

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: P830818

Luminaire Tested: **OHBL-90SE-A-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830818
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-A-UNV-L850-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

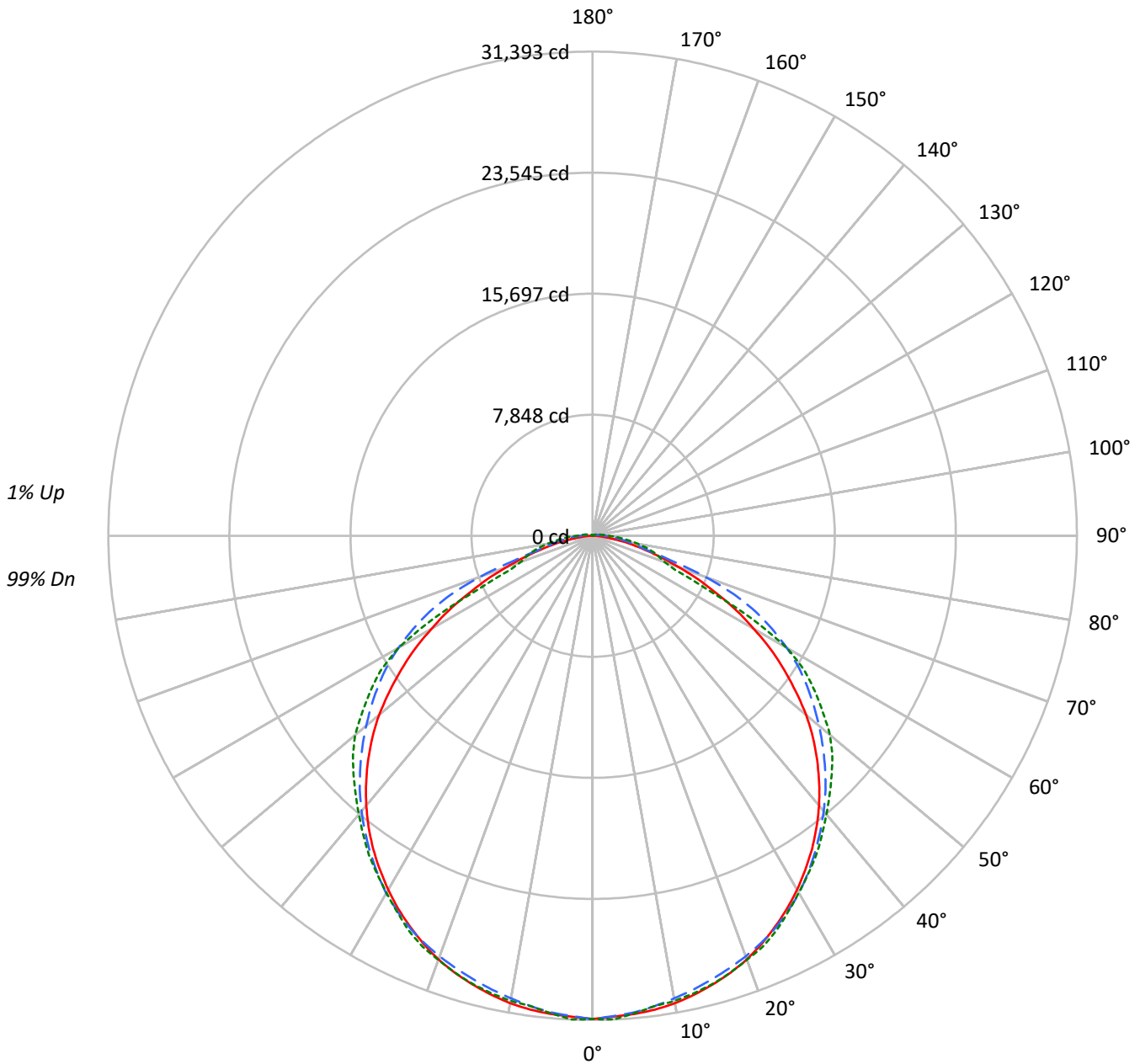
Lumens per Lamp: N/A
Luminaire Lumens: 88551.0 lumens
Efficiency: N/A
Efficacy: 167.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 529
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	49547	49547	49547
5°	49223	48827	48930
10°	49042	48087	48386
15°	48731	47534	48062
20°	48420	47186	47637
25°	47836	46835	47215
30°	47200	46282	46322
35°	46440	45404	45829
40°	45453	44498	45159
45°	44084	43449	44862
50°	42229	42255	44506
55°	39282	41080	42845
60°	35422	39361	39611
65°	30386	36170	25103
70°	24475	28236	18200
75°	18350	16762	18472
80°	12773	13937	17636
85°	7269	12770	16531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2954.1	3.3
10°-20°	8470.9	9.6
20°-30°	12937.7	14.6
30°-40°	15697.9	17.7
40°-50°	16452.9	18.6
50°-60°	14908.8	16.8
60°-70°	9995.8	11.3
70°-80°	4488.5	5.1
80°-90°	1628.8	1.8
90°-100°	490.3	0.6
100°-110°	231.3	0.3
110°-120°	115.9	0.1
120°-130°	64.0	0.1
130°-140°	44.0	0.0
140°-150°	29.6	0.0
150°-160°	22.0	0.0
160°-170°	14.1	0.0
170°-180°	4.5	0.0
0°-30°	24362.7	27.5
0°-40°	40060.6	45.2
0°-60°	71422.2	80.7
0°-90°	87535.3	98.9
90°-120°	837.5	0.9
90°-150°	975.0	1.1
90°-180°	1016.0	1.1
0°-180°	88551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31329	31329	31329	31329	31329	
5°	31126	31234	31017	31112	31071	###
15°	30115	29998	29785	30047	30084	8503
25°	27977	27855	28050	28308	28226	12896
35°	24797	24856	25110	25377	25277	15499
45°	20580	20915	21304	21848	21916	15854
55°	15144	15873	16956	17635	17594	13518
