

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: P829725

Luminaire Tested: **OHBL-100SE-W-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-W-UNV-L840-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

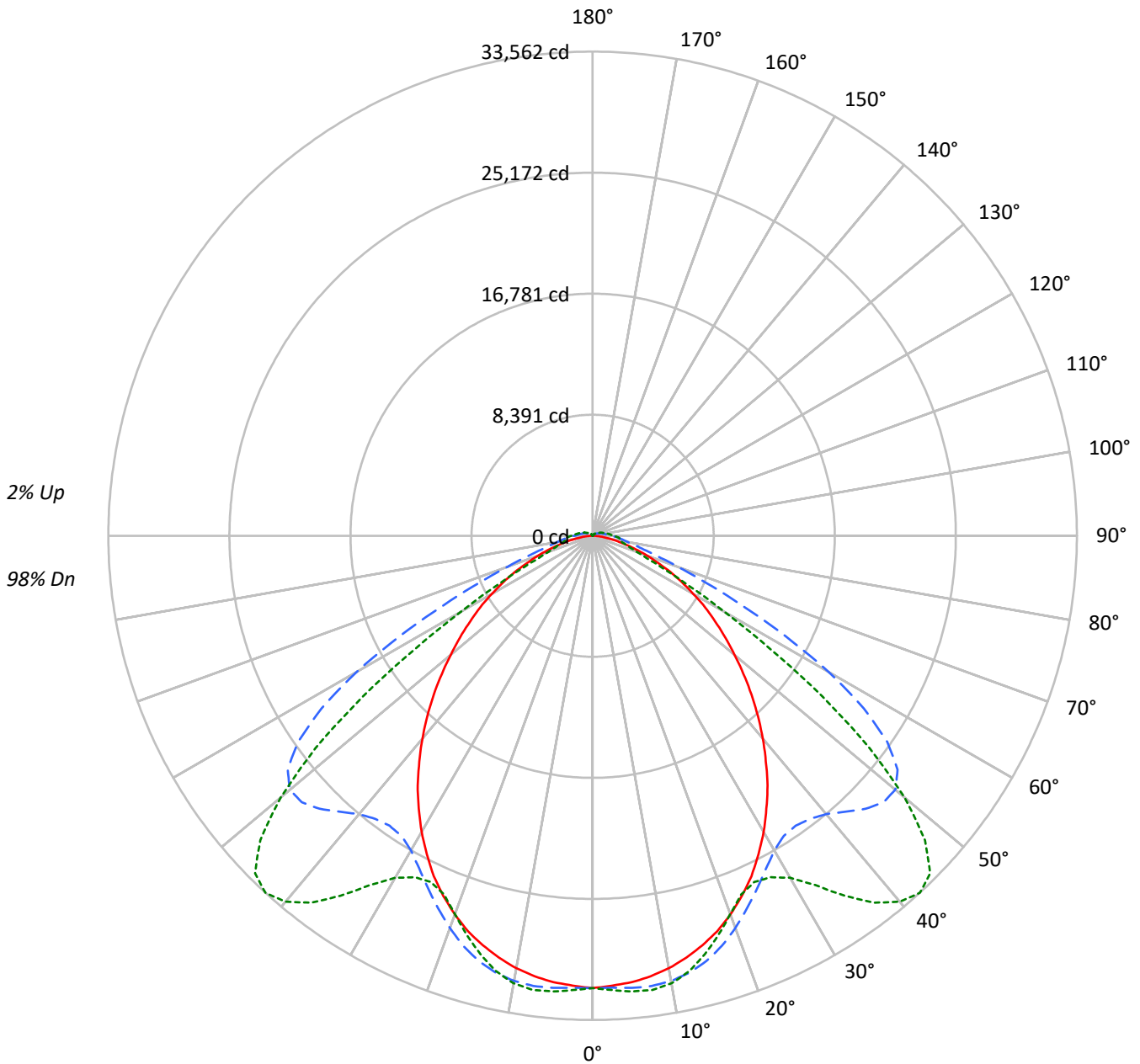
Lumens per Lamp: N/A
Luminaire Lumens: 93868.0 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
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	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49580	49580	49580
5°	49118	49533	49933
10°	48501	49479	49781
15°	47555	48683	47979
20°	46259	47032	45425
25°	44525	45027	44306
30°	42218	43543	47438
35°	39585	44373	55209
40°	36532	48086	63436
45°	33339	54584	67717
50°	30008	60405	62511
55°	26878	60387	47304
60°	23692	51147	28576
65°	20326	35368	17041
70°	16515	22908	12042
75°	12564	16462	10811
80°	9018	14523	11551
85°	6121	16093	16276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2995.9	3.2
10°-20°	8483.4	9.0
20°-30°	12414.0	13.2
30°-40°	16122.2	17.2
40°-50°	19687.2	21.0
50°-60°	17337.7	18.5
60°-70°	9034.8	9.6
70°-80°	3874.4	4.1
80°-90°	1860.7	2.0
90°-100°	874.2	0.9
100°-110°	543.3	0.6
110°-120°	321.3	0.3
120°-130°	174.6	0.2
130°-140°	87.6	0.1
140°-150°	42.1	0.0
150°-160°	14.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	23893.3	25.5
0°-40°	40015.4	42.6
0°-60°	77040.3	82.1
0°-90°	91810.1	97.8
90°-120°	1738.8	1.9
90°-150°	2043.2	2.2
90°-180°	2058.0	2.2
0°-180°	93868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31350	31350	31350	31350	31350	
5°	31059	31296	31465	31742	31709	###
15°	29389	30214	30505	30275	30031	8275
25°	26041	27434	26967	26460	26487	11950
35°	21137	23369	24539	28618	30451	13174
45°	15564	19581	26764	32405	33082	12001
55°	10362	17153	24925	21854	19426	9300
65°	5945	11884	11410	6344	5458	5882
75°	2394	5560	3666	2509	2381	2611
85°	507	1982	1867	1826	1846	566
90°	7	717	1231	1407	1441	35
95°	14	419	981	1150	1184	10
105°	27	237	636	764	778	29
115°	41	135	392	480	494	42
125°	47	68	230	298	304	40
135°	41	41	108	183	189	31
145°	54	41	47	88	102	32
155°	54	54	41	41	41	17
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31350.2	31350.2	31350.2	31350.2	<i>31350.2</i>
2.5°	31214.9	31350.2	31357.0	31546.3	<i>31526.1</i>
5°	31059.4	31296.1	31465.2	31742.5	<i>31708.7</i>
7.5°	30802.3	31174.3	31471.9	31776.3	<i>31749.3</i>
10°	30437.1	30944.4	31336.7	31586.9	<i>31505.8</i>
12.5°	29963.6	30633.2	31018.8	31072.9	<i>30917.3</i>
15°	29388.7	30213.9	30504.7	30274.8	<i>30031.3</i>
17.5°	28739.4	29706.6	29808.1	29307.5	<i>29003.2</i>
