

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: P830869

Luminaire Tested: **OHBL-90SE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-90SE-NL-UNV-L940-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

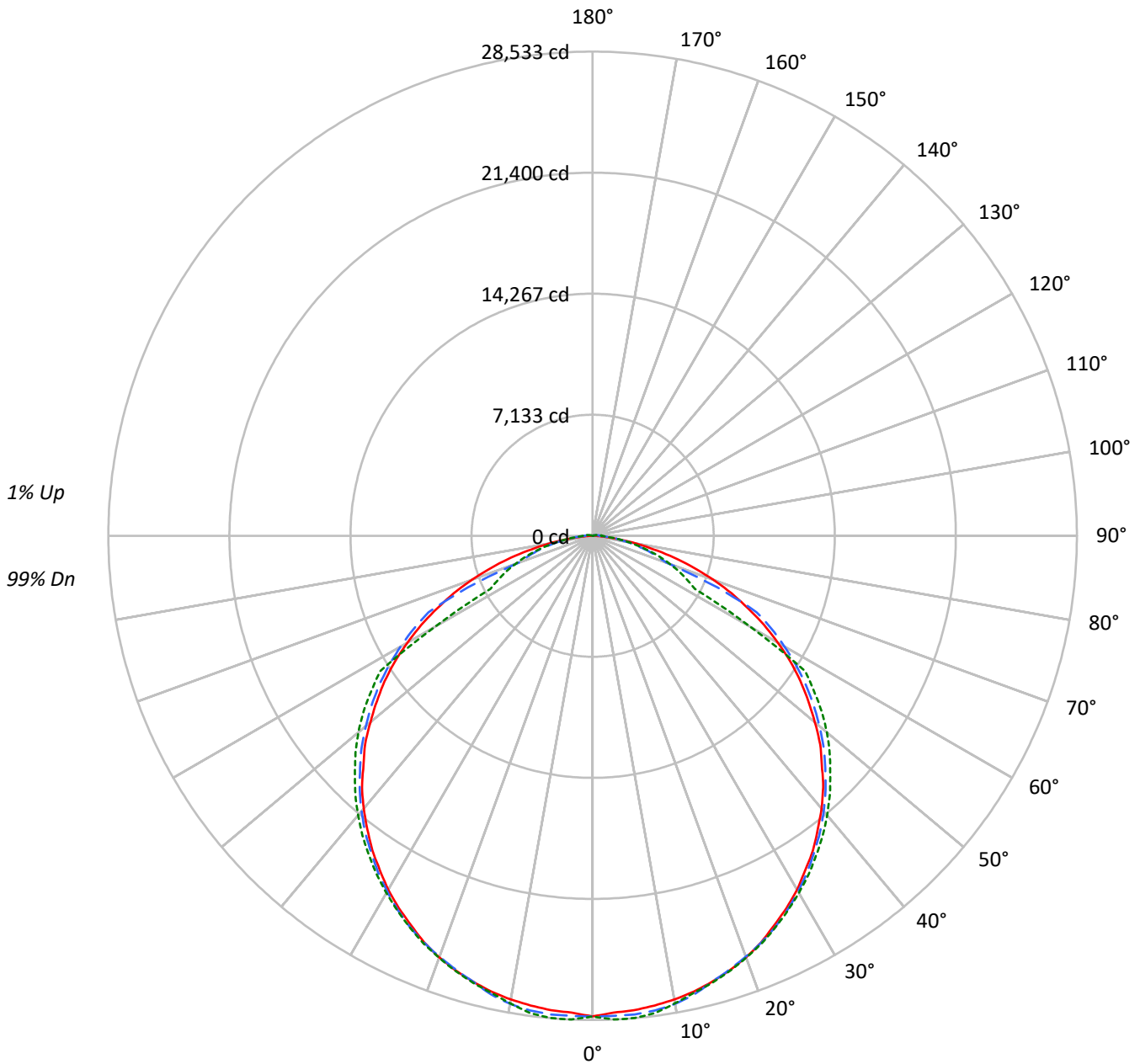
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 79524.0 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 529  
Input Voltage (V): NR  
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

