

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: P830586

Luminaire Tested: **OHBL-48SE-W-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-W-UNV-L750-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

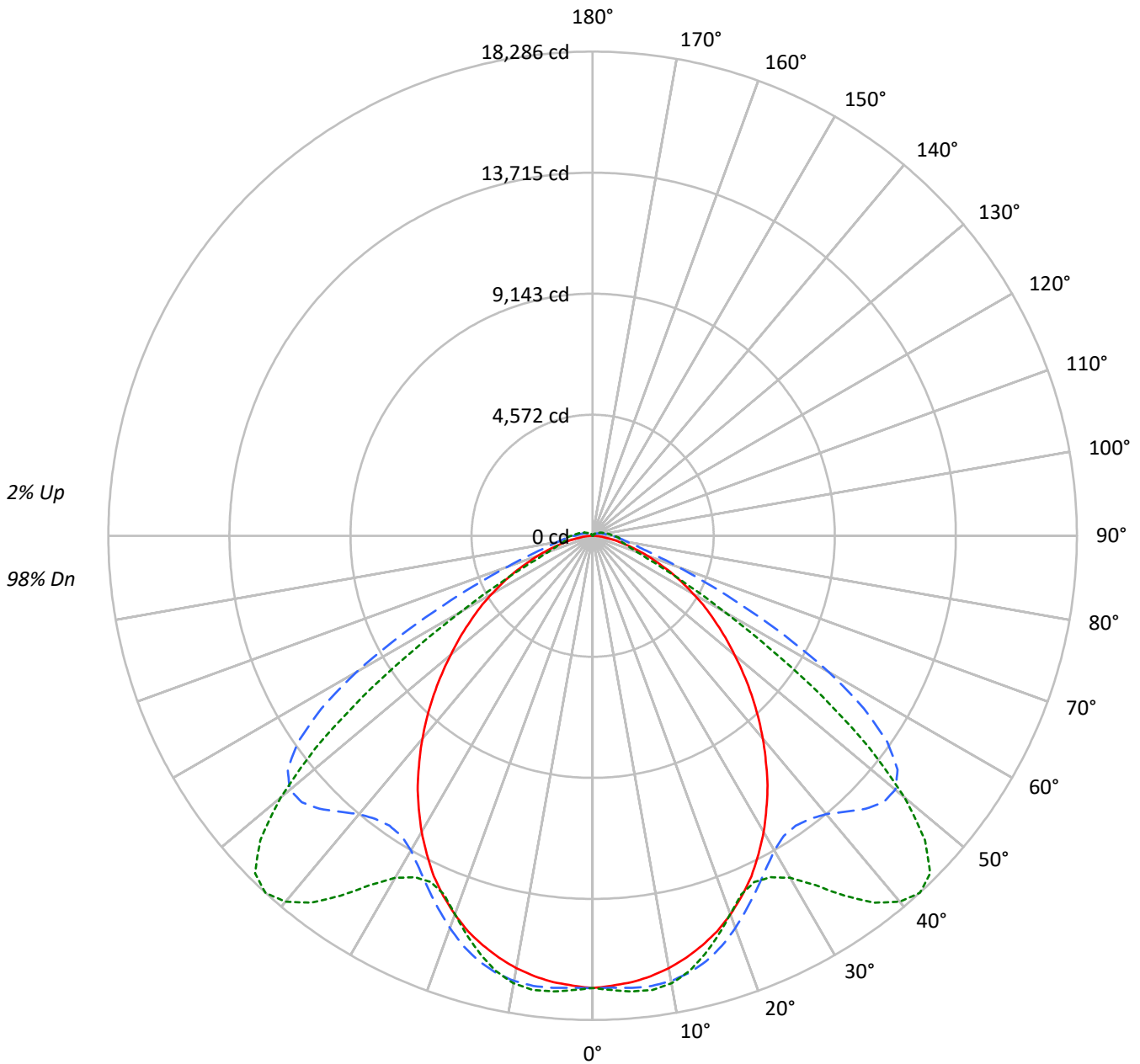
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51143.0 lumens  
Efficiency: N/A  
Efficacy: 177.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

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

	0°	45°	90°
0°	29174	29174	29174
5°	28902	29133	29363
10°	28539	29089	29255
15°	27983	28607	28177
20°	27220	27624	26660
25°	26200	26433	25985
30°	24842	25548	27801
35°	23293	26020	32329
40°	21496	28181	37114
45°	19617	31966	39578
50°	17658	35346	36493
55°	15816	35301	27577
60°	13941	29864	16631
65°	11961	20619	9896
70°	9718	13328	6972
75°	7393	9550	6234
80°	5307	8385	6615
85°	3602	9208	9199



