

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: P829726

Luminaire Tested: **OHBL-100SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829726
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-L850-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

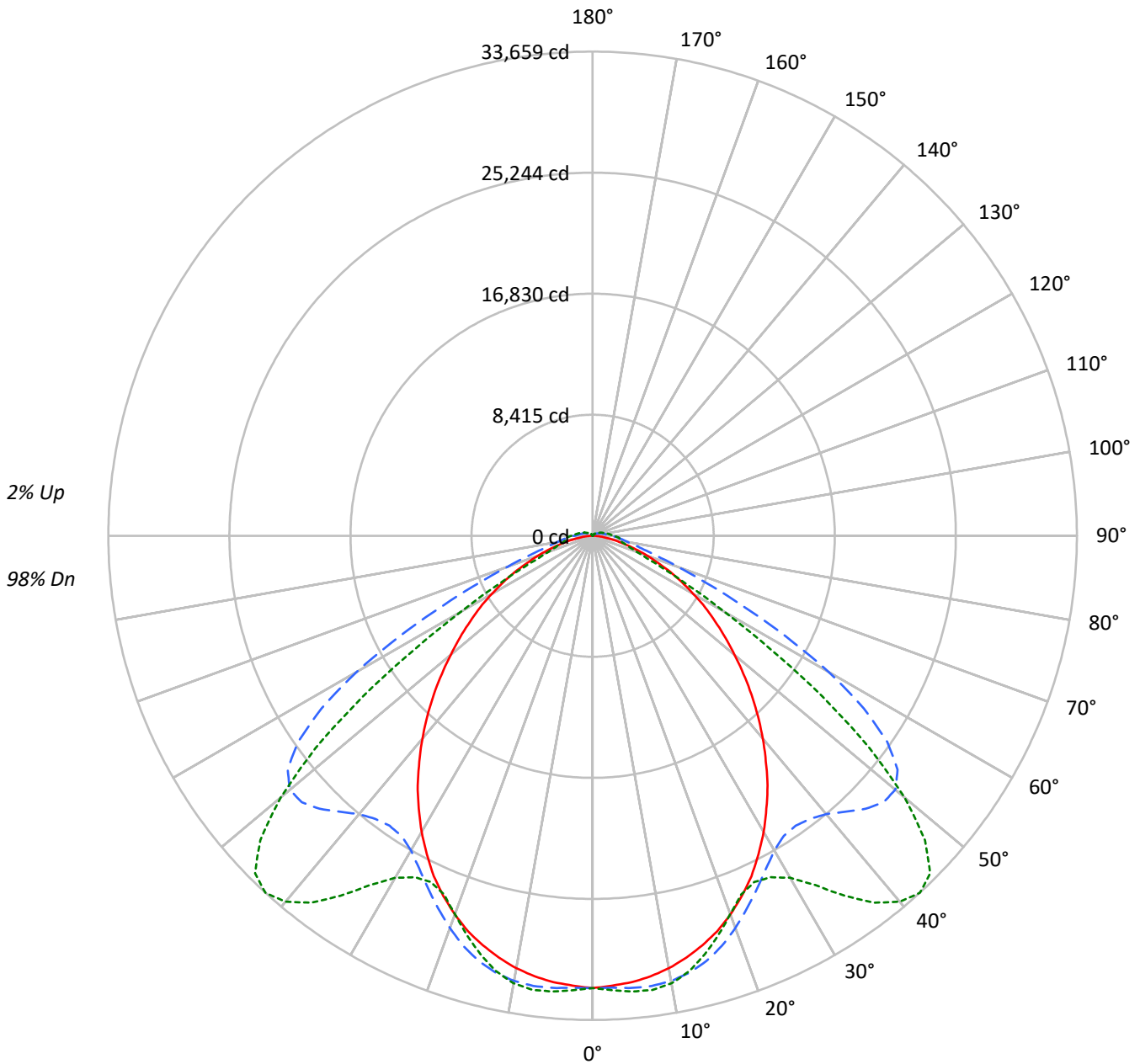
Lumens per Lamp: N/A
Luminaire Lumens: 94140.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	49723	49723	49723
5°	49260	49676	50078
10°	48642	49623	49926
15°	47693	48824	48118
20°	46393	47168	45556
25°	44654	45158	44434
30°	42340	43669	47575
35°	39700	44501	55368
40°	36638	48226	63620
45°	33435	54742	67914
50°	30095	60580	62692
55°	26956	60561	47441
60°	23761	51295	28659
65°	20385	35470	17091
70°	16563	22975	12077
75°	12600	16510	10843
80°	9045	14565	11585
85°	6139	16140	16324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3004.5	3.2
10°-20°	8508.0	9.0
20°-30°	12450.0	13.2
30°-40°	16168.9	17.2
40°-50°	19744.2	21.0
50°-60°	17387.9	18.5
60°-70°	9060.9	9.6
70°-80°	3885.6	4.1
80°-90°	1866.1	2.0
90°-100°	876.7	0.9
100°-110°	544.9	0.6
110°-120°	322.2	0.3
120°-130°	175.1	0.2
130°-140°	87.9	0.1
140°-150°	42.3	0.0
150°-160°	14.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	23962.5	25.5
0°-40°	40131.4	42.6
0°-60°	77263.5	82.1
0°-90°	92076.1	97.8
90°-120°	1743.8	1.9
90°-150°	2049.1	2.2
90°-180°	2064.0	2.2
0°-180°	94140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31441	31441	31441	31441	31441	
5°	31149	31387	31556	31834	31801	###
15°	29474	30301	30593	30362	30118	8299
25°	26116	27514	27045	26537	26564	11985
35°	21198	23437	24610	28700	30539	13212
45°	15609	19638	26842	32499	33178	12035
55°	10392	17203	24997	21917	19482	9327
65°	5963	11918	11444	6363	5474	5899
75°	2401	5576	3677	2517	2388	2618
85°	509	1988	1872	1832	1852	567
90°	7	719	1235	1411	1445	35
95°	14	421	984	1153	1187	10
105°	27	237	638	766	780	29
115°	41	136	393	482	495	42
125°	48	68	231	298	305	40
135°	41	41	108	183	190	32
145°	54	41	48	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°	31441.0	31441.0	31441.0	31441.0	<i>31441.0</i>
2.5°	31305.4	31441.0	31447.8	31637.8	<i>31617.4</i>
5°	31149.4	31386.8	31556.4	31834.5	<i>31800.6</i>
7.5°	30891.6	31264.7	31563.1	31868.4	<i>31841.3</i>
10°	30525.3	31034.0	31427.5	31678.5	<i>31597.1</i>
12.5°	30050.4	30722.0	31108.7	31162.9	<i>31006.9</i>
15°	29473.9	30301.4	30593.1	30362.5	<i>30118.3</i>
17.5°	28822.7	29792.7	29894.4	29392.5	<i>29087.2</i>
20°	28008.6	29114.3	29012.6	28320.7	<i>27981.5</i>
