

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: P830589

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

Issue Date: 5/3/2024



**Test Information**

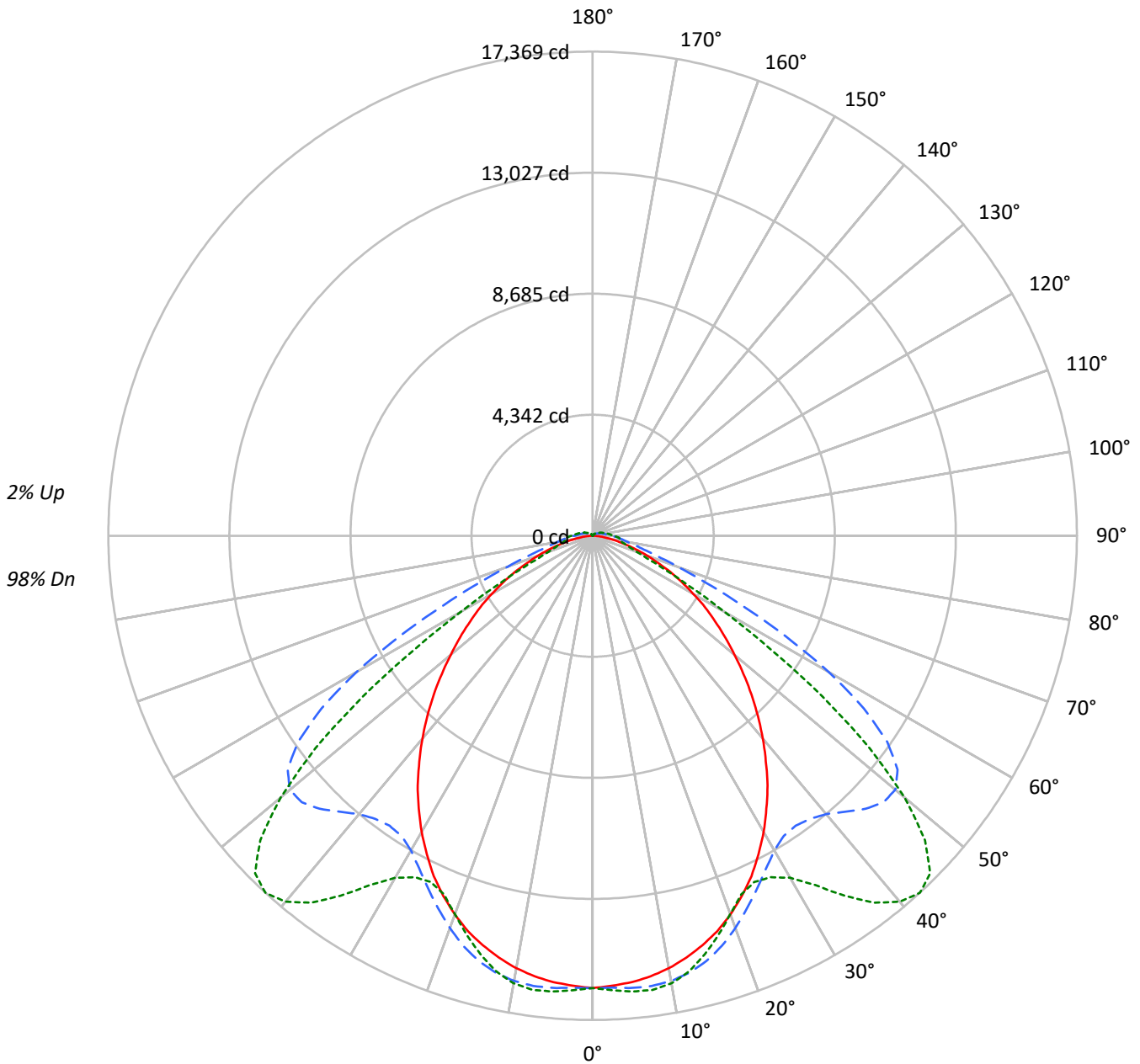
Test Method: LM-79-08  
Report Number: P830589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-W-UNV-L840-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48578.9 lumens  
Efficiency: N/A  
Efficacy: 168.2 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°	27711	27711	27711
5°	27453	27672	27891
10°	27108	27630	27788
15°	26580	27173	26765
20°	25856	26239	25323
25°	24886	25108	24682
30°	23597	24268	26407
35°	22125	24716	30708
40°	20419	26768	35253
45°	18634	30363	37594
50°	16772	33574	34663
55°	15023	33531	26195
60°	13242	28367	15797
65°	11361	19586	9400
70°	9231	12660	6623
75°	7022	9071	5921
80°	5041	7965	6283
85°	3421	8746	8738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1550.4	3.2
10°-20°	4390.4	9.0
20°-30°	6424.6	13.2
30°-40°	8343.6	17.2
40°-50°	10188.6	21.0
50°-60°	8972.7	18.5
60°-70°	4675.7	9.6
70°-80°	2005.1	4.1
80°-90°	962.9	2.0
90°-100°	452.4	0.9
100°-110°	281.2	0.6
110°-120°	166.2	0.3
120°-130°	90.4	0.2
130°-140°	45.3	0.1
140°-150°	21.8	0.0
150°-160°	7.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12365.3	25.5
0°-40°	20709.0	42.6
0°-60°	39870.2	82.1
0°-90°	47514.0	97.8
90°-120°	899.8	1.9
90°-150°	1057.3	2.2
90°-180°	1065.0	2.2
0°-180°	48578.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16224	16224	16224	16224	16224	
5°	16074	16196	16284	16428	16410	###
15°	15209	15636	15787	15668	15542	4283
25°	13477	14198	13956	13694	13708	6185
35°	10939	12094	12700	14810	15759	6818
45°	8054	10134	13851	16771	17121	6211
55°	5363	8877	12899	11310	10053	4813
65°	3077	6150	5905	3283	2825	3044
75°	1239	2877	1897	1299	1232	1351
85°	262	1026	966	945	956	293
90°	4	371	637	728	746	18
95°	7	217	508	595	613	5
105°	14	122	329	396	402	15
115°	21	70	203	248	256	22
125°	24	35	119	154	158	21
135°	21	21	56	94	98	16
145°	28	21	24	46	52	16
155°	28	28	21	21	21	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16224.5	16224.5	16224.5	16224.5	16224.5
2.5°	16154.5	16224.5	16228.0	16326.0	16315.5
5°	16074.0	16196.5	16284.0	16427.5	16410.0
7.5°	15941.0	16133.5	16287.5	16445.0	16431.0
10°	15751.9	16014.5	16217.5	16347.0	16305.0
