

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: P829701

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-N-UNV-L840-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

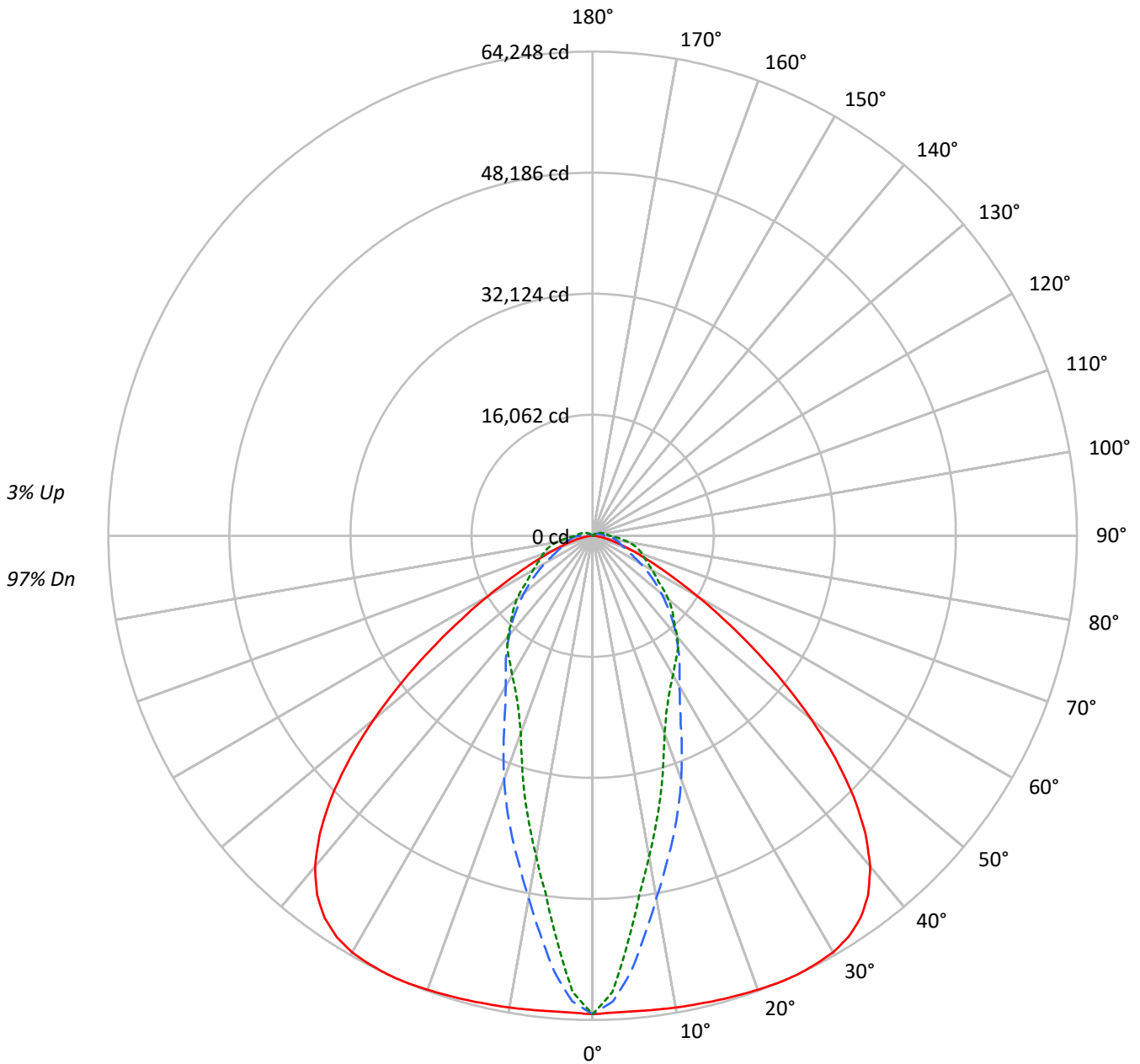
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 93673.0 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	100374	100374	100374
5°	100169	91449	85041
10°	101300	77066	68234
15°	103278	65940	56041
20°	106179	55781	45357
25°	109852	46194	39770
30°	113649	39817	36973
35°	116014	36307	35254
40°	114028	32817	33476
45°	104901	29677	31023
50°	88504	26240	29152
55°	67250	23006	25977
60°	47128	19754	24911
65°	31701	17038	24441
70°	21650	16023	25717
75°	15023	16573	27594
80°	10342	18443	28603
85°	6050	23277	30403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5342.7	5.7
10°-20°	12568.4	13.4
20°-30°	15754.4	16.8
30°-40°	16717.2	17.8
40°-50°	15115.0	16.1
50°-60°	10959.4	11.7
60°-70°	6877.5	7.3
70°-80°	4551.3	4.9
80°-90°	2622.0	2.8
90°-100°	1270.3	1.4
100°-110°	876.8	0.9
110°-120°	541.0	0.6
120°-130°	262.0	0.3
130°-140°	120.5	0.1
140°-150°	65.8	0.1
150°-160°	28.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	33665.5	35.9
0°-40°	50382.7	53.8
0°-60°	76457.0	81.6
0°-90°	90507.9	96.6
90°-120°	2688.1	2.9
90°-150°	3136.5	3.3
90°-180°	3165.0	3.4
0°-180°	93673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	63468	63468	63468	63468	63468	
5°	63342	61717	58092	55398	54003	###
15°	63825	52022	41318	36745	35078	18100
25°	64248	40224	27666	24555	23776	29681
35°	61946	26742	20079	19451	19445	38509
45°	48971	16938	14552	14902	15156	37306
55°	25926	10498	9496	10299	10668	23425
65°	9272	6089	5497	7043	7829	9649
75°	2863	3280	3691	5732	6077	3192
85°	501	1359	2700	3757	3449	601
90°	0	568	1564	2205	2223	32
95°	24	399	1377	1873	1957	21
105°	48	266	1003	1329	1365	49
115°	66	187	676	846	864	65
125°	72	97	344	435	429	63
135°	60	72	151	236	236	47
145°	72	78	91	139	133	43
155°	72	91	97	103	91	22
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°	63468.5	63468.5	63468.5	63468.5	63468.5
2.5°	63335.6	62973.1	61843.5	61154.9	60575.0
5°	63341.6	61716.7	58092.3	55398.2	54002.9
7.5°	63432.2	59819.9	53290.1	49357.6	47823.3
10°	63571.1	57470.1	48807.9	44615.8	43184.2
12.5°	63673.8	54824.4	44863.4	40556.5	38986.0
15°	63824.8	52021.5	41317.6	36744.9	35077.7
