

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: P830141

Luminaire Tested: **OHBL-24SE-NL-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

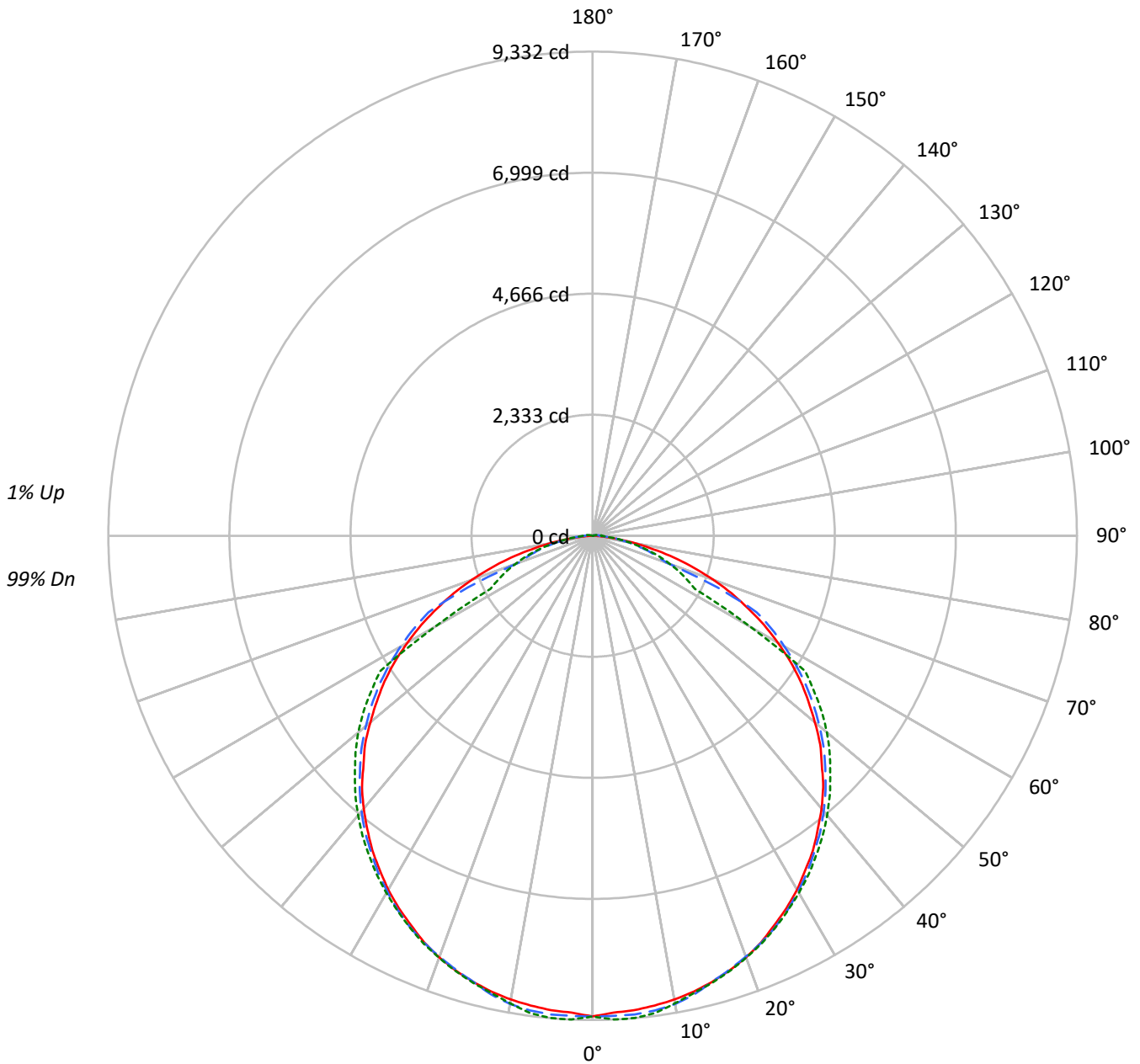
Test Method: LM-79-08  
Report Number: P830141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24SE-NL-UNV-L740-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26010.0 lumens  
Efficiency: N/A  
Efficacy: 188.5 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°	15823	15823	15823
5°	15736	15878	15998
10°	15740	15889	15870
15°	15737	15735	15769
20°	15716	15692	15730
25°	15608	15688	15700
30°	15536	15616	15677
35°	15435	15520	15666
40°	15302	15447	15675
45°	15081	15309	15643
50°	14854	15157	15658
55°	14570	14948	15485
60°	14082	14582	12055
65°	13323	14098	8114
70°	12323	7484	7874
75°	10749	7112	7520
80°	8266	6524	6891
85°	4172	6594	6751



