

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: P829724

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829724  
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-L835-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

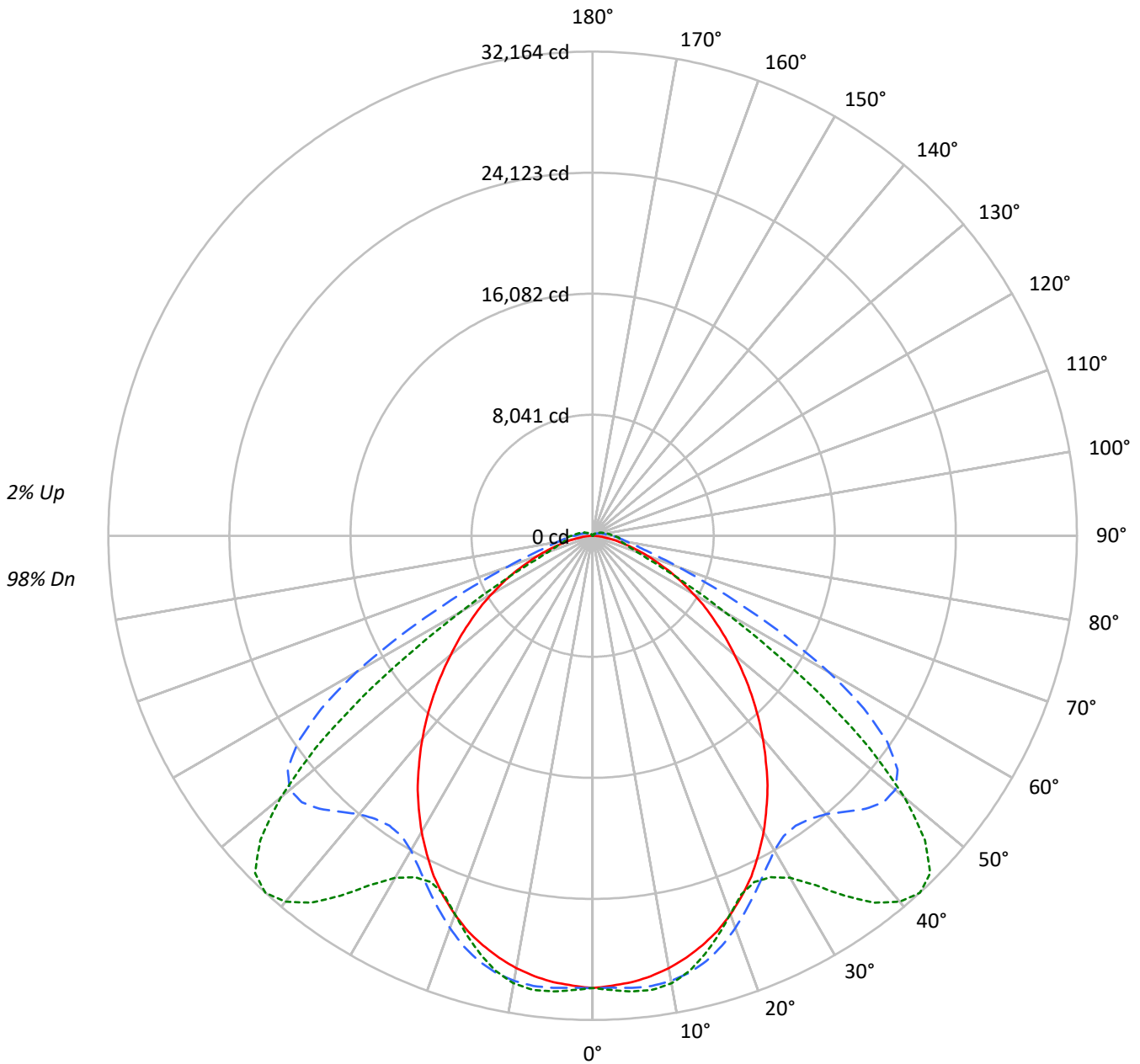
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 89957.0 lumens  
Efficiency: N/A  
Efficacy: 152.4 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<sub>in</sub>): 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°	47514	47514	47514
5°	47071	47469	47853
10°	46480	47418	47707
15°	45574	46655	45979
20°	44332	45072	43532
25°	42669	43151	42460
30°	40459	41728	45461
35°	37936	42524	52908
40°	35010	46083	60793
45°	31950	52309	64896
50°	28758	57889	59907
55°	25758	57871	45333
60°	22705	49015	27386
65°	19480	33894	16331
70°	15826	21954	11540
75°	12040	15776	10361
80°	8642	13918	11069
85°	5865	15423	15598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2871.0	3.2
10°-20°	8129.9	9.0
20°-30°	11896.8	13.2
30°-40°	15450.4	17.2
40°-50°	18866.9	21.0
50°-60°	16615.3	18.5
60°-70°	8658.3	9.6
70°-80°	3713.0	4.1
80°-90°	1783.1	2.0
90°-100°	837.7	0.9
100°-110°	520.7	0.6
110°-120°	307.9	0.3
120°-130°	167.3	0.2
130°-140°	84.0	0.1
140°-150°	40.4	0.0
150°-160°	14.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22897.7	25.5
0°-40°	38348.2	42.6
0°-60°	73830.4	82.1
0°-90°	87984.9	97.8
90°-120°	1666.3	1.9
90°-150°	1958.1	2.2
90°-180°	1972.0	2.2
0°-180°	89957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30044	30044	30044	30044	30044	
5°	29765	29992	30154	30420	30388	###
15°	28164	28955	29234	29013	28780	7930
25°	24956	26291	25844	25358	25383	11452
35°	20256	22395	23517	27425	29182	12625
45°	14915	18765	25649	31055	31703	11501
55°	9930	16438	23886	20943	18616	8912
65°	5698	11389	10935	6080	5231	5637
75°	2295	5328	3513	2405	2282	2502
85°	486	1899	1789	1750	1770	542
90°	6	687	1180	1348	1381	34
95°	13	402	940	1102	1134	10
105°	26	227	609	732	745	27
115°	39	130	376	460	473	40
125°	45	65	220	285	292	39
135°	39	39	104	175	182	30
145°	52	39	45	84	97	30
155°	52	52	39	39	39	16
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°	30044.0	30044.0	30044.0	30044.0	30044.0
2.5°	29914.4	30044.0	30050.5	30232.0	30212.5
5°	29765.3	29992.1	30154.2	30420.0	30387.5
7.5°	29519.0	29875.5	30160.7	30452.4	30426.4
10°	29168.9	29655.1	30031.0	30270.9	30193.1