20°	27927.7	29030.2	28928.8	28238.9	<i>27900.7</i>
22.5°	27028.1	28286.2	27961.5	27237.8	<i>26913.1</i>
25°	26040.6	27434.0	26967.3	26460.0	<i>26487.0</i>
27.5°	24884.0	26466.7	26013.6	26243.5	<i>26676.4</i>
30°	23707.1	25452.2	25174.9	26514.1	<i>27366.3</i>
32.5°	22415.2	24410.5	24660.8	27305.4	<i>28698.8</i>
35°	21136.9	23368.9	24539.1	28617.6	<i>30450.6</i>
37.5°	19723.2	22313.8	24735.2	30132.7	<i>32053.6</i>
40°	18350.2	21285.7	25181.6	31492.2	<i>33115.5</i>
42.5°	<i>16950.1</i>	<i>20365.8</i>	<i>25932.4</i>	<i>32297.1</i>	<i>33562.0</i>
45°	15563.5	19581.2	26764.3	32405.4	<i>33081.7</i>
47.5°	14176.9	18918.3	27339.3	31546.3	<i>31235.2</i>
50°	12837.7	18329.9	27379.8	29483.4	<i>28211.8</i>
52.5°	11586.4	17788.8	26635.8	26196.2	<i>24221.2</i>
55°	10362.1	17153.0	24924.6	21853.8	<i>19425.6</i>
57.5°	9246.1	16273.7	22286.7	17186.8	<i>14535.4</i>
60°	8062.4	15083.3	18877.8	12573.9	<i>10483.9</i>
62.5°	6973.5	13602.0	15056.2	8752.4	<i>7534.9</i>
65°	5945.4	11884.0	11410.5	6344.4	<i>5458.4</i>
67.5°	4856.4	10105.1	8420.9	4626.4	<i>4058.3</i>
70°	4004.2	8454.7	6270.0	3598.3	<i>3266.9</i>
72.5°	3131.6	6885.5	4687.3	2922.0	<i>2739.3</i>
75°	2394.4	5559.8	3666.0	2509.4	<i>2380.9</i>
77.5°	1765.4	4396.5	2949.0	2218.5	<i>2096.8</i>
80°	1237.8	3463.1	2468.8	1981.8	<i>1934.4</i>
82.5°	831.9	2678.5	2103.5	1887.1	<i>1893.9</i>
85°	507.3	1981.8	1866.8	1826.2	<i>1846.5</i>
87.5°	243.5	1406.9	1603.0	1663.9	<i>1684.2</i>
90°	6.8	717.0	1231.0	1406.9	<i>1440.7</i>
92.5°	0.0	547.9	1082.2	1258.1	<i>1291.9</i>
95°	13.5	419.4	980.8	1149.8	<i>1183.7</i>
97.5°	13.5	345.0	879.3	1055.2	<i>1075.4</i>
100°	20.3	297.6	784.6	953.7	<i>974.0</i>
102.5°	20.3	263.8	703.4	852.2	<i>865.8</i>
105°	27.1	236.7	635.8	764.3	<i>777.8</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.6	162.3	446.4	541.1	554.6
115°	40.6	135.3	392.3	480.2	493.8
117.5°	47.3	121.7	345.0	426.1	432.9
120°	47.3	101.5	297.6	378.8	385.5
122.5°	47.3	81.2	263.8	338.2	345.0
125°	47.3	67.6	230.0	297.6	304.4
127.5°	40.6	47.3	196.2	263.8	270.6
130°	40.6	40.6	162.3	230.0	243.5
132.5°	40.6	40.6	135.3	202.9	216.4
135°	40.6	40.6	108.2	182.6	189.4
137.5°	40.6	40.6	87.9	155.6	169.1
140°	40.6	40.6	67.6	135.3	142.0
142.5°	47.3	40.6	60.9	115.0	121.7
145°	54.1	40.6	47.3	87.9	101.5
147.5°	54.1	47.3	47.3	74.4	81.2
150°	54.1	54.1	40.6	54.1	67.6
152.5°	54.1	54.1	40.6	40.6	54.1
155°	54.1	54.1	40.6	40.6	40.6
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°	33.8	209.7	568.2	683.1	696.7
110°	33.8	182.6	500.5	608.7	622.3



(END OF REPORT)