

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: P830863

Luminaire Tested: **OHBL-90SE-NL-UNV-L830-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830863  
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-L830-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

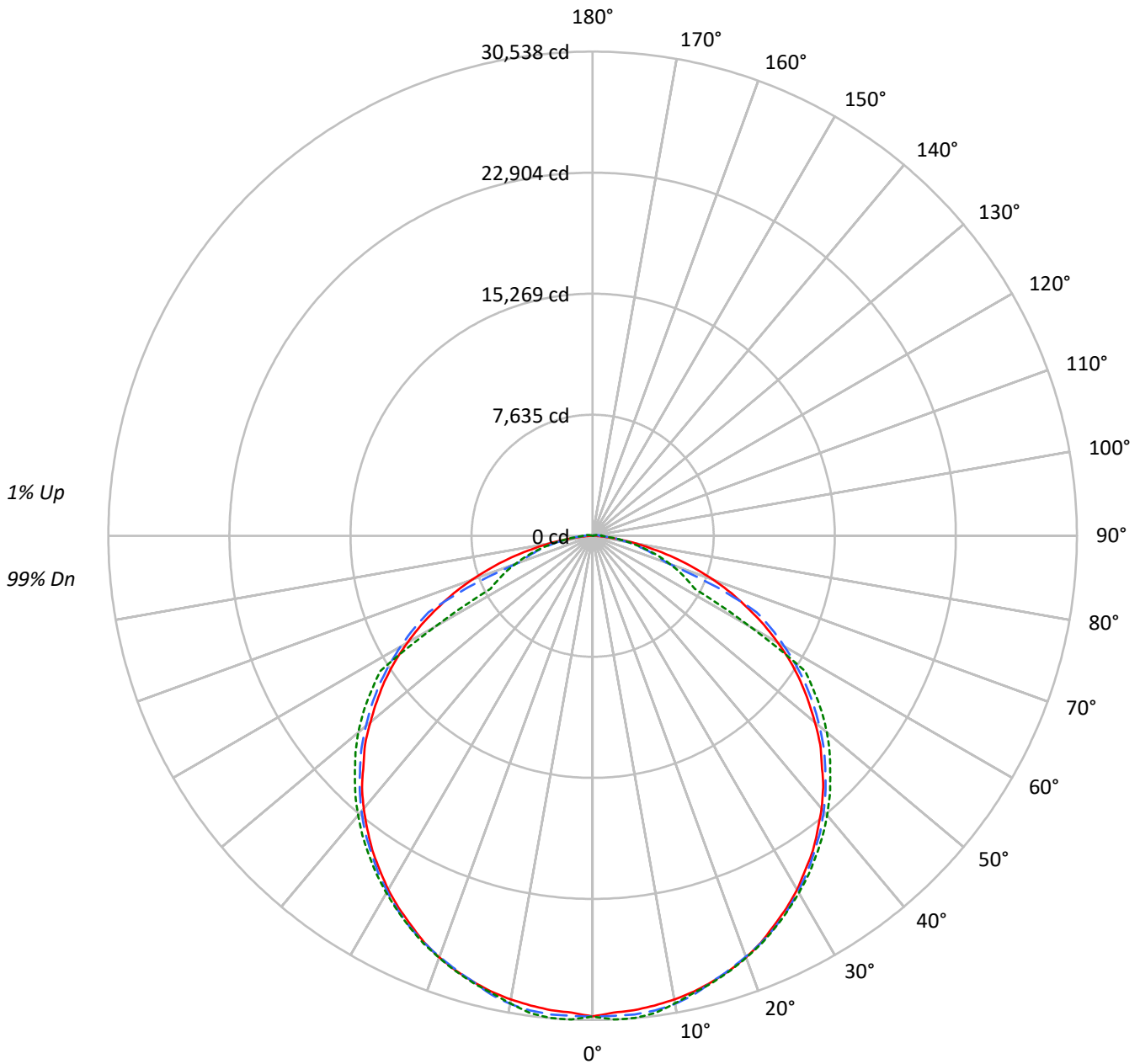
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 85113.0 lumens  
Efficiency: N/A  
Efficacy: 160.9 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°	47943	47943	47943
5°	47678	48109	48472
10°	47691	48144	48084
15°	47683	47674	47779
20°	47618	47546	47662
25°	47292	47533	47570
30°	47073	47316	47501
35°	46768	47025	47466
40°	46364	46804	47496
45°	45696	46386	47397
50°	45007	45924	47441
55°	44146	45290	46919
60°	42667	44181	36527
65°	40368	42716	24583
70°	37337	22676	23859
75°	32568	21549	22784
80°	25045	19768	20880
85°	12640	19978	20459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2880.0	3.4
10°-20°	8246.4	9.7
20°-30°	12547.5	14.7
30°-40°	15256.0	17.9
40°-50°	16041.0	18.8
50°-60°	14647.3	17.2
60°-70°	9389.7	11.0
70°-80°	4435.5	5.2
80°-90°	1229.9	1.4
90°-100°	325.7	0.4
100°-110°	89.2	0.1
110°-120°	24.7	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°	23673.9	27.8
0°-40°	38929.9	45.7
0°-60°	69618.2	81.8
0°-90°	84673.4	99.5
90°-120°	439.6	0.5
90°-150°	439.6	0.5
90°-180°	440.0	0.5
0°-180°	85113.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30315	30315	30315	30315	30315	
5°	30033	30150	30304	30469	30533	###
15°	29123	29341	29118	29161	29182	8222
25°	27102	27144	27240	27283	27262	12506
35°	24224	24081	24357	24655	24586	15139
45°	20431	20394	20740	21229	21192	15792
55°	16011	15889	16426	16974	17017	14279
65°	10788	10788	11415	6548	6569	10695
75°	5330	5431	3527	3713	3729	5619
85°	697	883	1101	1192	1128	1030
90°	0	298	489	580	569	31
95°	16	154	351	474	474	9
105°	26	59	85	85	80	27
115°	26	37	53	37	5	19
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°	30315.1	30315.1	30315.1	30315.1	<i>30315.1</i>
2.5°	<i>30102.2</i>	<i>30203.6</i>	<i>30315.1</i>	<i>30458.7</i>	<i>30538.1</i>
5°	30032.9	30150.0	30304.4	30469.4	<i>30533.0</i>
7.5°	29884.2	30048.7	30197.9	30315.1	<i>30352.2</i>