17.5°	63963.8	49381.8	37814.1	33036.0	31181.5
20°	64102.7	46536.7	34310.5	29387.5	27859.2
22.5°	64235.6	43534.5	30891.6	26554.4	25509.4
25°	64247.7	40224.3	27665.9	24555.0	23775.8
27.5°	64090.6	36793.2	25050.3	22881.7	22398.5
30°	63818.8	33464.9	23020.7	21673.6	21329.3
32.5°	63142.3	30070.0	21450.1	20507.8	20308.5
35°	61946.2	26741.7	20078.9	19450.7	19444.7
37.5°	60061.6	23787.8	18592.9	18484.2	18617.1
40°	57276.9	21202.5	17185.5	17475.4	17475.4
42.5°	53561.9	18955.4	15910.9	16206.9	16128.4
45°	48971.0	16937.8	14551.8	14902.1	15155.8
47.5°	43649.3	15161.9	13162.4	13839.0	14189.3
50°	37862.4	13470.5	11893.9	12757.7	13156.4
52.5°	31797.7	11906.0	10655.6	11646.3	11966.4
55°	25926.2	10498.5	9495.8	10299.2	10667.7
57.5°	20610.5	9157.5	8360.2	9121.3	9882.4
60°	16037.8	8003.8	7291.0	8378.3	9139.4
62.5°	12250.3	6976.9	6288.3	7683.6	8444.7
65°	9272.3	6088.9	5496.9	7043.3	7828.6
67.5°	6989.0	5321.8	4880.8	6578.2	7345.4
70°	5249.3	4578.8	4385.5	6288.3	6976.9
72.5°	3878.1	3896.2	3992.8	6034.5	6560.1
75°	2863.2	3280.0	3690.8	5732.5	6076.8
77.5°	2047.8	2718.3	3419.0	5370.1	5490.9
80°	1419.5	2216.9	3135.1	4892.9	4790.2
82.5°	888.0	1775.9	2881.4	4367.3	4083.4
85°	501.4	1359.1	2700.1	3757.2	3449.2
87.5°	223.5	1014.8	2361.9	2929.7	2736.4
90°	0.0	567.8	1564.5	2204.8	2222.9
92.5°	12.1	471.2	1443.7	2017.6	2078.0
95°	24.2	398.7	1377.3	1872.6	1957.2
97.5°	30.2	350.4	1292.7	1739.7	1812.2
100°	36.2	314.1	1190.0	1600.8	1661.2
102.5°	42.3	289.9	1093.3	1455.8	1504.1
105°	48.3	265.8	1002.7	1328.9	1365.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.4	205.4	755.1	954.4	984.6
115°	66.4	187.3	676.5	845.7	863.8
117.5°	72.5	163.1	592.0	743.0	749.0
120°	72.5	145.0	507.4	634.3	634.3
122.5°	72.5	120.8	422.8	525.5	519.5
125°	72.5	96.6	344.3	434.9	428.9
127.5°	66.4	78.5	277.9	362.4	356.4
130°	66.4	78.5	223.5	308.1	308.1
132.5°	60.4	72.5	181.2	265.8	265.8
135°	60.4	72.5	151.0	235.6	235.6
137.5°	60.4	78.5	126.9	205.4	205.4
140°	60.4	72.5	108.7	181.2	181.2
142.5°	66.4	72.5	96.6	157.1	157.1
145°	72.5	78.5	90.6	138.9	132.9
147.5°	72.5	84.6	90.6	120.8	114.8
150°	72.5	90.6	90.6	108.7	102.7
152.5°	72.5	90.6	90.6	102.7	96.6
155°	72.5	90.6	96.6	102.7	90.6
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°	48.3	247.7	918.2	1190.0	1232.3
110°	54.4	223.5	839.6	1063.1	1105.4



(END OF REPORT)