

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: P830567

Luminaire Tested: **OHBL-48SE-N-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-N-UNV-L930-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

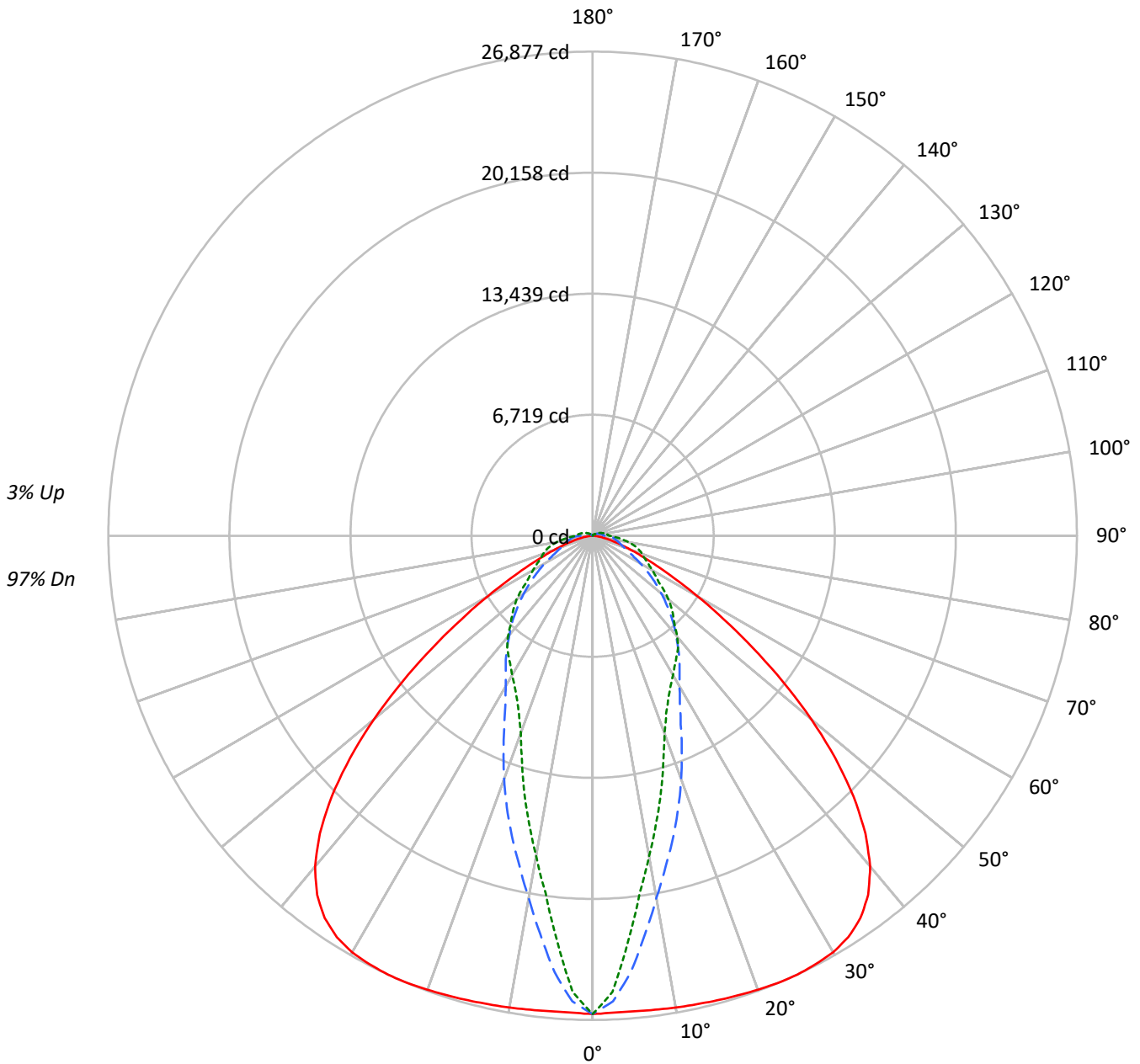
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39186.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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				20				
RC	80				70				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	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

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

	0°	45°	90°
0°	45348	45348	45348
5°	45256	41297	38396
10°	45767	34786	30788
15°	46660	29751	25270
20°	47971	25155	20439
25°	49630	20821	17909
30°	51346	17938	16637
35°	52414	16347	15850
40°	51517	14767	15038
45°	47394	13344	13922
50°	39986	11789	13067
55°	30383	10326	11628
60°	21292	8856	11132
65°	14322	7627	10898
70°	9781	7158	11433
75°	6788	7382	12216
80°	4672	8175	12576
85°	2733	10225	13193



