

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: P830826

Luminaire Tested: **OHBL-90SE-MCL-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830826  
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-90SE-MCL-UNV-L750-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

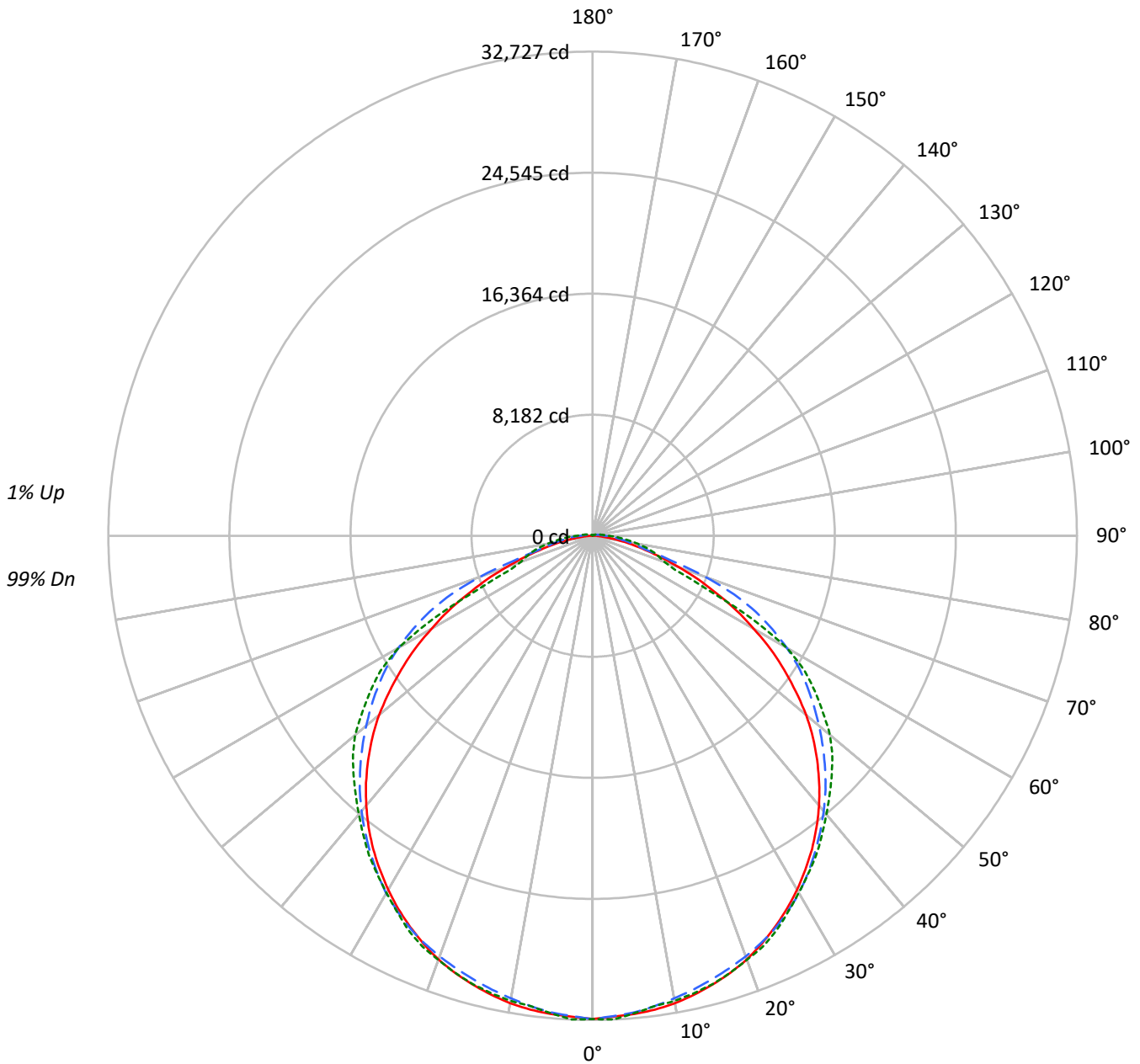
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 92315.0 lumens  
Efficiency: N/A  
Efficacy: 174.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 529  
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

