

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: P830820

Luminaire Tested: **OHBL-90SE-A-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830820
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-L935-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

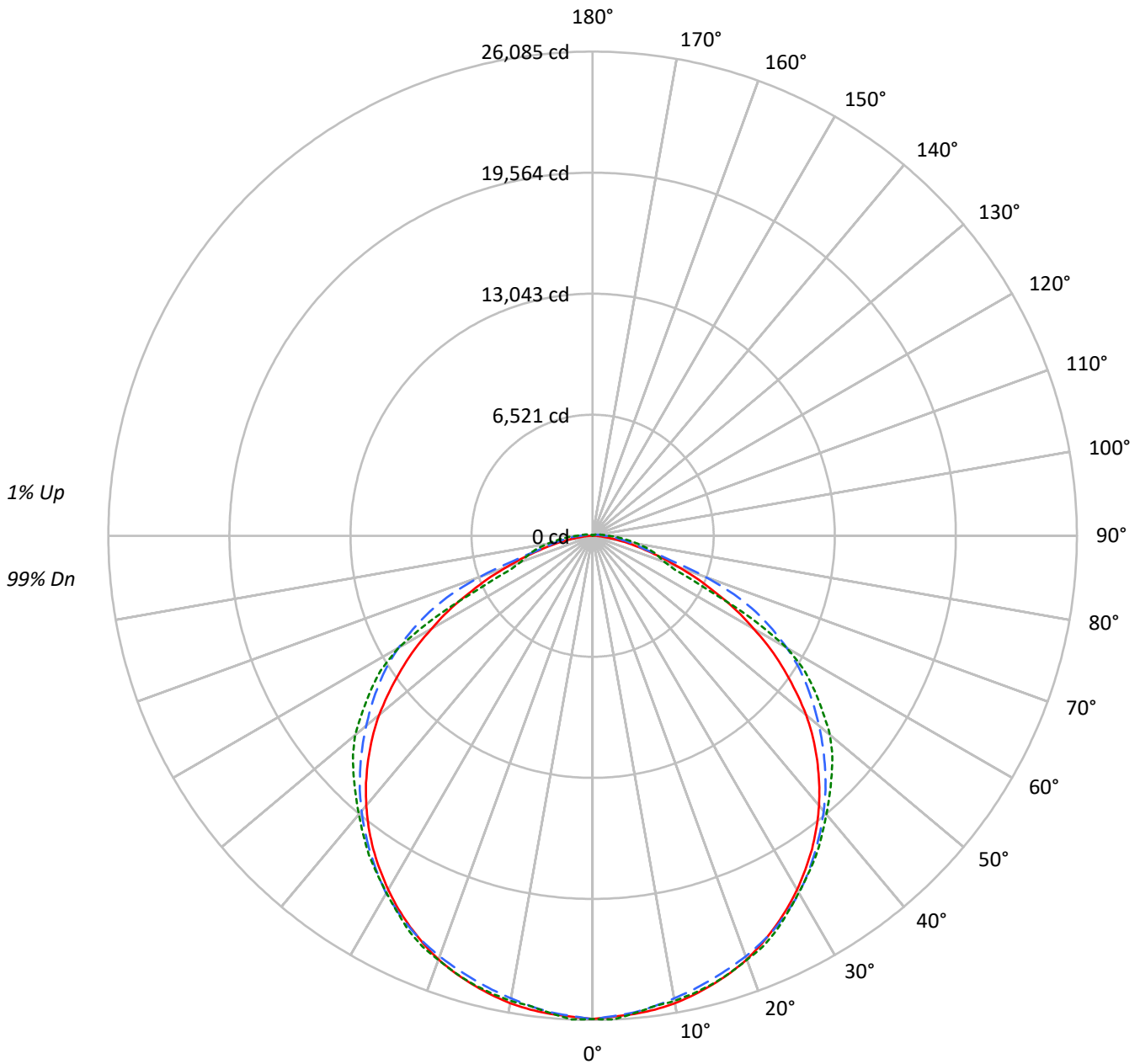
Lumens per Lamp: N/A
Luminaire Lumens: 73579.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	41169	41169	41169
5°	40900	40571	40657
10°	40750	39957	40205
15°	40492	39497	39936
20°	40233	39208	39582
25°	39748	38916	39232
30°	39220	38457	38490
35°	38588	37727	38080
40°	37768	36974	37523
45°	36630	36103	37277
50°	35089	35111	36981
55°	32640	34134	35601
60°	29433	32706	32913
65°	25249	30054	20859
70°	20337	23462	15123
75°	15247	13928	15349
80°	10613	11581	14654
85°	6040	10611	13736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2454.6	3.3
10°-20°	7038.6	9.6
20°-30°	10750.2	14.6
30°-40°	13043.7	17.7
40°-50°	13671.1	18.6
50°-60°	12388.0	16.8
60°-70°	8305.7	11.3
70°-80°	3729.6	5.1
80°-90°	1353.4	1.8
90°-100°	407.4	0.6
100°-110°	192.2	0.3
110°-120°	96.3	0.1
120°-130°	53.1	0.1
130°-140°	36.5	0.0
140°-150°	24.6	0.0
150°-160°	18.2	0.0
160°-170°	11.7	0.0
170°-180°	3.7	0.0
0°-30°	20243.5	27.5
0°-40°	33287.2	45.2
0°-60°	59346.3	80.7
0°-90°	72735.1	98.9
90°-120°	696.0	0.9
90°-150°	810.2	1.1
90°-180°	844.0	1.1
0°-180°	73579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26032	26032	26032	26032	26032	
5°	25863	25953	25773	25852	25818	###
15°	25024	24926	24749	24967	24997	7065
25°	23247	23145	23307	23522	23454	10716
35°	20604	20654	20864	21086	21004	12878
45°	17100	17379	17702	18154	18211	13173
55°	12583	13189	14089	14654	14620	11232
65°	7385	8541	9696	8183	6681	7358
75°	2906	4216	3102	3173	3380	3176
85°	501	960	1231	1487	1558	611
90°	4	320	636	798	836	30
95°	4	200	437	531	546	5
105°	15	87	215	260	271	17
115°	30	45	109	139	147	28
125°	26	30	68	79	83	26
135°	34	38	41	60	64	27
145°	34	38	38	41	45	22
155°	38	41	41	41	38	17
165°	41	41	41	41	41	12
175°	41	41	38	34	34	4
180°	38	38	38	38	38	



