

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: P830864

Luminaire Tested: **OHBL-90SE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830864
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-L835-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

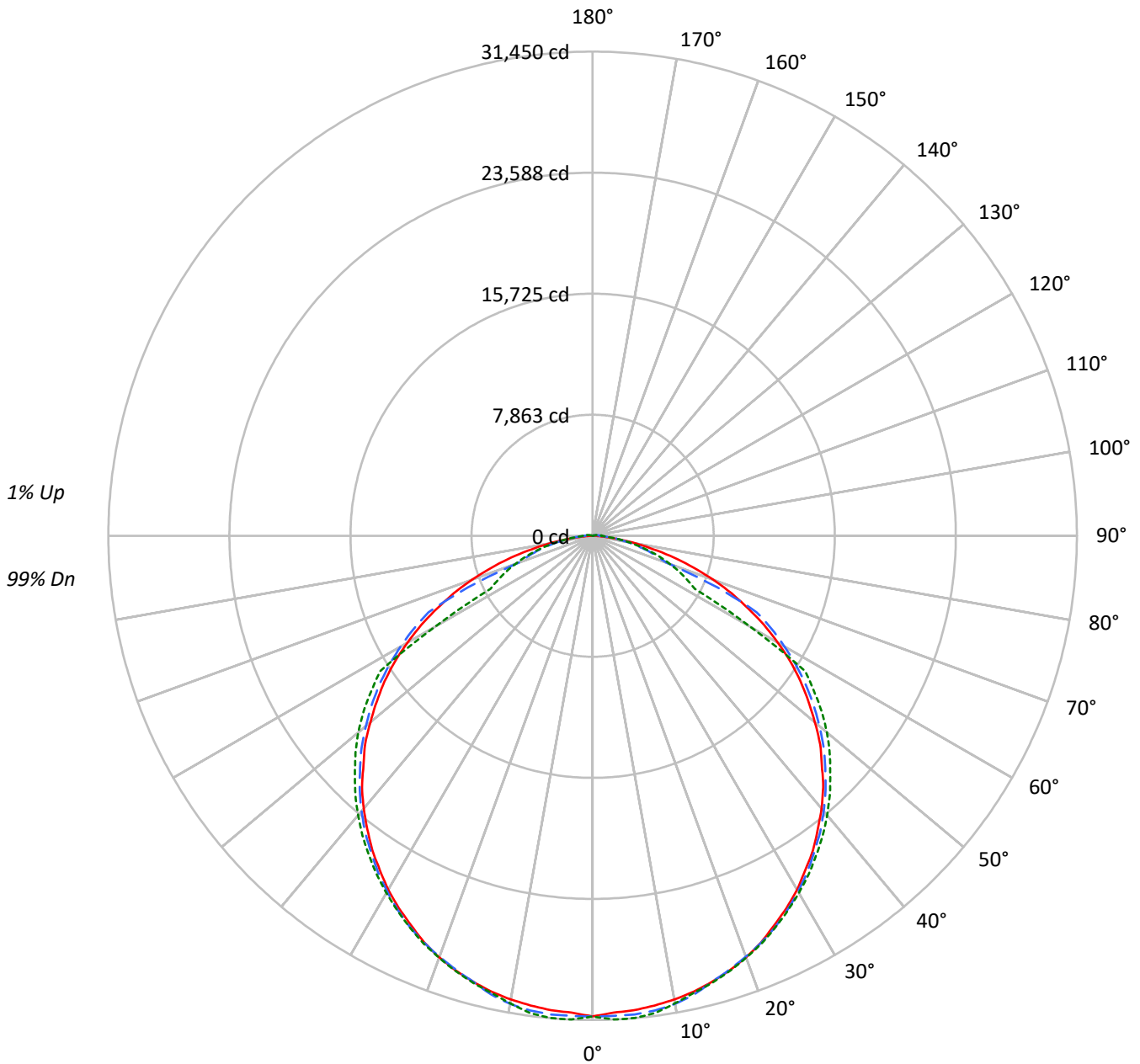
Lumens per Lamp: N/A
Luminaire Lumens: 87654.0 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P830864

CATALOG NUMBER: OHBL-90SE-NL-UNV-L835-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	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°	49374	49374	49374
5°	49101	49545	49919
10°	49115	49581	49520
15°	49106	49098	49205
20°	49039	48965	49085
25°	48704	48952	48991
30°	48478	48728	48919
35°	48164	48429	48883
40°	47748	48201	48913
45°	47060	47771	48812
50°	46351	47295	48858
55°	45464	46642	48320
60°	43941	45500	37618
65°	41573	43991	25317
70°	38452	23353	24571
75°	33540	22192	23464
80°	25793	20358	21503
85°	13018	20575	21069



