

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: P829712

Luminaire Tested: **OHBL-100SE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829712
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-100SE-NL-UNV-L835-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

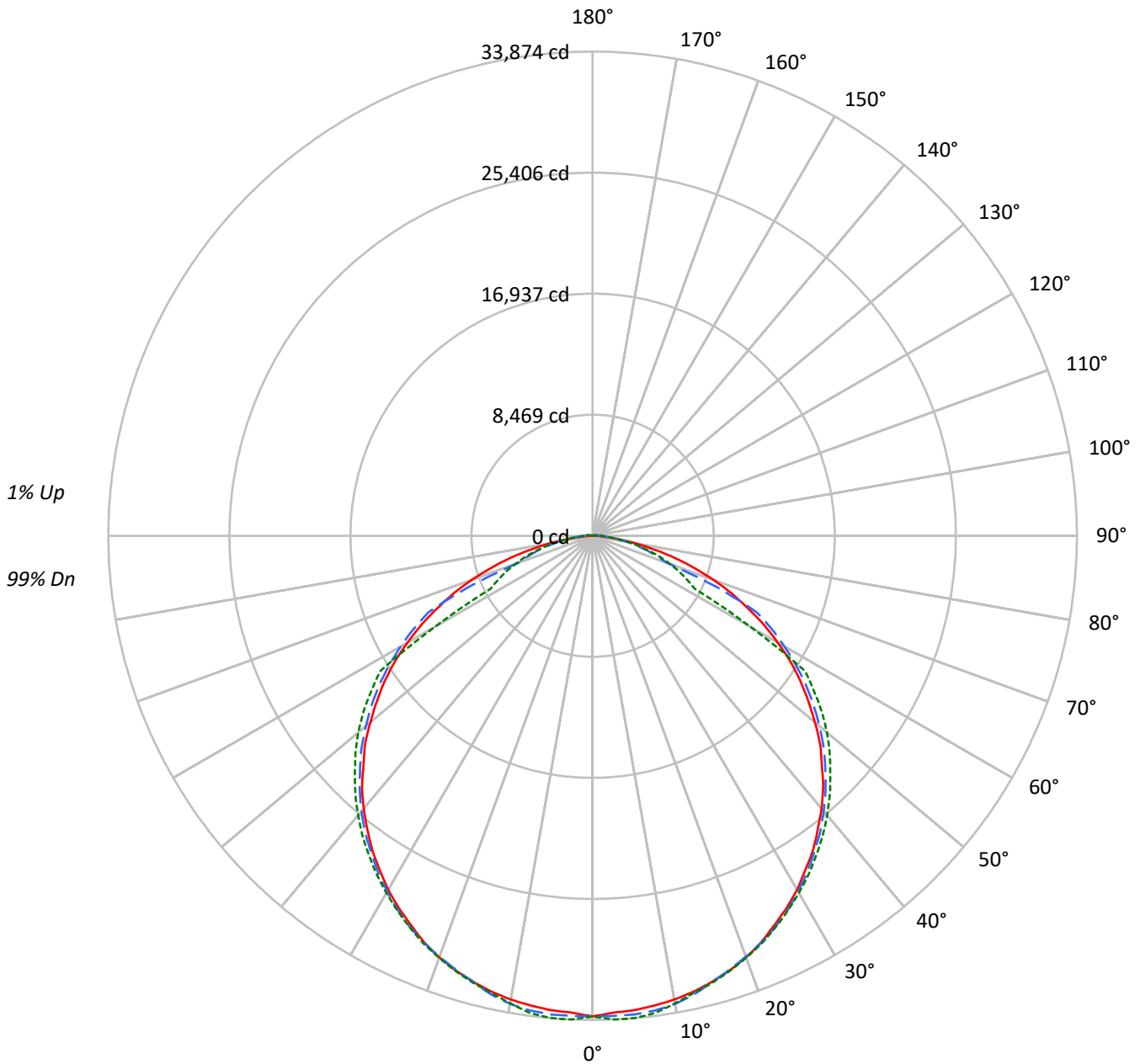
Lumens per Lamp: N/A
Luminaire Lumens: 94411.0 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 590.1
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