65°	8888	10278	11669	9848	8041	8856
75°	3497	5074	3733	3819	4068	3822
85°	602	1155	1481	1789	1875	735
90°	4	385	766	960	1006	36
95°	4	240	526	639	657	6
105°	18	104	258	313	326	21
115°	36	54	131	168	177	34
125°	32	36	82	95	100	31
135°	41	45	50	72	77	32
145°	41	45	45	50	54	27
155°	45	50	50	50	45	21
165°	50	50	50	50	50	14
175°	50	50	45	41	41	5
180°	45	45	45	45	45	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31329.4	31329.4	31329.4	31329.4	<i>31329.4</i>
2.5°	<i>31202.6</i>	<i>31333.9</i>	<i>31170.9</i>	<i>31347.5</i>	<i>31392.8</i>
5°	31125.6	31234.3	31016.8	31112.0	<i>31071.2</i>
7.5°	30985.1	31021.4	30763.2	30840.2	<i>30758.6</i>
10°	30776.8	30758.6	30455.1	30604.6	<i>30622.7</i>
12.5°	30468.7	30414.4	30142.6	30369.1	<i>30373.6</i>
15°	30115.4	29997.6	29784.7	30047.4	<i>30083.7</i>
17.5°	29707.7	29553.7	29413.2	29753.0	<i>29698.6</i>
20°	29232.0	29050.8	29023.7	29395.1	<i>29259.2</i>
22.5°	28643.1	28502.7	28566.1	28919.5	<i>28833.4</i>
25°	27977.2	27854.9	28049.7	28307.9	<i>28226.4</i>
27.5°	27275.1	27202.6	27424.6	27623.9	<i>27465.3</i>
30°	26505.0	26464.2	26758.7	26921.7	<i>26722.4</i>
32.5°	25666.9	25680.5	25961.4	26183.3	<i>25997.6</i>
35°	24797.2	24856.1	25109.7	25377.0	<i>25277.4</i>
37.5°	23841.3	23972.7	24226.4	24529.9	<i>24425.7</i>
40°	22831.2	23021.4	23302.3	23669.2	<i>23574.1</i>
42.5°	21739.4	21979.5	22341.9	22749.6	<i>22740.6</i>
45°	20579.7	20915.0	21304.5	21848.1	<i>21916.1</i>
47.5°	19374.8	19750.8	20244.5	20969.3	<i>21073.5</i>
50°	18065.6	18536.7	19152.8	20022.6	<i>20086.0</i>
52.5°	16606.9	17250.2	18065.6	18899.1	<i>18822.1</i>
55°	15143.8	15873.1	16955.8	17635.3	<i>17594.5</i>
57.5°	13685.1	14505.0	15818.7	16303.4	<i>16298.9</i>
60°	12054.3	13091.7	14527.7	14894.6	<i>14532.2</i>
62.5°	10545.8	11660.2	13150.6	12883.3	<i>11642.1</i>