TEST NUMBER: P830864

CATALOG NUMBER: OHBL-90SE-NL-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2966.0	3.4
10°-20°	8492.5	9.7
20°-30°	12922.1	14.7
30°-40°	15711.5	17.9
40°-50°	16519.9	18.8
50°-60°	15084.6	17.2
60°-70°	9670.0	11.0
70°-80°	4568.0	5.2
80°-90°	1266.7	1.4
90°-100°	335.5	0.4
100°-110°	91.9	0.1
110°-120°	25.4	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°	24380.7	27.8
0°-40°	40092.2	45.7
0°-60°	71696.6	81.8
0°-90°	87201.2	99.5
90°-120°	452.8	0.5
90°-150°	452.8	0.5
90°-180°	453.0	0.5
0°-180°	87654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31220	31220	31220	31220	31220	
5°	30930	31050	31209	31379	31445	###
15°	29993	30217	29988	30031	30053	8467
25°	27911	27955	28053	28098	28075	12879
35°	24948	24800	25084	25391	25320	15591
45°	21041	21003	21359	21863	21825	16264
55°	16489	16363	16916	17481	17525	14705
65°	11110	11110	11756	6744	6766	11014
75°	5489	5593	3632	3824	3840	5786
85°	717	909	1134	1227	1161	1060
90°	0	307	504	597	586	31
95°	16	159	362	488	488	9
105°	27	60	88	88	82	27
115°	27	38	54	38	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



TEST NUMBER: P830864

CATALOG NUMBER: OHBL-90SE-NL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31220.1	31220.1	31220.1	31220.1	<i>31220.1</i>
2.5°	<i>31000.9</i>	<i>31105.3</i>	<i>31220.1</i>	<i>31368.0</i>	<i>31449.8</i>
5°	30929.5	31050.2	31209.1	31379.0	<i>31444.6</i>
7.5°	30776.4	30945.8	31099.5	31220.1	<i>31258.4</i>
10°	30584.4	30787.4	30875.0	30864.0	<i>30836.7</i>
12.5°	30326.9	30540.9	30513.7	30387.2	<i>30409.3</i>
15°	29992.8	30217.3	29987.6	30031.1	<i>30053.2</i>
17.5°	29598.5	29817.7	29549.2	29636.7	<i>29642.5</i>
20°	29138.5	29302.7	29094.4	29165.8	<i>29165.8</i>
22.5°	28585.2	28700.1	28612.5	28661.8	<i>28672.8</i>
25°	27911.3	27954.8	28053.4	28097.5	<i>28075.4</i>
27.5°	27265.2	27210.1	27402.0	27505.9	<i>27450.8</i>
30°	26547.1	26459.6	26684.0	26854.0	<i>26788.4</i>
32.5°	25725.3	25670.8	25928.3	26130.7	<i>26092.4</i>
35°	24947.5	24799.6	25084.4	25391.2	<i>25319.9</i>
37.5°	24027.1	23939.5	24262.6	24586.2	<i>24547.9</i>
40°	23128.7	22980.8	23347.9	23731.3	<i>23693.0</i>
42.5°	22164.8	21989.0	22389.2	22849.7	<i>22805.7</i>
45°	21041.3	21003.1	21359.2	21863.2	<i>21824.9</i>
47.5°	20044.9	19852.9	20351.1	20838.9	<i>20883.0</i>
50°	18839.1	18768.4	19223.1	19814.7	<i>19858.2</i>
52.5°	17661.8	17612.5	18088.6	18686.0	<i>18762.6</i>
55°	16489.0	16363.2	16916.5	17480.8	<i>17524.9</i>
57.5°	15235.1	15103.4	15667.8	16281.4	<i>16374.2</i>
60°	13892.4	13766.6	14385.4	14955.5	<i>11893.2</i>
62.5°	12550.3	12462.8	13109.4	9285.6	<i>7483.6</i>
65°	11109.6	11109.6	11755.7	6743.5	<i>6765.5</i>
67.5°	9762.3	9674.8	8765.3	6058.5	<i>6058.5</i>
70°	8315.8	8348.9	5050.5	5308.6	<i>5313.8</i>
72.5°	6864.1	6984.8	4360.9	4568.6	<i>4579.6</i>
75°	5489.0	5593.4	3631.9	3823.9	<i>3840.1</i>
77.5°	4032.1	3100.6	2919.7	3068.1	<i>3073.3</i>
80°	2832.1	1955.7	2235.3	2377.4	<i>2361.1</i>
82.5°	1654.1	1369.3	1637.9	1742.3	<i>1736.5</i>
85°	717.4	909.4	1133.9	1227.3	<i>1161.1</i>
87.5°	229.7	564.3	706.4	761.5	<i>755.7</i>
90°	0.0	306.8	504.0	596.8	<i>586.4</i>
92.5°	0.0	240.7	438.5	548.1	<i>553.3</i>
95°	16.2	158.9	361.9	487.8	<i>487.8</i>
97.5°	11.0	114.8	257.5	383.4	<i>394.4</i>
100°	11.0	92.8	169.9	273.8	<i>279.6</i>
102.5°	27.3	76.6	103.8	175.2	<i>181.0</i>
105°	27.3	60.3	87.6	87.6	<i>82.4</i>



TEST NUMBER: P830864

CATALOG NUMBER: OHBL-90SE-NL-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.1	44.1	60.3	44.1	5.2
115°	27.3	38.3	54.5	38.3	5.2
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°	27.3	54.5	76.6	49.3	16.2
110°	33.1	49.3	65.5	44.1	5.2



(END OF REPORT)