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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	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°	53180	53180	53180
5°	52886	53364	53767
10°	52901	53403	53337
15°	52892	52882	52998
20°	52820	52740	52869
25°	52459	52726	52767
30°	52216	52485	52690
35°	51877	52162	52651
40°	51429	51917	52684
45°	50688	51453	52575
50°	49924	50941	52624
55°	48968	50238	52045
60°	47328	49008	40517
65°	44778	47382	27269
70°	41416	25154	26465
75°	36125	23902	25273
80°	27781	21927	23161
85°	14021	22161	22693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3194.7	3.4
10°-20°	9147.2	9.7
20°-30°	13918.2	14.7
30°-40°	16922.6	17.9
40°-50°	17793.3	18.8
50°-60°	16247.4	17.2
60°-70°	10415.4	11.0
70°-80°	4920.1	5.2
80°-90°	1364.3	1.4
90°-100°	361.3	0.4
100°-110°	98.9	0.1
110°-120°	27.4	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°	26260.1	27.8
0°-40°	43182.8	45.7
0°-60°	77223.5	81.8
0°-90°	93923.3	99.5
90°-120°	487.7	0.5
90°-150°	487.7	0.5
90°-180°	488.0	0.5
0°-180°	94411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33627	33627	33627	33627	33627	
5°	33314	33444	33615	33798	33868	###
15°	32305	32547	32299	32346	32370	9120
25°	30063	30110	30216	30263	30240	13872
35°	26871	26711	27018	27349	27272	16793
45°	22663	22622	23006	23548	23507	17517
55°	17760	17625	18220	18828	18876	15839
65°	11966	11966	12662	7263	7287	11863
75°	5912	6025	3912	4119	4136	6232
85°	773	980	1221	1322	1251	1142
90°	0	330	543	643	632	34
95°	18	171	390	525	525	10
105°	29	65	94	94	89	30
115°	29	41	59	41	6	21
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33626.8	33626.8	33626.8	33626.8	<i>33626.8</i>
2.5°	<i>33390.6</i>	<i>33503.1</i>	<i>33626.8</i>	<i>33786.1</i>	<i>33874.1</i>
5°	33313.8	33443.7	33614.9	33797.9	<i>33868.5</i>
7.5°	33148.9	33331.3	33496.8	33626.8	<i>33668.0</i>
10°	32942.1	33160.7	33255.1	33243.2	<i>33213.8</i>
12.5°	32664.7	32895.2	32865.9	32729.7	<i>32753.4</i>
15°	32304.9	32546.7	32299.3	32346.1	<i>32369.9</i>
17.5°	31880.1	32116.3	31827.0	31921.3	<i>31927.6</i>
20°	31384.7	31561.5	31337.3	31414.1	<i>31414.1</i>
22.5°	30788.8	30912.5	30818.1	30871.2	<i>30883.1</i>
25°	30062.9	30109.7	30215.9	30263.4	<i>30239.7</i>
27.5°	29367.0	29307.6	29514.4	29626.2	<i>29566.9</i>
30°	28593.6	28499.3	28741.0	28924.1	<i>28853.5</i>
32.5°	27708.4	27649.7	27927.0	28145.1	<i>28103.8</i>
35°	26870.7	26711.4	27018.1	27348.6	<i>27271.7</i>
37.5°	25879.3	25785.0	26132.9	26481.5	<i>26440.3</i>
40°	24911.6	24752.3	25147.8	25560.7	<i>25519.5</i>
42.5°	23873.4	23684.1	24115.1	24611.2	<i>24563.7</i>
45°	22663.4	22622.1	23005.7	23548.5	<i>23507.3</i>
47.5°	21590.1	21383.3	21920.0	22445.3	<i>22492.8</i>
50°	20291.4	20215.2	20704.9	21342.1	<i>21389.0</i>
52.5°	19023.2	18970.1	19483.0	20126.5	<i>20208.9</i>
55°	17760.1	17624.6	18220.5	18828.3	<i>18875.8</i>
57.5°	16409.5	16267.7	16875.5	17536.5	<i>17636.4</i>
60°	14963.3	14827.8	15494.3	16108.4	<i>12810.0</i>
62.5°	13517.8	13423.5	14120.0	10001.4	<i>8060.5</i>
65°	11966.1	11966.1	12662.0	7263.3	<i>7287.1</i>
67.5°	10514.9	10420.6	9441.0	6525.6	<i>6525.6</i>
70°	8956.9	8992.5	5439.9	5717.8	<i>5723.5</i>
72.5°	7393.3	7523.2	4697.1	4920.7	<i>4932.6</i>
75°	5912.1	6024.6	3911.8	4118.6	<i>4136.1</i>
77.5°	4342.9	3339.6	3144.7	3304.6	<i>3310.3</i>
80°	3050.4	2106.5	2407.6	2560.6	<i>2543.1</i>
82.5°	1781.6	1474.9	1764.1	1876.6	<i>1870.3</i>
85°	772.7	979.5	1221.3	1321.9	<i>1250.6</i>
87.5°	247.4	607.8	760.9	820.2	<i>814.0</i>
90°	0.0	330.5	542.9	642.8	<i>631.6</i>
92.5°	0.0	259.2	472.3	590.3	<i>596.0</i>
95°	17.5	171.2	389.8	525.4	<i>525.4</i>
97.5°	11.9	123.7	277.4	412.9	<i>424.8</i>
100°	11.9	100.0	183.0	294.9	<i>301.1</i>
102.5°	29.4	82.5	111.8	188.7	<i>194.9</i>
105°	29.4	65.0	94.3	94.3	<i>88.7</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.6	47.5	65.0	47.5	5.6
115°	29.4	41.2	58.7	41.2	5.6
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°	29.4	58.7	82.5	53.1	17.5
110°	35.6	53.1	70.6	47.5	5.6



(END OF REPORT)