TEST NUMBER: P830826  
CATALOG NUMBER: OHBL-90SE-MCL-UNV-L750-CD

### 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°	51653	51653	51653
5°	51315	50902	51009
10°	51127	50132	50443
15°	50803	49555	50105
20°	50478	49192	49662
25°	49869	48826	49222
30°	49206	48249	48291
35°	48414	47334	47777
40°	47385	46389	47078
45°	45958	45296	46769
50°	44024	44051	46398
55°	40951	42826	44666
60°	36928	41034	41294
65°	31678	37707	26170
70°	25515	29436	18974
75°	19130	17474	19257
80°	13315	14529	18386
85°	7578	13313	17234



TEST NUMBER: P830826

CATALOG NUMBER: OHBL-90SE-MCL-UNV-L750-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3079.6	3.3
10°-20°	8831.0	9.6
20°-30°	13487.7	14.6
30°-40°	16365.2	17.7
40°-50°	17152.2	18.6
50°-60°	15542.5	16.8
60°-70°	10420.6	11.3
70°-80°	4679.3	5.1
80°-90°	1698.1	1.8
90°-100°	511.1	0.6
100°-110°	241.2	0.3
110°-120°	120.9	0.1
120°-130°	66.7	0.1
130°-140°	45.8	0.0
140°-150°	30.8	0.0
150°-160°	22.9	0.0
160°-170°	14.7	0.0
170°-180°	4.7	0.0
0°-30°	25398.3	27.5
0°-40°	41763.4	45.2
0°-60°	74458.2	80.7
0°-90°	91256.2	98.9
90°-120°	873.2	0.9
90°-150°	1016.5	1.1
90°-180°	1059.0	1.1
0°-180°	92315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32661	32661	32661	32661	32661	
5°	32449	32562	32335	32434	32392	###
15°	31396	31273	31051	31325	31362	8864
25°	29166	29039	29242	29511	29426	13444
35°	25851	25913	26177	26456	26352	16158
45°	21454	21804	22210	22777	22848	16527
55°	15788	16548	17676	18385	18342	14092
65°	9266	10716	12165	10267	8382	9232
75°	3646	5289	3891	3981	4241	3984
85°	628	1204	1544	1865	1955	766
90°	5	401	798	1001	1048	38
95°	5	250	548	666	685	6
105°	19	109	269	326	340	22
115°	38	57	137	175	184	35
125°	33	38	85	99	104	33
135°	42	47	52	76	80	34
145°	42	47	47	52	57	28
155°	47	52	52	52	47	22
165°	52	52	52	52	52	15
175°	52	52	47	42	42	5
180°	47	47	47	47	47	