10°	29697.8	29894.9	29980.0	29969.3	<i>29942.8</i>
12.5°	29447.8	29655.6	29629.1	29506.3	<i>29527.7</i>
15°	29123.4	29341.3	29118.3	29160.6	<i>29182.0</i>
17.5°	28740.4	28953.3	28692.6	28777.6	<i>28783.2</i>
20°	28293.8	28453.2	28251.0	28320.3	<i>28320.3</i>
22.5°	27756.6	27868.1	27783.0	27830.9	<i>27841.6</i>
25°	27102.2	27144.4	27240.1	27282.9	<i>27261.5</i>
27.5°	26474.8	26421.3	26607.7	26708.5	<i>26655.0</i>
30°	25777.6	25692.5	25910.5	26075.5	<i>26011.9</i>
32.5°	24979.6	24926.6	25176.7	25373.2	<i>25336.0</i>
35°	24224.3	24080.7	24357.2	24655.2	<i>24585.9</i>
37.5°	23330.6	23245.5	23559.2	23873.5	<i>23836.3</i>
40°	22458.2	22314.6	22671.1	23043.4	<i>23006.2</i>
42.5°	21522.2	21351.6	21740.2	22187.3	<i>22144.5</i>
45°	20431.4	20394.2	20740.0	21229.4	<i>21192.2</i>
47.5°	19463.8	19277.4	19761.2	20234.8	<i>20277.6</i>
50°	18293.0	18224.3	18665.8	19240.3	<i>19282.5</i>
52.5°	17149.8	17101.9	17564.3	18144.3	<i>18218.7</i>
55°	16011.0	15888.8	16426.1	16974.0	<i>17016.8</i>
57.5°	14793.4	14665.6	15213.6	15809.4	<i>15899.5</i>
60°	13489.7	13367.5	13968.4	14522.0	<i>11548.4</i>
62.5°	12186.5	12101.5	12729.4	9016.4	<i>7266.6</i>
65°	10787.6	10787.6	11415.0	6548.0	<i>6569.4</i>
67.5°	9479.3	9394.3	8511.2	5882.9	<i>5882.9</i>
70°	8074.8	8106.9	4904.1	5154.7	<i>5159.8</i>
72.5°	6665.2	6782.3	4234.5	4436.1	<i>4446.8</i>
75°	5329.9	5431.2	3526.6	3713.0	<i>3728.8</i>
77.5°	3915.2	3010.7	2835.0	2979.2	<i>2984.3</i>
80°	2750.0	1899.0	2170.5	2308.4	<i>2292.7</i>
82.5°	1606.2	1329.7	1590.4	1691.8	<i>1686.1</i>
85°	696.6	883.1	1101.0	1191.7	<i>1127.5</i>
87.5°	223.0	548.0	685.9	739.4	<i>733.8</i>
90°	0.0	297.9	489.4	579.5	<i>569.4</i>
92.5°	0.0	233.7	425.8	532.2	<i>537.3</i>
95°	15.8	154.3	351.4	473.6	<i>473.6</i>
97.5°	10.7	111.5	250.0	372.3	<i>383.0</i>
100°	10.7	90.1	165.0	265.8	<i>271.4</i>
102.5°	26.5	74.3	100.8	170.1	<i>175.7</i>
105°	26.5	58.6	85.0	85.0	<i>80.0</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.1	42.8	58.6	42.8	5.1
115°	26.5	37.2	52.9	37.2	5.1
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°	26.5	52.9	74.3	47.9	15.8
110°	32.1	47.9	63.6	42.8	5.1



(END OF REPORT)