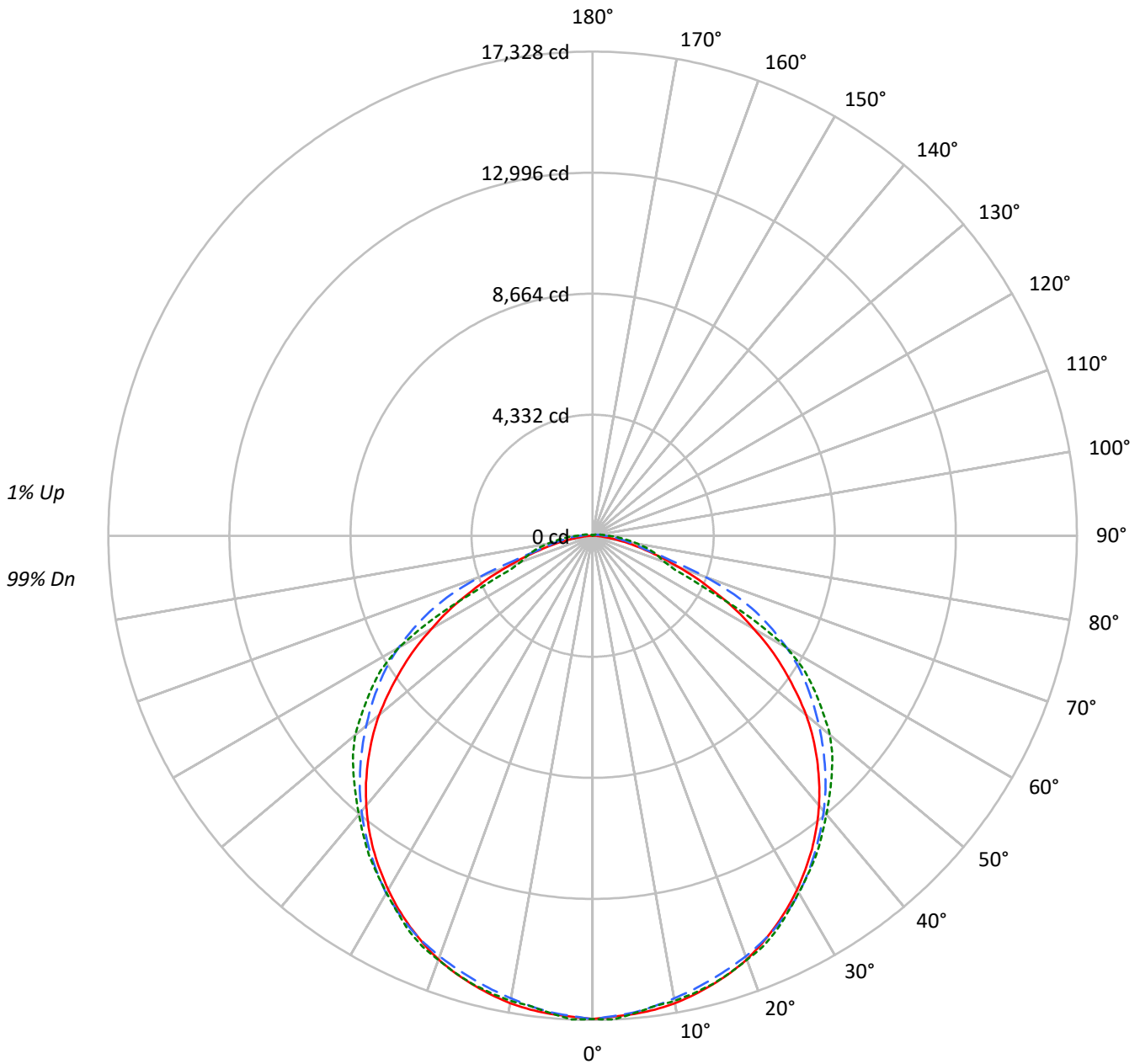
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48878.0 lumens  
Efficiency: N/A  
Efficacy: 169.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
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°	29536	29536	29536
5°	29343	29094	29150
10°	29236	28640	28807
15°	29050	28298	28596
20°	28865	28077	28324
25°	28516	27855	28054
30°	28138	27511	27502
35°	27685	26974	27188
40°	27096	26419	26766
45°	26280	25778	26563
50°	25174	25049	26322
55°	23417	24329	25305
60°	21116	23283	23355
65°	18114	21363	14769
70°	14591	16643	10677
75°	10939	9851	10790
80°	7614	8152	10232
85°	4334	7402	9466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1630.6	3.3
10°-20°	4675.7	9.6
20°-30°	7141.3	14.6
30°-40°	8664.9	17.7
40°-50°	9081.6	18.6
50°-60°	8229.3	16.8
60°-70°	5517.4	11.3
70°-80°	2477.6	5.1
80°-90°	899.1	1.8
90°-100°	270.6	0.6
100°-110°	127.7	0.3
110°-120°	64.0	0.1
120°-130°	35.3	0.1
130°-140°	24.3	0.0
140°-150°	16.3	0.0
150°-160°	12.1	0.0
160°-170°	7.8	0.0
170°-180°	2.5	0.0
0°-30°	13447.6	27.5
0°-40°	22112.5	45.2
0°-60°	39423.3	80.7
0°-90°	48317.4	98.9
90°-120°	462.3	0.9
90°-150°	538.2	1.1
90°-180°	561.0	1.1
0°-180°	48878.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17293	17293	17293	17293	17293	
5°	17181	17241	17120	17173	17151	###
15°	16623	16558	16440	16586	16606	4693
25°	15443	15375	15483	15625	15580	7118
35°	13687	13720	13860	14008	13952	8555
45°	11360	11545	11760	12060	12097	8751
55°	8359	8762	9359	9734	9712	7461
65°	4906	5674	6441	5436	4438	4888
75°	1930	2800	2060	2108	2245	2110
85°	333	638	818	988	1035	406
90°	2	212	423	530	555	20
95°	2	132	290	353	363	3
105°	10	58	142	172	180	12
115°	20	30	72	92	98	19
125°	18	20	45	52	55	17
135°	22	25	28	40	42	18
145°	22	25	25	28	30	15
155°	25	28	28	28	25	12
165°	28	28	28	28	28	8
175°	28	28	25	22	22	3
180°	25	25	25	25	25	