TEST NUMBER: P830826

CATALOG NUMBER: OHBL-90SE-MCL-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32661.1	32661.1	32661.1	32661.1	32661.1
2.5°	32528.9	32665.8	32495.8	32680.0	32727.2
5°	32448.6	32562.0	32335.3	32434.4	32391.9
7.5°	32302.2	32340.0	32070.8	32151.1	32066.1
10°	32085.0	32066.1	31749.7	31905.5	31924.4
12.5°	31763.8	31707.2	31423.8	31659.9	31664.7
15°	31395.5	31272.7	31050.7	31324.6	31362.4
17.5°	30970.5	30809.9	30663.5	31017.7	30961.0
20°	30474.6	30285.7	30257.3	30644.6	30502.9
22.5°	29860.7	29714.3	29780.4	30148.7	30059.0
25°	29166.4	29038.9	29242.0	29511.2	29426.2
27.5°	28434.4	28358.9	28590.3	28798.1	28632.8
30°	27631.6	27589.1	27896.1	28066.1	27858.3
32.5°	26757.9	26772.1	27064.9	27296.3	27102.7
35°	25851.2	25912.6	26177.1	26455.7	26351.8
37.5°	24854.8	24991.7	25256.2	25572.6	25464.0
40°	23801.6	24000.0	24292.8	24675.3	24576.1
42.5°	22663.5	22913.8	23291.6	23716.6	23707.2
45°	21454.5	21804.0	22210.1	22776.8	22847.7
47.5°	20198.3	20590.3	21105.1	21860.7	21969.3
50°	18833.5	19324.7	19966.9	20873.7	20939.8
52.5°	17312.9	17983.5	18833.5	19702.5	19622.2
55°	15787.5	16547.8	17676.5	18384.9	18342.4
57.5°	14266.8	15121.6	16491.1	16996.4	16991.7
60°	12566.7	13648.2	15145.2	15527.7	15149.9
62.5°	10994.1	12155.8	13709.5	13430.9	12136.9
65°	9265.6	10715.5	12165.3	10266.8	8382.5
67.5°	7730.8	9242.0	10332.9	7031.9	6021.2
70°	6186.5	7853.6	8056.7	5218.4	5147.6
72.5°	4817.0	6592.7	5558.4	4467.5	4694.2
75°	3645.8	5289.3	3891.4	3981.1	4240.8
77.5°	2658.8	4061.4	3027.2	3490.0	3702.5
80°	1827.6	2876.0	2469.9	2932.7	3079.1
82.5°	1147.6	1898.5	1978.7	2361.3	2512.4
85°	628.1	1204.2	1544.3	1865.4	1955.1
87.5°	259.7	727.3	1180.6	1440.4	1515.9
90°	4.7	401.4	798.1	1001.2	1048.4
92.5°	4.7	307.0	651.7	807.6	840.6
95°	4.7	250.3	547.8	665.9	684.8
97.5°	9.4	198.3	458.1	552.5	571.4
100°	14.2	165.3	382.5	462.8	477.0
102.5°	18.9	132.2	321.1	387.2	401.4
105°	18.9	108.6	269.2	325.9	340.0



TEST NUMBER: P830826

CATALOG NUMBER: OHBL-90SE-MCL-UNV-L750-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	33.1	66.1	160.6	203.1	212.5
115°	37.8	56.7	137.0	174.7	184.2
117.5°	37.8	47.2	118.1	146.4	155.8
120°	37.8	42.5	103.9	127.5	132.2
122.5°	37.8	37.8	89.7	113.3	118.1
125°	33.1	37.8	85.0	99.2	103.9
127.5°	37.8	37.8	75.6	89.7	94.5
130°	37.8	42.5	66.1	85.0	85.0
132.5°	42.5	47.2	61.4	80.3	80.3
135°	42.5	47.2	51.9	75.6	80.3
137.5°	47.2	47.2	47.2	70.8	75.6
140°	47.2	47.2	42.5	61.4	66.1
142.5°	42.5	47.2	42.5	56.7	61.4
145°	42.5	47.2	47.2	51.9	56.7
147.5°	47.2	47.2	47.2	47.2	51.9
150°	47.2	47.2	47.2	47.2	47.2
152.5°	47.2	47.2	47.2	47.2	47.2
155°	47.2	51.9	51.9	51.9	47.2
157.5°	47.2	51.9	51.9	51.9	51.9
160°	47.2	51.9	51.9	51.9	51.9
162.5°	51.9	51.9	51.9	51.9	51.9
165°	51.9	51.9	51.9	51.9	51.9
167.5°	51.9	56.7	51.9	51.9	51.9
170°	51.9	51.9	51.9	47.2	47.2
172.5°	51.9	51.9	51.9	47.2	47.2
175°	51.9	51.9	47.2	42.5	42.5
177.5°	56.7	51.9	47.2	42.5	37.8
180°	47.2	47.2	47.2	47.2	47.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	23.6	89.7	231.4	278.6	288.1
110°	28.3	75.6	193.6	236.1	245.6



(END OF REPORT)