

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: P830139

Luminaire Tested: **OHBL-24SE-NL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830139
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-L730-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

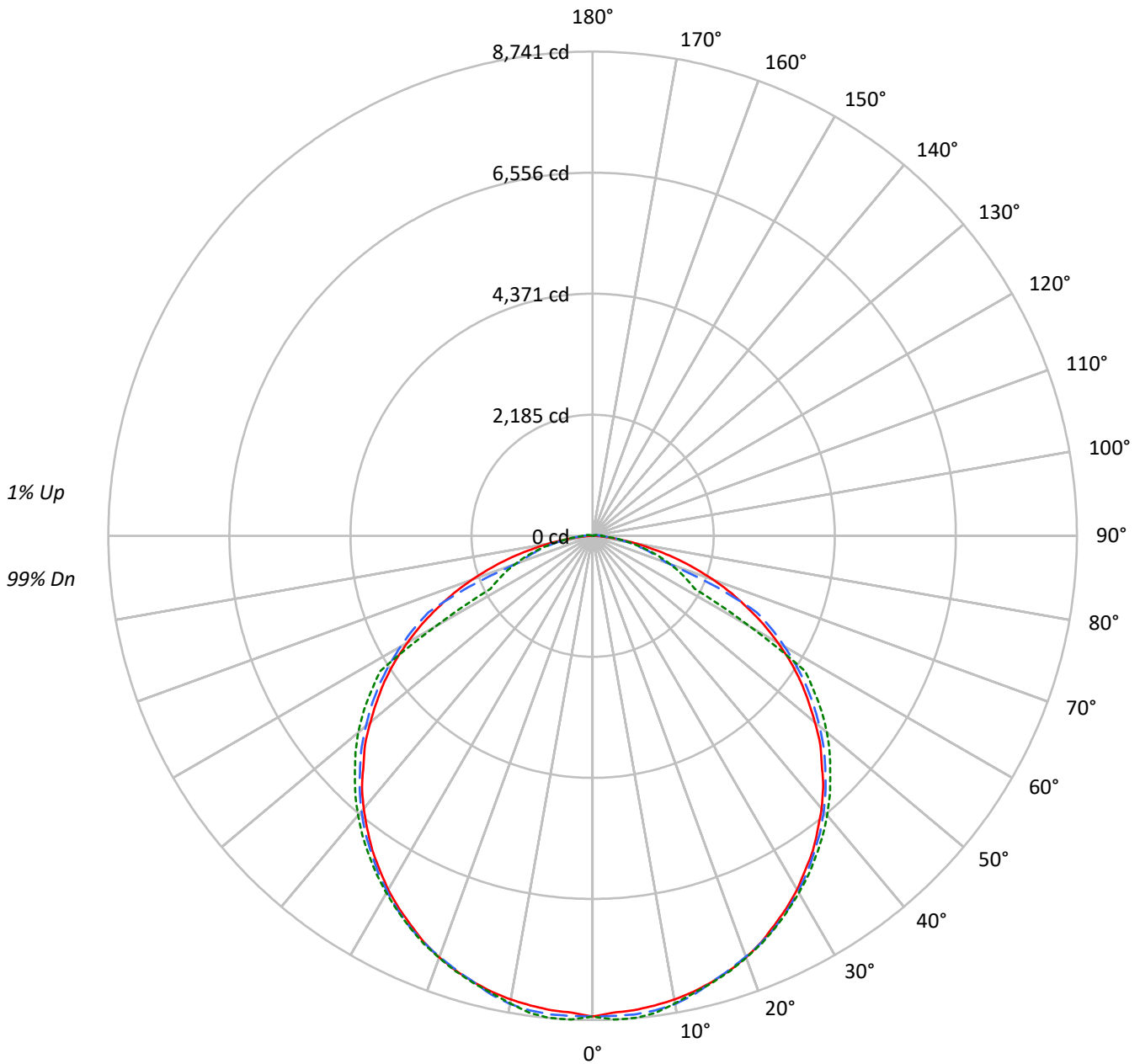
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24363.1 lumens
Efficiency: N/A
Efficacy: 176.5 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°	14821	14821	14821
5°	14739	14872	14985
10°	14743	14883	14865
15°	14741	14738	14770
20°	14721	14698	14734
25°	14620	14694	14706
30°	14552	14627	14685
35°	14458	14537	14674
40°	14333	14469	14683
45°	14126	14340	14652
50°	13913	14197	14666
55°	13647	14001	14505
60°	13190	13658	11292
65°	12480	13205	7600
70°	11542	7010	7376
75°	10068	6662	7043
80°	7743	6111	6455
85°	3908	6177	6324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.4	3.4
10°-20°	2360.5	9.7
20°-30°	3591.6	14.7
30°-40°	4366.9	17.9
40°-50°	4591.6	18.8
50°-60°	4192.7	17.2
60°-70°	2687.7	11.0
70°-80°	1269.7	5.2
80°-90°	352.1	1.4
90°-100°	93.2	0.4
100°-110°	25.5	0.1
110°-120°	7.1	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°	6776.5	27.8
0°-40°	11143.4	45.7
0°-60°	19927.7	81.8
0°-90°	24237.2	99.5
90°-120°	125.9	0.5
90°-150°	125.9	0.5
90°-180°	126.0	0.5
0°-180°	24363.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8678	8678	8678	8678	8678	
5°	8597	8630	8674	8722	8740	818
15°	8336	8399	8335	8347	8353	2353
25°	7758	7770	7797	7810	7803	3580
35°	6934	6893	6972	7057	7038	4333
45°	5848	5838	5937	6077	6066	4520
55°	4583	4548	4702	4859	4871	4087
65°	3088	3088	3268	1874	1880	3061
75°	1526	1555	1010	1063	1067	1608
85°	199	253	315	341	323	295
90°	0	85	140	166	163	9
95°	4	44	101	136	136	2
105°	8	17	24	24	23	8
115°	8	11	15	11	2	5
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°	8677.5	8677.5	8677.5	8677.5	8677.5