65°	8887.8	10278.5	11669.3	9848.2	<i>8040.7</i>
67.5°	7415.6	8865.2	9911.6	6745.2	<i>5775.7</i>
70°	5934.3	7533.4	7728.2	5005.6	<i>4937.7</i>
72.5°	4620.6	6323.9	5331.8	4285.4	<i>4502.8</i>
75°	3497.2	5073.6	3732.7	3818.8	<i>4067.9</i>
77.5°	2550.4	3895.8	2903.7	3347.7	<i>3551.5</i>
80°	1753.1	2758.8	2369.2	2813.1	<i>2953.6</i>
82.5°	1100.8	1821.1	1898.1	2265.0	<i>2410.0</i>
85°	602.5	1155.1	1481.3	1789.3	<i>1875.4</i>
87.5°	249.1	697.6	1132.5	1381.6	<i>1454.1</i>
90°	4.5	385.0	765.6	960.4	<i>1005.7</i>
92.5°	4.5	294.4	625.1	774.6	<i>806.3</i>
95°	4.5	240.1	525.5	638.7	<i>656.8</i>
97.5°	9.1	190.3	439.4	530.0	<i>548.1</i>
100°	13.6	158.5	366.9	443.9	<i>457.5</i>
102.5°	18.1	126.8	308.0	371.5	<i>385.0</i>
105°	18.1	104.2	258.2	312.6	<i>326.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.7	63.4	154.0	194.8	203.8
115°	36.2	54.4	131.4	167.6	176.7
117.5°	36.2	45.3	113.2	140.4	149.5
120°	36.2	40.8	99.7	122.3	126.8
122.5°	36.2	36.2	86.1	108.7	113.2
125°	31.7	36.2	81.5	95.1	99.7
127.5°	36.2	36.2	72.5	86.1	90.6
130°	36.2	40.8	63.4	81.5	81.5
132.5°	40.8	45.3	58.9	77.0	77.0
135°	40.8	45.3	49.8	72.5	77.0
137.5°	45.3	45.3	45.3	67.9	72.5
140°	45.3	45.3	40.8	58.9	63.4
142.5°	40.8	45.3	40.8	54.4	58.9
145°	40.8	45.3	45.3	49.8	54.4
147.5°	45.3	45.3	45.3	45.3	49.8
150°	45.3	45.3	45.3	45.3	45.3
152.5°	45.3	45.3	45.3	45.3	45.3
155°	45.3	49.8	49.8	49.8	45.3
157.5°	45.3	49.8	49.8	49.8	49.8
160°	45.3	49.8	49.8	49.8	49.8
162.5°	49.8	49.8	49.8	49.8	49.8
165°	49.8	49.8	49.8	49.8	49.8
167.5°	49.8	54.4	49.8	49.8	49.8
170°	49.8	49.8	49.8	45.3	45.3
172.5°	49.8	49.8	49.8	45.3	45.3
175°	49.8	49.8	45.3	40.8	40.8
177.5°	54.4	49.8	45.3	40.8	36.2
180°	45.3	45.3	45.3	45.3	45.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	22.6	86.1	222.0	267.3	276.3
110°	27.2	72.5	185.7	226.5	235.6



(END OF REPORT)