22.5°	27106.5	28368.2	28042.6	27316.7	<i>26991.1</i>
25°	26116.1	27513.5	27045.4	26536.6	<i>26563.8</i>
27.5°	24956.1	26543.4	26088.9	26319.6	<i>26753.7</i>
30°	23775.8	25525.9	25247.8	26590.9	<i>27445.6</i>
32.5°	22480.2	24481.3	24732.3	27384.6	<i>28781.9</i>
35°	21198.1	23436.6	24610.2	28700.5	<i>30538.8</i>
37.5°	19780.4	22378.4	24806.9	30220.0	<i>32146.5</i>
40°	18403.4	21347.3	25254.6	31583.5	<i>33211.5</i>
42.5°	<i>16999.2</i>	<i>20424.8</i>	<i>26007.5</i>	<i>32390.7</i>	<i>33659.2</i>
45°	15608.6	19637.9	26841.9	32499.3	<i>33177.6</i>
47.5°	14218.0	18973.2	27418.5	31637.8	<i>31325.7</i>
50°	12874.9	18383.0	27459.2	29568.8	<i>28293.5</i>
52.5°	11620.0	17840.3	26713.0	26272.1	<i>24291.3</i>
55°	10392.2	17202.7	24996.8	21917.2	<i>19481.9</i>
57.5°	9272.9	16320.9	22351.3	17236.6	<i>14577.5</i>
60°	8085.8	15127.0	18932.5	12610.3	<i>10514.3</i>
62.5°	6993.7	13641.4	15099.8	8777.7	<i>7556.7</i>
65°	5962.6	11918.4	11443.6	6362.8	<i>5474.2</i>
67.5°	4870.5	10134.4	8445.3	4639.8	<i>4070.0</i>
70°	4015.8	8479.2	6288.2	3608.8	<i>3276.4</i>
72.5°	3140.7	6905.5	4700.9	2930.4	<i>2747.3</i>
75°	2401.3	5576.0	3676.6	2516.6	<i>2387.8</i>
77.5°	1770.5	4409.2	2957.6	2225.0	<i>2102.9</i>
80°	1241.4	3473.1	2475.9	1987.5	<i>1940.1</i>
82.5°	834.4	2686.2	2109.6	1892.6	<i>1899.4</i>
85°	508.8	1987.5	1872.2	1831.5	<i>1851.9</i>
87.5°	244.2	1410.9	1607.7	1668.7	<i>1689.1</i>
90°	6.8	719.0	1234.6	1410.9	<i>1444.9</i>
92.5°	0.0	549.5	1085.3	1261.7	<i>1295.6</i>
95°	13.6	420.6	983.6	1153.2	<i>1187.1</i>
97.5°	13.6	346.0	881.8	1058.2	<i>1078.6</i>
100°	20.4	298.5	786.9	956.5	<i>976.8</i>
102.5°	20.4	264.6	705.5	854.7	<i>868.3</i>
105°	27.1	237.4	637.6	766.5	<i>780.1</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.7	162.8	447.7	542.7	556.2
115°	40.7	135.7	393.4	481.6	495.2
117.5°	47.5	122.1	346.0	427.4	434.1
120°	47.5	101.8	298.5	379.9	386.7
122.5°	47.5	81.4	264.6	339.2	346.0
125°	47.5	67.8	230.6	298.5	305.3
127.5°	40.7	47.5	196.7	264.6	271.3
130°	40.7	40.7	162.8	230.6	244.2
132.5°	40.7	40.7	135.7	203.5	217.1
135°	40.7	40.7	108.5	183.2	189.9
137.5°	40.7	40.7	88.2	156.0	169.6
140°	40.7	40.7	67.8	135.7	142.5
142.5°	47.5	40.7	61.1	115.3	122.1
145°	54.3	40.7	47.5	88.2	101.8
147.5°	54.3	47.5	47.5	74.6	81.4
150°	54.3	54.3	40.7	54.3	67.8
152.5°	54.3	54.3	40.7	40.7	54.3
155°	54.3	54.3	40.7	40.7	40.7
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°	33.9	210.3	569.8	685.1	698.7
110°	33.9	183.2	502.0	610.5	624.1



(END OF REPORT)