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

	0°	45°	90°
0°	44794	44794	44794
5°	44547	44950	45289
10°	44559	44983	44927
15°	44552	44544	44641
20°	44491	44424	44532
25°	44187	44412	44447
30°	43982	44209	44382
35°	43697	43937	44349
40°	43320	43730	44377
45°	42695	43340	44285
50°	42052	42909	44326
55°	41247	42316	43838
60°	39866	41280	34129
65°	37717	39911	22969
70°	34885	21187	22292
75°	30429	20134	21288
80°	23400	18469	19509
85°	11811	18666	19114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2690.9	3.4
10°-20°	7704.9	9.7
20°-30°	11723.6	14.7
30°-40°	14254.2	17.9
40°-50°	14987.6	18.8
50°-60°	13685.5	17.2
60°-70°	8773.1	11.0
70°-80°	4144.3	5.2
80°-90°	1149.2	1.4
90°-100°	304.3	0.4
100°-110°	83.3	0.1
110°-120°	23.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22119.3	27.8
0°-40°	36373.6	45.7
0°-60°	65046.7	81.8
0°-90°	79113.2	99.5
90°-120°	410.8	0.5
90°-150°	410.8	0.5
90°-180°	411.0	0.5
0°-180°	79524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28324	28324	28324	28324	28324	
5°	28061	28170	28314	28469	28528	###
15°	27211	27415	27206	27246	27266	7682
25°	25322	25362	25451	25491	25471	11685
35°	22634	22500	22758	23036	22971	14145
45°	19090	19055	19378	19835	19801	14755
55°	14960	14846	15347	15859	15899	13341
65°	10079	10079	10665	6118	6138	9993
75°	4980	5075	3295	3469	3484	5250
85°	651	825	1029	1113	1053	962
90°	0	278	457	542	532	29
95°	15	144	328	442	442	8
105°	25	55	80	80	75	25
115°	25	35	50	35	5	18
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	28324.4	28324.4	28324.4	28324.4	28324.4
2.5°	28125.5	28220.2	28324.4	28458.6	28532.8
5°	28060.8	28170.2	28314.4	28468.6	28528.0
7.5°	27921.9	28075.5	28215.0	28324.4	28359.1
10°	27747.7	27931.9	28011.3	28001.3	27976.6
12.5°	27514.1	27708.2	27683.5	27568.8	27588.8
15°	27211.0	27414.6	27206.2	27245.7	27265.7
17.5°	26853.2	27052.1	26808.4	26887.9	26893.2
20°	26435.9	26584.8	26395.9	26460.6	26460.6
22.5°	25933.9	26038.1	25958.6	26003.4	26013.4
25°	25322.5	25361.9	25451.4	25491.4	25471.4
27.5°	24736.3	24686.3	24860.5	24954.7	24904.7
30°	24084.9	24005.4	24209.1	24363.2	24303.8
32.5°	23339.3	23289.8	23523.4	23707.1	23672.3
35°	22633.6	22499.5	22757.8	23036.2	22971.4
37.5°	21798.6	21719.1	22012.2	22305.8	22271.1
40°	20983.5	20849.3	21182.4	21530.2	21495.5
42.5°	20109.0	19949.5	20312.6	20730.4	20690.4
45°	19089.7	19055.0	19378.1	19835.3	19800.6
47.5°	18185.7	18011.6	18463.6	18906.1	18946.1
50°	17091.8	17027.6	17440.1	17976.8	18016.3
52.5°	16023.6	15978.9	16410.9	16952.9	17022.3
55°	14959.6	14845.5	15347.4	15859.4	15899.4
57.5°	13822.0	13702.6	14214.6	14771.3	14855.5
60°	12603.9	12489.7	13051.1	13568.4	10790.1
62.5°	11386.3	11306.8	11893.5	8424.3	6789.5
65°	10079.2	10079.2	10665.4	6118.0	6138.0
67.5°	8856.9	8777.4	7952.3	5496.6	5496.6
70°	7544.5	7574.5	4582.1	4816.2	4821.0
72.5°	6227.5	6336.9	3956.4	4144.8	4154.8
75°	4979.9	5074.6	3295.0	3469.2	3483.9
77.5°	3658.1	2813.0	2648.9	2783.6	2788.3
80°	2569.4	1774.3	2027.9	2156.9	2142.1
82.5°	1500.7	1242.3	1486.0	1580.7	1575.4
85°	650.9	825.1	1028.7	1113.4	1053.4
87.5°	208.4	512.0	640.9	690.9	685.6
90°	0.0	278.4	457.3	541.5	532.0
92.5°	0.0	218.4	397.8	497.3	502.0
95°	14.7	144.2	328.3	442.5	442.5
97.5°	10.0	104.2	233.6	347.8	357.8
100°	10.0	84.2	154.2	248.4	253.6
102.5°	24.7	69.5	94.2	158.9	164.2
105°	24.7	54.7	79.5	79.5	74.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.0	40.0	54.7	40.0	4.7
115°	24.7	34.7	49.5	34.7	4.7
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	24.7	49.5	69.5	44.7	14.7
110°	30.0	44.7	59.5	40.0	4.7



(END OF REPORT)