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2235.0	5.7
10°-20°	5257.7	13.4
20°-30°	6590.5	16.8
30°-40°	6993.3	17.8
40°-50°	6323.0	16.1
50°-60°	4584.6	11.7
60°-70°	2877.1	7.3
70°-80°	1903.9	4.9
80°-90°	1096.9	2.8
90°-100°	531.4	1.4
100°-110°	366.8	0.9
110°-120°	226.3	0.6
120°-130°	109.6	0.3
130°-140°	50.4	0.1
140°-150°	27.5	0.1
150°-160°	12.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14083.2	35.9
0°-40°	21076.5	53.8
0°-60°	31984.1	81.6
0°-90°	37861.9	96.6
90°-120°	1124.5	2.9
90°-150°	1312.1	3.3
90°-180°	1324.0	3.4
0°-180°	39186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26551	26551	26551	26551	26551	
5°	26498	25818	24302	23175	22591	###
15°	26700	21762	17284	15371	14674	7572
25°	26877	16827	11573	10272	9946	12417
35°	25914	11187	8400	8137	8134	16109
45°	20486	7086	6087	6234	6340	15606
55°	10846	4392	3972	4308	4463	9799
65°	3879	2547	2300	2946	3275	4036
75°	1198	1372	1544	2398	2542	1335
85°	210	569	1130	1572	1443	251
90°	0	238	654	922	930	14
95°	10	167	576	783	819	9
105°	20	111	420	556	571	20
115°	28	78	283	354	361	27
125°	30	40	144	182	179	26
135°	25	30	63	99	99	20
145°	30	33	38	58	56	18
155°	30	38	40	43	38	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-N-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26550.6	26550.6	26550.6	26550.6	26550.6
2.5°	26495.0	26343.4	25870.9	25582.8	25340.2
5°	26497.5	25817.8	24301.6	23174.6	22590.9
7.5°	26535.4	25024.3	22292.7	20647.7	20005.8
10°	26593.6	24041.3	20417.7	18664.0	18065.1
12.5°	26636.5	22934.5	18767.6	16965.9	16308.9
15°	26699.7	21762.0	17284.3	15371.4	14674.0
17.5°	26757.8	20657.8	15818.7	13819.9	13044.1
20°	26815.9	19467.6	14353.0	12293.6	11654.3
22.5°	26871.5	18211.7	12922.8	11108.4	10671.3
25°	26876.6	16826.9	11573.4	10272.0	9946.1
27.5°	26810.9	15391.6	10479.2	9572.1	9369.9
30°	26697.2	13999.3	9630.2	9066.7	8922.6
32.5°	26414.1	12579.1	8973.2	8579.0	8495.6
35°	25913.8	11186.8	8399.6	8136.8	8134.2
37.5°	25125.4	9951.1	7777.9	7732.4	7788.0
40°	23960.5	8869.6	7189.2	7310.5	7310.5
42.5°	22406.4	7929.6	6656.0	6779.8	6746.9
45°	20485.9	7085.6	6087.4	6234.0	6340.1
47.5°	18259.7	6342.6	5506.2	5789.2	5935.8
50°	15838.9	5635.1	4975.6	5336.9	5503.7
52.5°	13301.8	4980.6	4457.5	4871.9	5005.9
55°	10845.6	4391.8	3972.4	4308.4	4462.6
57.5°	8621.9	3830.8	3497.3	3815.7	4134.1
60°	6709.0	3348.2	3050.0	3504.9	3823.3
62.5°	5124.6	2918.6	2630.5	3214.3	3532.7
65°	3878.9	2547.2	2299.5	2946.4	3274.9
67.5°	2923.7	2226.2	2041.8	2751.8	3072.8
70°	2195.9	1915.4	1834.6	2630.5	2918.6
72.5°	1622.3	1629.9	1670.3	2524.4	2744.3
75°	1197.8	1372.1	1544.0	2398.1	2542.1
77.5°	856.6	1137.1	1430.3	2246.5	2297.0
80°	593.8	927.4	1311.5	2046.8	2003.9
82.5°	371.5	742.9	1205.4	1827.0	1708.2
85°	209.7	568.6	1129.5	1571.8	1442.9
87.5°	93.5	424.5	988.0	1225.6	1144.7
90°	0.0	237.5	654.5	922.3	929.9
92.5°	5.1	197.1	603.9	844.0	869.3
95°	10.1	166.8	576.1	783.4	818.7
97.5°	12.6	146.6	540.8	727.8	758.1
100°	15.2	131.4	497.8	669.6	694.9
102.5°	17.7	121.3	457.4	609.0	629.2
105°	20.2	111.2	419.5	555.9	571.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25.3	85.9	315.9	399.3	411.9
115°	27.8	78.3	283.0	353.8	361.4
117.5°	30.3	68.2	247.6	310.8	313.3
120°	30.3	60.6	212.3	265.3	265.3
122.5°	30.3	50.5	176.9	219.8	217.3
125°	30.3	40.4	144.0	181.9	179.4
127.5°	27.8	32.9	116.2	151.6	149.1
130°	27.8	32.9	93.5	128.9	128.9
132.5°	25.3	30.3	75.8	111.2	111.2
135°	25.3	30.3	63.2	98.6	98.6
137.5°	25.3	32.9	53.1	85.9	85.9
140°	25.3	30.3	45.5	75.8	75.8
142.5°	27.8	30.3	40.4	65.7	65.7
145°	30.3	32.9	37.9	58.1	55.6
147.5°	30.3	35.4	37.9	50.5	48.0
150°	30.3	37.9	37.9	45.5	43.0
152.5°	30.3	37.9	37.9	43.0	40.4
155°	30.3	37.9	40.4	43.0	37.9
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°	20.2	103.6	384.1	497.8	515.5
110°	22.7	93.5	351.2	444.7	462.4



(END OF REPORT)