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1632.3	3.2
10°-20°	4622.1	9.0
20°-30°	6763.6	13.2
30°-40°	8784.0	17.2
40°-50°	10726.4	21.0
50°-60°	9446.2	18.5
60°-70°	4922.5	9.6
70°-80°	2110.9	4.1
80°-90°	1013.8	2.0
90°-100°	476.3	0.9
100°-110°	296.0	0.6
110°-120°	175.0	0.3
120°-130°	95.1	0.2
130°-140°	47.7	0.1
140°-150°	23.0	0.0
150°-160°	8.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13018.0	25.5
0°-40°	21802.0	42.6
0°-60°	41974.6	82.1
0°-90°	50021.8	97.8
90°-120°	947.3	1.9
90°-150°	1113.2	2.2
90°-180°	1121.0	2.2
0°-180°	51143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17081	17081	17081	17081	17081	
5°	16922	17051	17144	17295	17276	###
15°	16012	16462	16620	16495	16362	4509
25°	14188	14947	14693	14416	14431	6511
35°	11516	12732	13370	15592	16591	7178
45°	8480	10669	14582	17656	18024	6538
55°	5646	9346	13580	11907	10584	5067
65°	3239	6475	6217	3457	2974	3205
75°	1305	3029	1997	1367	1297	1423
85°	276	1080	1017	995	1006	308
90°	4	391	671	766	785	19
95°	7	228	534	626	645	6
105°	15	129	346	416	424	16
115°	22	74	214	262	269	23
125°	26	37	125	162	166	22
135°	22	22	59	100	103	17
145°	30	22	26	48	55	17
155°	30	30	22	22	22	9
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-48SE-W-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17080.8	17080.8	17080.8	17080.8	17080.8
2.5°	17007.1	17080.8	17084.5	17187.7	17176.6
5°	16922.4	17051.3	17143.5	17294.6	17276.1
7.5°	16782.3	16985.0	17147.2	17313.0	17298.3
10°	16583.3	16859.7	17073.5	17209.8	17165.6
12.5°	16325.4	16690.2	16900.3	16929.7	16845.0
15°	16012.1	16461.7	16620.2	16494.9	16362.2
17.5°	15658.3	16185.3	16240.6	15967.9	15802.1
20°	15216.1	15816.8	15761.5	15385.6	15201.4
22.5°	14726.0	15411.4	15234.6	14840.2	14663.3
25°	14188.0	14947.1	14692.8	14416.4	14431.2
27.5°	13557.8	14420.1	14173.2	14298.5	14534.4
30°	12916.6	13867.3	13716.3	14445.9	14910.3
32.5°	12212.7	13299.8	13436.2	14877.1	15636.2
35°	11516.2	12732.3	13369.8	15592.0	16590.7
37.5°	10746.0	12157.4	13476.7	16417.5	17464.1
40°	9997.9	11597.3	13719.9	17158.2	18042.7
42.5°	9235.1	11096.1	14129.0	17596.8	18285.9
45°	8479.6	10668.6	14582.3	17655.7	18024.2
47.5°	7724.1	10307.5	14895.5	17187.7	17018.2
50°	6994.5	9986.8	14917.6	16063.7	15370.9
52.5°	6312.7	9692.0	14512.3	14272.7	13196.6
55°	5645.7	9345.6	13579.9	11906.8	10583.8
57.5°	5037.6	8866.6	12142.7	9364.1	7919.5
60°	4392.7	8218.0	10285.3	6850.8	5712.0
62.5°	3799.4	7410.9	8203.2	4768.6	4105.3
65°	3239.3	6474.9	6216.9	3456.7	2973.9
67.5°	2646.0	5505.7	4588.1	2520.7	2211.1
70°	2181.6	4606.5	3416.2	1960.5	1779.9
72.5°	1706.2	3751.5	2553.8	1592.0	1492.5
75°	1304.6	3029.2	1997.4	1367.2	1297.2
77.5°	961.8	2395.4	1606.7	1208.7	1142.4
80°	674.4	1886.8	1345.1	1079.8	1054.0
82.5°	453.3	1459.3	1146.1	1028.2	1031.9
85°	276.4	1079.8	1017.1	995.0	1006.1
87.5°	132.7	766.5	873.4	906.6	917.6
90°	3.7	390.6	670.7	766.5	784.9
92.5°	0.0	298.5	589.6	685.4	703.9
95°	7.4	228.5	534.4	626.5	644.9
97.5°	7.4	187.9	479.1	574.9	585.9
100°	11.1	162.1	427.5	519.6	530.7
102.5°	11.1	143.7	383.3	464.3	471.7
105°	14.7	129.0	346.4	416.4	423.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.1	88.4	243.2	294.8	302.2
115°	22.1	73.7	213.7	261.6	269.0
117.5°	25.8	66.3	187.9	232.2	235.9
120°	25.8	55.3	162.1	206.4	210.1
122.5°	25.8	44.2	143.7	184.3	187.9
125°	25.8	36.9	125.3	162.1	165.8
127.5°	22.1	25.8	106.9	143.7	147.4
130°	22.1	22.1	88.4	125.3	132.7
132.5°	22.1	22.1	73.7	110.6	117.9
135°	22.1	22.1	59.0	99.5	103.2
137.5°	22.1	22.1	47.9	84.8	92.1
140°	22.1	22.1	36.9	73.7	77.4
142.5°	25.8	22.1	33.2	62.6	66.3
145°	29.5	22.1	25.8	47.9	55.3
147.5°	29.5	25.8	25.8	40.5	44.2
150°	29.5	29.5	22.1	29.5	36.9
152.5°	29.5	29.5	22.1	22.1	29.5
155°	29.5	29.5	22.1	22.1	22.1
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°	18.4	114.2	309.6	372.2	379.6
110°	18.4	99.5	272.7	331.7	339.0



(END OF REPORT)