TEST NUMBER: P830541

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17293.1	17293.1	17293.1	17293.1	17293.1
2.5°	17223.1	17295.6	17205.6	17303.1	17328.1
5°	17180.6	17240.6	17120.5	17173.1	17150.6
7.5°	17103.0	17123.0	16980.5	17023.0	16978.0
10°	16988.0	16978.0	16810.5	16893.0	16903.0
12.5°	16818.0	16788.0	16638.0	16763.0	16765.5
15°	16623.0	16557.9	16440.4	16585.5	16605.5
17.5°	16397.9	16312.9	16235.4	16422.9	16392.9
20°	16135.4	16035.4	16020.4	16225.4	16150.4
22.5°	15810.3	15732.8	15767.8	15962.8	15915.3
25°	15442.7	15375.2	15482.8	15625.3	15580.3
27.5°	15055.2	15015.2	15137.7	15247.7	15160.2
30°	14630.1	14607.6	14770.1	14860.1	14750.1
32.5°	14167.5	14175.0	14330.1	14452.6	14350.1
35°	13687.4	13719.9	13860.0	14007.5	13952.5
37.5°	13159.8	13232.4	13372.4	13539.9	13482.4
40°	12602.2	12707.3	12862.3	13064.8	13012.3
42.5°	11999.6	12132.2	12332.2	12557.2	12552.2
45°	11359.5	11544.6	11759.6	12059.6	12097.2
47.5°	10694.4	10901.9	11174.5	11574.6	11632.1
50°	9971.8	10231.8	10571.9	11052.0	11087.0
52.5°	9166.6	9521.7	9971.8	10431.9	10389.3
55°	8359.0	8761.6	9359.2	9734.2	9711.7
57.5°	7553.8	8006.4	8731.6	8999.1	8996.6
60°	6653.7	7226.3	8018.9	8221.5	8021.4
62.5°	5821.0	6436.1	7258.8	7111.3	6426.1
65°	4905.9	5673.5	6441.1	5436.0	4438.3
67.5°	4093.2	4893.4	5471.0	3723.2	3188.1
70°	3275.6	4158.2	4265.8	2763.0	2725.5
72.5°	2550.5	3490.6	2943.0	2365.4	2485.4
75°	1930.3	2800.5	2060.4	2107.9	2245.4
77.5°	1407.8	2150.4	1602.8	1847.8	1960.3
80°	967.7	1522.8	1307.7	1552.8	1630.3
82.5°	607.6	1005.2	1047.7	1250.2	1330.2
85°	332.6	637.6	817.6	987.7	1035.2
87.5°	137.5	385.1	625.1	762.6	802.6
90°	2.5	212.5	422.6	530.1	555.1
92.5°	2.5	162.5	345.1	427.6	445.1
95°	2.5	132.5	290.1	352.6	362.6
97.5°	5.0	105.0	242.5	292.6	302.6
100°	7.5	87.5	202.5	245.0	252.5
102.5°	10.0	70.0	170.0	205.0	212.5
105°	10.0	57.5	142.5	172.5	180.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.5	35.0	85.0	107.5	112.5
115°	20.0	30.0	72.5	92.5	97.5
117.5°	20.0	25.0	62.5	77.5	82.5
120°	20.0	22.5	55.0	67.5	70.0
122.5°	20.0	20.0	47.5	60.0	62.5
125°	17.5	20.0	45.0	52.5	55.0
127.5°	20.0	20.0	40.0	47.5	50.0
130°	20.0	22.5	35.0	45.0	45.0
132.5°	22.5	25.0	32.5	42.5	42.5
135°	22.5	25.0	27.5	40.0	42.5
137.5°	25.0	25.0	25.0	37.5	40.0
140°	25.0	25.0	22.5	32.5	35.0
142.5°	22.5	25.0	22.5	30.0	32.5
145°	22.5	25.0	25.0	27.5	30.0
147.5°	25.0	25.0	25.0	25.0	27.5
150°	25.0	25.0	25.0	25.0	25.0
152.5°	25.0	25.0	25.0	25.0	25.0
155°	25.0	27.5	27.5	27.5	25.0
157.5°	25.0	27.5	27.5	27.5	27.5
160°	25.0	27.5	27.5	27.5	27.5
162.5°	27.5	27.5	27.5	27.5	27.5
165°	27.5	27.5	27.5	27.5	27.5
167.5°	27.5	30.0	27.5	27.5	27.5
170°	27.5	27.5	27.5	25.0	25.0
172.5°	27.5	27.5	27.5	25.0	25.0
175°	27.5	27.5	25.0	22.5	22.5
177.5°	30.0	27.5	25.0	22.5	20.0
180°	25.0	25.0	25.0	25.0	25.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.5	47.5	122.5	147.5	152.5
110°	15.0	40.0	102.5	125.0	130.0



(END OF REPORT)