

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: P830147

Luminaire Tested: **OHBL-24SE-NL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830147
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-24SE-NL-UNV-L930-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

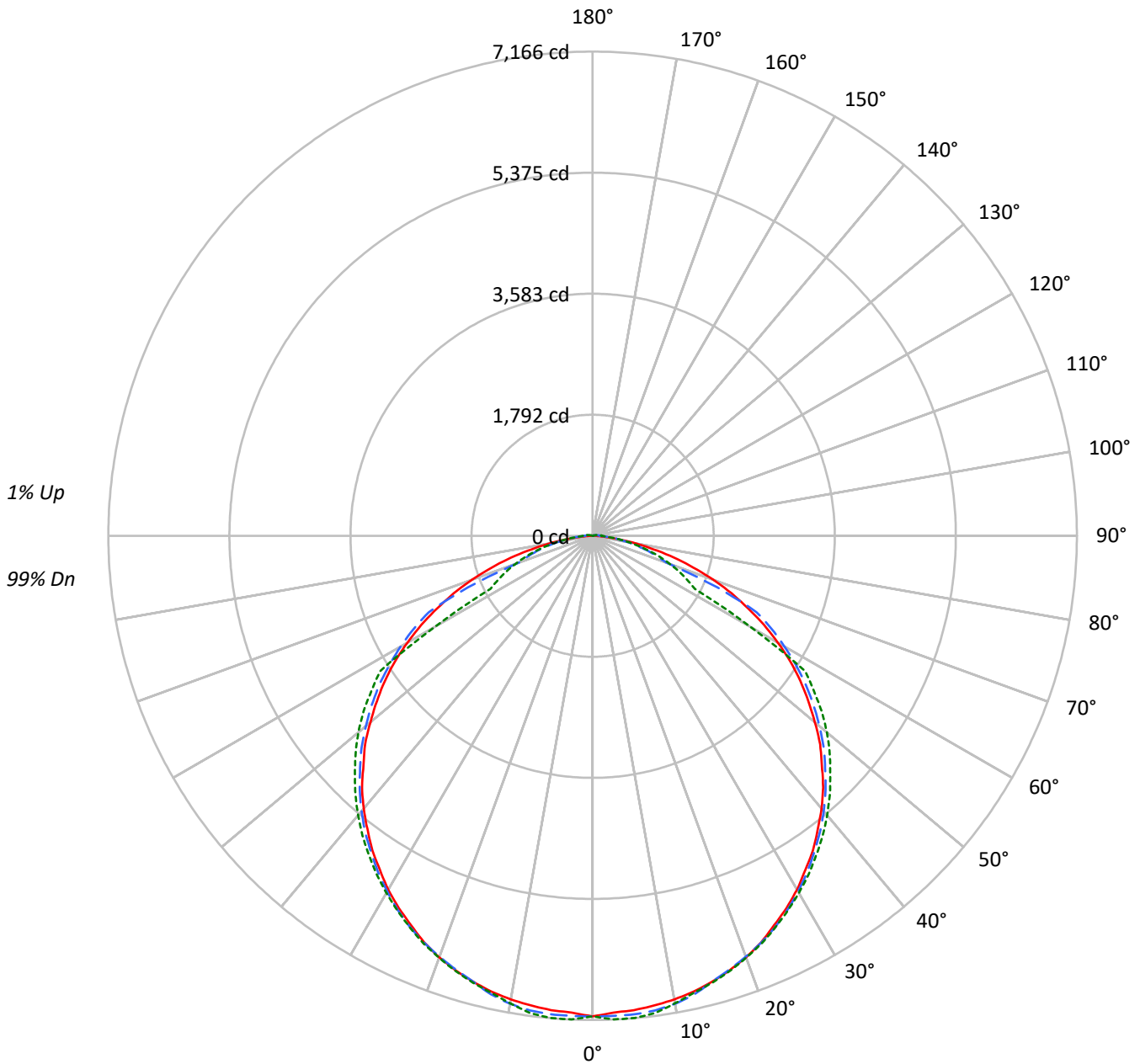
Lumens per Lamp: N/A
Luminaire Lumens: 19971.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 138
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°	12149	12149	12149
5°	12082	12191	12283
10°	12085	12200	12185
15°	12083	12081	12108
20°	12067	12049	12078
25°	11984	12046	12055
30°	11929	11990	12037
35°	11852	11917	12029
40°	11749	11861	12036
45°	11580	11755	12011
50°	11405	11638	12022
55°	11187	11477	11890
60°	10812	11196	9256
65°	10230	10825	6230
70°	9462	5746	6046
75°	8253	5461	5774
80°	6347	5009	5292
85°	3204	5062	5185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.8	3.4
10°-20°	1934.9	9.7
20°-30°	2944.2	14.7
30°-40°	3579.7	17.9
40°-50°	3763.9	18.8
50°-60°	3436.9	17.2
60°-70°	2203.2	11.0
70°-80°	1040.8	5.2
80°-90°	288.6	1.4
90°-100°	76.4	0.4
100°-110°	20.9	0.1
110°-120°	5.8	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°	5554.9	27.8
0°-40°	9134.6	45.7
0°-60°	16335.3	81.8
0°-90°	19867.9	99.5
90°-120°	103.1	0.5
90°-150°	103.1	0.5
90°-180°	103.0	0.5
0°-180°	19971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7113	7113	7113	7113	7113	
5°	7047	7074	7111	7149	7164	670
15°	6834	6885	6832	6842	6847	1929
25°	6359	6369	6392	6402	6397	2934
35°	5684	5650	5715	5785	5769	3552
45°	4794	4785	4866	4981	4973	3706
55°	3757	3728	3854	3983	3993	3350
65°	2531	2531	2678	1536	1542	2509
75°	1251	1274	828	871	875	1318
85°	164	207	258	280	265	242
90°	0	70	115	136	134	7
95°	4	36	82	111	111	2
105°	6	14	20	20	19	6
115°	6	9	12	9	1	4
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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CATALOG NUMBER: OHBL-24SE-NL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7113.2	7113.2	7113.2	7113.2	7113.2