12.5°	28715.2	29356.9	29726.4	29778.2	29629.1
15°	28164.2	28955.0	29233.7	29013.4	28780.0
17.5°	27541.9	28468.9	28566.1	28086.4	27794.7
20°	26764.1	27820.7	27723.4	27062.3	26738.2
22.5°	25902.0	27107.7	26796.5	26102.9	25791.8
25°	24955.6	26290.9	25843.7	25357.5	25383.4
27.5°	23847.2	25364.0	24929.7	25150.1	25564.9
30°	22719.4	24391.7	24125.9	25409.4	26226.1
32.5°	21481.3	23393.5	23633.3	26167.8	27503.1
35°	20256.2	22395.3	23516.6	27425.3	29181.9
37.5°	18901.5	21384.1	23704.6	28877.2	30718.1
40°	17585.6	20398.8	24132.4	30180.1	31735.8
42.5°	16243.9	19517.3	24851.9	30951.5	32163.6
45°	14915.0	18765.3	25649.2	31055.2	31703.4
47.5°	13586.2	18130.1	26200.2	30232.0	29933.8
50°	12302.8	17566.2	26239.1	28255.0	27036.4
52.5°	11103.6	17047.6	25526.1	25104.7	23212.0
55°	9930.4	16438.3	23886.1	20943.3	18616.3
57.5°	8860.9	15595.7	21358.1	16470.7	13929.8
60°	7726.5	14454.8	18091.2	12050.0	10047.1
62.5°	6682.9	13035.3	14428.9	8387.7	7220.9
65°	5697.7	11388.8	10935.1	6080.1	5231.0
67.5°	4654.1	9684.1	8070.1	4433.7	3889.2
70°	3837.3	8102.5	6008.8	3448.4	3130.8
72.5°	3001.2	6598.7	4492.0	2800.2	2625.2
75°	2294.6	5328.2	3513.2	2404.8	2281.7
77.5°	1691.8	4213.3	2826.1	2126.1	2009.4
80°	1186.2	3318.8	2365.9	1899.2	1853.8
82.5°	797.3	2566.9	2015.9	1808.5	1815.0
85°	486.1	1899.2	1789.0	1750.1	1769.6
87.5°	233.4	1348.3	1536.2	1594.6	1614.0
90°	6.5	687.1	1179.7	1348.3	1380.7
92.5°	0.0	525.0	1037.1	1205.6	1238.1
95°	13.0	401.9	939.9	1101.9	1134.3
97.5°	13.0	330.6	842.7	1011.2	1030.6
100°	19.4	285.2	751.9	914.0	933.4
102.5°	19.4	252.8	674.1	816.7	829.7
105°	25.9	226.9	609.3	732.5	745.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	38.9	155.6	427.8	518.6	531.5
115°	38.9	129.6	376.0	460.2	473.2
117.5°	45.4	116.7	330.6	408.4	414.8
120°	45.4	97.2	285.2	363.0	369.5
122.5°	45.4	77.8	252.8	324.1	330.6
125°	45.4	64.8	220.4	285.2	291.7
127.5°	38.9	45.4	188.0	252.8	259.3
130°	38.9	38.9	155.6	220.4	233.4
132.5°	38.9	38.9	129.6	194.5	207.4
135°	38.9	38.9	103.7	175.0	181.5
137.5°	38.9	38.9	84.3	149.1	162.0
140°	38.9	38.9	64.8	129.6	136.1
142.5°	45.4	38.9	58.3	110.2	116.7
145°	51.9	38.9	45.4	84.3	97.2
147.5°	51.9	45.4	45.4	71.3	77.8
150°	51.9	51.9	38.9	51.9	64.8
152.5°	51.9	51.9	38.9	38.9	51.9
155°	51.9	51.9	38.9	38.9	38.9
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°	32.4	200.9	544.5	654.7	667.6
110°	32.4	175.0	479.7	583.4	596.3



(END OF REPORT)