2.5°	8616.5	8645.6	8677.5	8718.6	8741.3
5°	8596.7	8630.2	8674.4	8721.6	8739.9
7.5°	8554.2	8601.2	8643.9	8677.5	8688.1
10°	8500.8	8557.2	8581.6	8578.5	8570.9
12.5°	8429.2	8488.7	8481.1	8446.0	8452.1
15°	8336.4	8398.8	8334.9	8347.0	8353.1
17.5°	8226.7	8287.7	8213.0	8237.4	8239.0
20°	8098.9	8144.5	8086.7	8106.5	8106.5
22.5°	7945.1	7977.0	7952.7	7966.4	7969.5
25°	7757.8	7769.9	7797.3	7809.5	7803.4
27.5°	7578.2	7562.9	7616.3	7645.1	7629.8
30°	7378.6	7354.3	7416.7	7463.9	7445.7
32.5°	7150.2	7135.1	7206.6	7262.9	7252.3
35°	6934.0	6892.9	6972.1	7057.4	7037.5
37.5°	6678.2	6653.9	6743.7	6833.6	6823.0
40°	6428.5	6387.4	6489.4	6596.0	6585.4
42.5°	6160.6	6111.7	6223.0	6351.0	6338.7
45°	5848.3	5837.7	5936.7	6076.8	6066.1
47.5°	5571.4	5518.0	5656.5	5792.1	5804.3
50°	5236.2	5216.6	5343.0	5507.4	5519.5
52.5°	4909.0	4895.3	5027.6	5193.7	5215.0
55°	4583.0	4548.1	4701.8	4858.7	4871.0
57.5°	4234.5	4197.9	4354.8	4525.3	4551.1
60°	3861.3	3826.3	3998.4	4156.8	3305.7
62.5°	3488.3	3464.0	3643.7	2580.9	2080.0
65°	3087.9	3087.9	3267.5	1874.3	1880.4
67.5°	2713.4	2689.1	2436.3	1683.9	1683.9
70°	2311.3	2320.5	1403.8	1475.5	1477.0
72.5°	1907.9	1941.4	1212.1	1269.8	1272.9
75°	1525.6	1554.7	1009.5	1062.8	1067.3
77.5°	1120.7	861.8	811.5	852.8	854.2
80°	787.2	543.6	621.3	660.8	656.3
82.5°	459.8	380.6	455.2	484.3	482.6
85°	199.4	252.8	315.2	341.1	322.7
87.5°	63.8	156.9	196.3	211.7	210.0
90°	0.0	85.3	140.1	165.9	163.0
92.5°	0.0	66.9	121.9	152.3	153.8
95°	4.5	44.2	100.6	135.6	135.6
97.5°	3.1	31.9	71.6	106.6	109.6
100°	3.1	25.8	47.2	76.1	77.7
102.5°	7.6	21.3	28.9	48.7	50.3
105°	7.6	16.8	24.3	24.3	22.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.2	12.3	16.8	12.3	1.5
115°	7.6	10.6	15.2	10.6	1.5
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°	7.6	15.2	21.3	13.7	4.5
110°	9.2	13.7	18.2	12.3	1.5



(END OF REPORT)