2.5°	7063.2	7087.0	7113.2	7146.9	7165.5
5°	7047.0	7074.4	7110.6	7149.4	7164.3
7.5°	7012.1	7050.7	7085.7	7113.2	7121.9
10°	6968.3	7014.6	7034.5	7032.0	7025.8
12.5°	6909.7	6958.4	6952.2	6923.4	6928.4
15°	6833.5	6884.7	6832.4	6842.3	6847.3
17.5°	6743.7	6793.6	6732.5	6752.4	6753.7
20°	6638.9	6676.3	6628.8	6645.1	6645.1
22.5°	6512.8	6539.0	6519.0	6530.3	6532.8
25°	6359.3	6369.2	6391.7	6401.7	6396.7
27.5°	6212.1	6199.5	6243.3	6266.9	6254.4
30°	6048.5	6028.5	6079.7	6118.4	6103.4
32.5°	5861.2	5848.8	5907.5	5953.6	5944.9
35°	5684.0	5650.3	5715.2	5785.1	5768.9
37.5°	5474.3	5454.4	5528.0	5601.7	5593.0
40°	5269.6	5235.9	5319.6	5406.9	5398.2
42.5°	5050.0	5010.0	5101.1	5206.1	5196.0
45°	4794.0	4785.3	4866.5	4981.3	4972.6
47.5°	4567.0	4523.3	4636.8	4747.9	4758.0
50°	4292.3	4276.2	4379.8	4514.6	4524.5
52.5°	4024.0	4012.8	4121.3	4257.4	4274.8
55°	3756.8	3728.2	3854.2	3982.8	3992.9
57.5°	3471.1	3441.2	3569.7	3709.5	3730.7
60°	3165.2	3136.6	3277.6	3407.5	2709.7
62.5°	2859.5	2839.5	2986.8	2115.6	1705.0
65°	2531.2	2531.2	2678.4	1536.4	1541.5
67.5°	2224.2	2204.3	1997.1	1380.4	1380.4
70°	1894.7	1902.2	1150.7	1209.5	1210.7
72.5°	1563.9	1591.4	993.6	1040.9	1043.4
75°	1250.6	1274.4	827.5	871.2	874.9
77.5°	918.7	706.4	665.2	699.0	700.2
80°	645.3	445.6	509.3	541.7	538.0
82.5°	376.9	312.0	373.2	397.0	395.6
85°	163.5	207.2	258.3	279.6	264.6
87.5°	52.3	128.6	161.0	173.5	172.2
90°	0.0	69.9	114.8	136.0	133.6
92.5°	0.0	54.8	99.9	124.9	126.1
95°	3.7	36.2	82.5	111.1	111.1
97.5°	2.5	26.2	58.7	87.3	89.9
100°	2.5	21.1	38.7	62.4	63.7
102.5°	6.2	17.4	23.7	39.9	41.2
105°	6.2	13.7	20.0	20.0	18.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.5	10.0	13.7	10.0	1.2
115°	6.2	8.7	12.4	8.7	1.2
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°	6.2	12.4	17.4	11.2	3.7
110°	7.5	11.2	14.9	10.0	1.2



(END OF REPORT)