12.5°	15506.9	15853.5	16053.0	16081.0	16000.5
15°	15209.4	15636.4	15786.9	15667.9	15541.9
17.5°	14873.3	15373.9	15426.4	15167.4	15009.8
20°	14453.3	15023.9	14971.3	14614.3	14439.3
22.5°	13987.7	14638.8	14470.8	14096.2	13928.2
25°	13476.7	14197.7	13956.2	13693.7	13707.7
27.5°	12878.1	13697.2	13462.7	13581.7	13805.7
30°	12269.0	13172.1	13028.6	13721.7	14162.7
32.5°	11600.4	12633.1	12762.6	14131.2	14852.3
35°	10938.8	12094.0	12699.6	14810.3	15758.9
37.5°	10207.3	11547.9	12801.1	15594.4	16588.5
40°	9496.7	11015.9	13032.1	16298.0	17138.1
42.5°	8772.1	10539.8	13420.7	16714.6	17369.1
45°	8054.5	10133.7	13851.2	16770.6	17120.6
47.5°	7336.9	9790.7	14148.7	16326.0	16165.0
50°	6643.8	9486.2	14169.7	15258.4	14600.3
52.5°	5996.2	9206.1	13784.7	13557.2	12535.0
55°	5362.7	8877.1	12899.1	11309.9	10053.2
57.5°	4785.1	8422.0	11533.9	8894.6	7522.4
60°	4172.5	7806.0	9769.7	6507.3	5425.7
62.5°	3608.9	7039.4	7792.0	4529.6	3899.5
65°	3076.9	6150.3	5905.2	3283.4	2824.8
67.5°	2513.3	5229.6	4358.0	2394.3	2100.3
70°	2072.3	4375.5	3244.9	1862.2	1690.7
72.5°	1620.7	3563.4	2425.8	1512.2	1417.7
75°	1239.2	2877.4	1897.2	1298.7	1232.2
77.5°	913.6	2275.3	1526.2	1148.1	1085.1
80°	640.6	1792.2	1277.7	1025.6	1001.1
82.5°	430.6	1386.2	1088.6	976.6	980.1
85°	262.5	1025.6	966.1	945.1	955.6
87.5°	126.0	728.1	829.6	861.1	871.6
90°	3.5	371.0	637.1	728.1	745.6
92.5°	0.0	283.5	560.1	651.1	668.6
95°	7.0	217.0	507.6	595.1	612.6
97.5°	7.0	178.5	455.1	546.1	556.6
100°	10.5	154.0	406.1	493.6	504.1
102.5°	10.5	136.5	364.0	441.1	448.1
105°	14.0	122.5	329.0	395.5	402.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.0	84.0	231.0	280.0	287.0
115°	21.0	70.0	203.0	248.5	255.5
117.5°	24.5	63.0	178.5	220.5	224.0
120°	24.5	52.5	154.0	196.0	199.5
122.5°	24.5	42.0	136.5	175.0	178.5
125°	24.5	35.0	119.0	154.0	157.5
127.5°	21.0	24.5	101.5	136.5	140.0
130°	21.0	21.0	84.0	119.0	126.0
132.5°	21.0	21.0	70.0	105.0	112.0
135°	21.0	21.0	56.0	94.5	98.0
137.5°	21.0	21.0	45.5	80.5	87.5
140°	21.0	21.0	35.0	70.0	73.5
142.5°	24.5	21.0	31.5	59.5	63.0
145°	28.0	21.0	24.5	45.5	52.5
147.5°	28.0	24.5	24.5	38.5	42.0
150°	28.0	28.0	21.0	28.0	35.0
152.5°	28.0	28.0	21.0	21.0	28.0
155°	28.0	28.0	21.0	21.0	21.0
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°	17.5	108.5	294.0	353.5	360.5
110°	17.5	94.5	259.0	315.0	322.0



(END OF REPORT)