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	880.1	3.4
10°-20°	2520.0	9.7
20°-30°	3834.4	14.7
30°-40°	4662.1	17.9
40°-50°	4902.0	18.8
50°-60°	4476.1	17.2
60°-70°	2869.4	11.0
70°-80°	1355.5	5.2
80°-90°	375.9	1.4
90°-100°	99.5	0.4
100°-110°	27.3	0.1
110°-120°	7.6	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°	7234.6	27.8
0°-40°	11896.7	45.7
0°-60°	21274.9	81.8
0°-90°	25875.7	99.5
90°-120°	134.3	0.5
90°-150°	134.3	0.5
90°-180°	134.0	0.5
0°-180°	26010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9264	9264	9264	9264	9264	
5°	9178	9214	9261	9311	9331	873
15°	8900	8966	8898	8911	8918	2513
25°	8282	8295	8324	8338	8331	3822
35°	7403	7359	7443	7534	7513	4626
45°	6244	6232	6338	6488	6476	4826
55°	4893	4856	5020	5187	5200	4364
65°	3297	3297	3488	2001	2008	3268
75°	1629	1660	1078	1135	1140	1717
85°	213	270	336	364	344	315
90°	0	91	150	177	174	9
95°	5	47	107	145	145	3
105°	8	18	26	26	24	8
115°	8	11	16	11	2	6
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°	9264.1	9264.1	9264.1	9264.1	9264.1
2.5°	9199.0	9230.0	9264.1	9308.0	9332.2
5°	9177.9	9213.7	9260.8	9311.2	9330.7
7.5°	9132.4	9182.7	9228.3	9264.1	9275.5
10°	9075.5	9135.7	9161.7	9158.4	9150.3
12.5°	8999.1	9062.6	9054.5	9017.0	9023.5
15°	8899.9	8966.5	8898.4	8911.3	8917.8
17.5°	8782.9	8847.9	8768.3	8794.3	8796.0
20°	8646.4	8695.1	8633.3	8654.5	8654.5
22.5°	8482.2	8516.3	8490.3	8504.9	8508.2
25°	8282.2	8295.2	8324.4	8337.5	8331.0
27.5°	8090.5	8074.2	8131.1	8161.9	8145.6
30°	7877.5	7851.5	7918.1	7968.5	7949.1
32.5°	7633.6	7617.4	7693.8	7753.9	7742.5
35°	7402.8	7358.9	7443.4	7534.5	7513.3
37.5°	7129.7	7103.7	7199.6	7295.6	7284.2
40°	6863.1	6819.2	6928.1	7041.9	7030.5
42.5°	6577.1	6524.9	6643.7	6780.3	6767.2
45°	6243.7	6232.3	6338.0	6487.6	6476.2
47.5°	5948.0	5891.1	6038.9	6183.6	6196.7
50°	5590.2	5569.2	5704.2	5879.7	5892.6
52.5°	5240.9	5226.2	5367.5	5544.8	5567.5
55°	4892.9	4855.5	5019.7	5187.2	5200.2
57.5°	4520.8	4481.7	4649.2	4831.3	4858.8
60°	4122.4	4085.0	4268.7	4437.8	3529.1
62.5°	3724.1	3698.1	3890.0	2755.4	2220.6
65°	3296.6	3296.6	3488.3	2001.0	2007.6
67.5°	2896.8	2870.8	2601.0	1797.8	1797.8
70°	2467.6	2477.4	1498.7	1575.3	1576.8
72.5°	2036.8	2072.6	1294.0	1355.6	1358.9
75°	1628.8	1659.8	1077.7	1134.7	1139.5
77.5°	1196.5	920.1	866.4	910.4	912.0
80°	840.4	580.3	663.3	705.4	700.6
82.5°	490.8	406.3	486.0	517.0	515.3
85°	212.9	269.9	336.5	364.2	344.5
87.5°	68.2	167.5	209.6	226.0	224.2
90°	0.0	91.0	149.6	177.1	174.0
92.5°	0.0	71.4	130.1	162.6	164.2
95°	4.8	47.2	107.4	144.7	144.7
97.5°	3.3	34.1	76.4	113.8	117.0
100°	3.3	27.5	50.4	81.2	83.0
102.5°	8.1	22.7	30.8	52.0	53.7
105°	8.1	17.9	26.0	26.0	24.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.8	13.1	17.9	13.1	1.5
115°	8.1	11.4	16.2	11.4	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°	8.1	16.2	22.7	14.6	4.8
110°	9.8	14.6	19.4	13.1	1.5



(END OF REPORT)