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CATALOG NUMBER: OHBL-90SE-A-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26032.3	26032.3	26032.3	26032.3	26032.3
2.5°	25926.9	26036.1	25900.6	26047.4	26085.0
5°	25862.9	25953.3	25772.6	25851.6	25817.8
7.5°	25746.2	25776.4	25561.8	25625.8	25558.0
10°	25573.1	25558.0	25305.8	25430.1	25445.1
12.5°	25317.1	25272.0	25046.1	25234.3	25238.1
15°	25023.5	24925.7	24748.8	24967.1	24997.2
17.5°	24684.8	24556.8	24440.1	24722.4	24677.2
20°	24289.5	24139.0	24116.4	24425.1	24312.1
22.5°	23800.2	23683.5	23736.2	24029.8	23958.3
25°	23246.9	23145.3	23307.1	23521.7	23453.9
27.5°	22663.5	22603.2	22787.7	22953.3	22821.6
30°	22023.6	21989.7	22234.4	22369.9	22204.3
32.5°	21327.2	21338.5	21571.9	21756.3	21602.0
35°	20604.5	20653.5	20864.2	21086.3	21003.5
37.5°	19810.3	19919.5	20130.2	20382.4	20295.9
40°	18970.9	19129.0	19362.4	19667.3	19588.2
42.5°	18063.8	18263.3	18564.4	18903.2	18895.6
45°	17100.2	17378.7	17702.4	18154.1	18210.6
47.5°	16098.9	16411.3	16821.6	17423.9	17510.5
50°	15011.1	15402.6	15914.5	16637.2	16689.9
52.5°	13799.1	14333.6	15011.1	15703.7	15639.7
55°	12583.3	13189.3	14088.9	14653.5	14619.7
57.5°	11371.3	12052.6	13144.1	13546.9	13543.1
60°	10016.2	10878.2	12071.4	12376.3	12075.1
62.5°	8762.8	9688.7	10927.1	10705.0	9673.7
65°	7385.1	8540.7	9696.2	8183.1	6681.2
67.5°	6161.8	7366.3	8235.8	5604.7	4799.2
70°	4930.9	6259.6	6421.5	4159.3	4102.8
72.5°	3839.4	5254.6	4430.3	3560.8	3741.5
75°	2905.9	4215.8	3101.6	3173.1	3380.1
77.5°	2119.2	3237.1	2412.8	2781.6	2951.0
80°	1456.7	2292.3	1968.6	2337.5	2454.2
82.5°	914.7	1513.2	1577.1	1882.0	2002.5
85°	500.6	959.8	1230.9	1486.8	1558.3
87.5°	207.0	579.7	941.0	1148.0	1208.3
90°	3.8	319.9	636.1	798.0	835.6
92.5°	3.8	244.7	519.4	643.7	670.0
95°	3.8	199.5	436.6	530.7	545.8
97.5°	7.5	158.1	365.1	440.4	455.5
100°	11.3	131.7	304.9	368.9	380.2
102.5°	15.1	105.4	256.0	308.7	319.9
105°	15.1	86.6	214.6	259.7	271.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	26.3	52.7	128.0	161.9	169.4
115°	30.1	45.2	109.2	139.3	146.8
117.5°	30.1	37.6	94.1	116.7	124.2
120°	30.1	33.9	82.8	101.6	105.4
122.5°	30.1	30.1	71.5	90.3	94.1
125°	26.3	30.1	67.8	79.0	82.8
127.5°	30.1	30.1	60.2	71.5	75.3
130°	30.1	33.9	52.7	67.8	67.8
132.5°	33.9	37.6	48.9	64.0	64.0
135°	33.9	37.6	41.4	60.2	64.0
137.5°	37.6	37.6	37.6	56.5	60.2
140°	37.6	37.6	33.9	48.9	52.7
142.5°	33.9	37.6	33.9	45.2	48.9
145°	33.9	37.6	37.6	41.4	45.2
147.5°	37.6	37.6	37.6	37.6	41.4
150°	37.6	37.6	37.6	37.6	37.6
152.5°	37.6	37.6	37.6	37.6	37.6
155°	37.6	41.4	41.4	41.4	37.6
157.5°	37.6	41.4	41.4	41.4	41.4
160°	37.6	41.4	41.4	41.4	41.4
162.5°	41.4	41.4	41.4	41.4	41.4
165°	41.4	41.4	41.4	41.4	41.4
167.5°	41.4	45.2	41.4	41.4	41.4
170°	41.4	41.4	41.4	37.6	37.6
172.5°	41.4	41.4	41.4	37.6	37.6
175°	41.4	41.4	37.6	33.9	33.9
177.5°	45.2	41.4	37.6	33.9	30.1
180°	37.6	37.6	37.6	37.6	37.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	18.8	71.5	184.4	222.1	229.6
110°	22.6	60.2	154.3	188.2	195.7



(END OF REPORT)