

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: P830149

Luminaire Tested: **OHBL-24SE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830149
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-L940-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

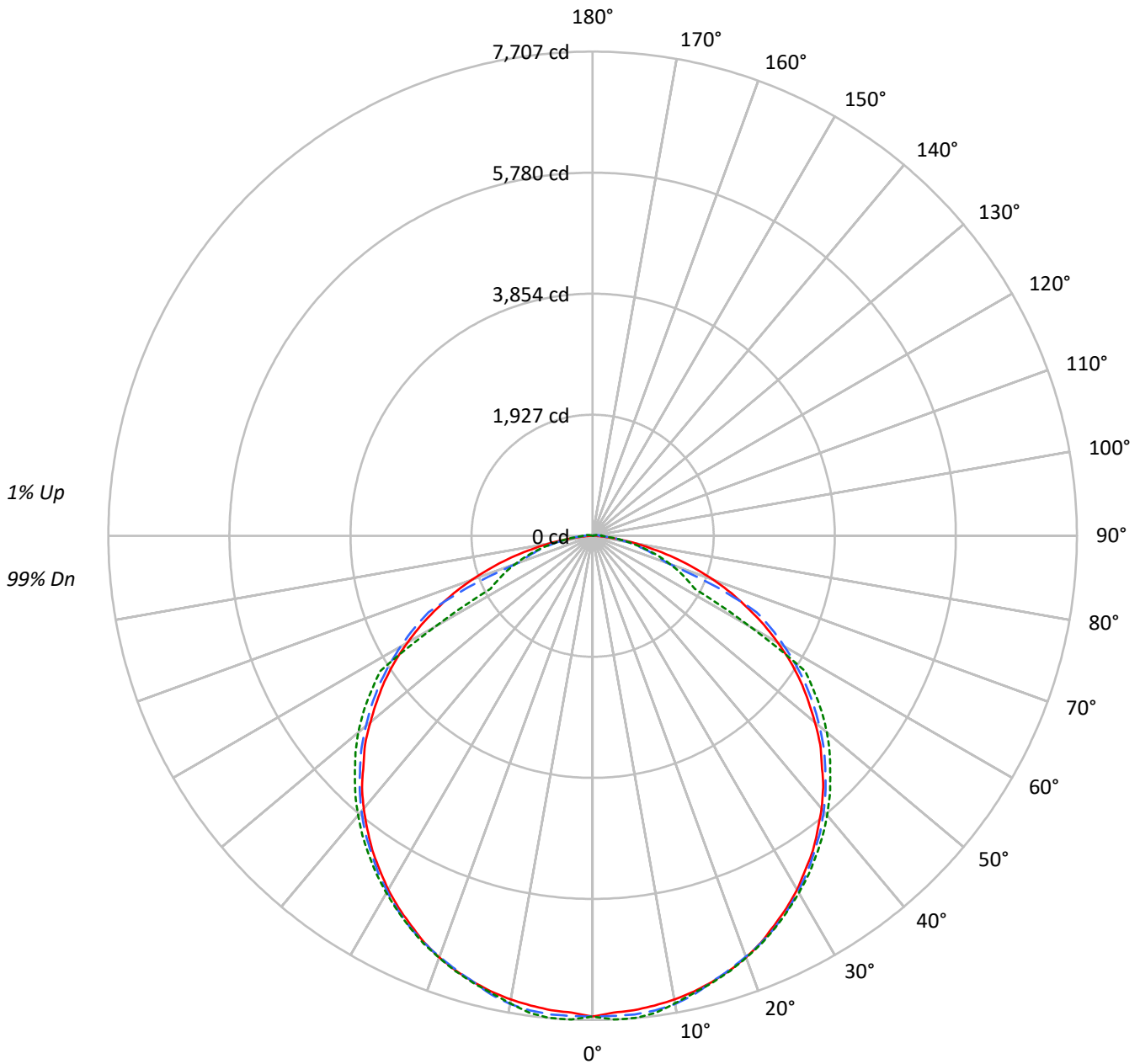
Lumens per Lamp: N/A
Luminaire Lumens: 21481.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

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°	13068	13068	13068
5°	12996	13113	13212
10°	12999	13123	13106
15°	12997	12995	13023
20°	12979	12960	12991
25°	12891	12956	12966
30°	12831	12897	12947
35°	12748	12818	12938
40°	12638	12757	12946
45°	12455	12643	12919
50°	12268	12518	12931
55°	12033	12345	12789
60°	11630	12043	9956
65°	11003	11643	6701
70°	10177	6181	6503
75°	8877	5873	6210
80°	6826	5388	5691
85°	3445	5446	5577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.9	3.4
10°-20°	2081.2	9.7
20°-30°	3166.8	14.7
30°-40°	3850.3	17.9
40°-50°	4048.5	18.8
50°-60°	3696.7	17.2
60°-70°	2369.8	11.0
70°-80°	1119.4	5.2
80°-90°	310.4	1.4
90°-100°	82.2	0.4
100°-110°	22.5	0.1
110°-120°	6.2	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°	5974.9	27.8
0°-40°	9825.2	45.7
0°-60°	17570.4	81.8
0°-90°	21370.0	99.5
90°-120°	111.0	0.5
90°-150°	111.0	0.5
90°-180°	111.0	0.5
0°-180°	21481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7651	7651	7651	7651	7651	
5°	7580	7609	7648	7690	7706	721
15°	7350	7405	7349	7360	7365	2075
25°	6840	6851	6875	6886	6880	3156
35°	6114	6078	6147	6222	6205	3821
45°	5156	5147	5234	5358	5348	3986
55°	4041	4010	4146	4284	4295	3604
65°	2723	2723	2881	1653	1658	2699
75°	1345	1371	890	937	941	1418
85°	176	223	278	301	285	260
90°	0	75	124	146	144	8
95°	4	39	89	120	120	2
105°	7	15	22	22	20	7
115°	7	9	13	9	1	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°	7651.0	7651.0	7651.0	7651.0	7651.0
2.5°	7597.3	7622.8	7651.0	7687.2	7707.3
5°	7579.8	7609.3	7648.3	7689.9	7706.0
7.5°	7542.2	7583.7	7621.4	7651.0	7660.4
10°	7495.2	7544.9	7566.4	7563.7	7557.0
12.5°	7432.1	7484.5	7477.9	7446.9	7452.3
15°	7350.2	7405.2	7348.9	7359.6	7365.0
17.5°	7253.6	7307.3	7241.5	7263.0	7264.4
20°	7140.9	7181.1	7130.1	7147.5	7147.5
22.5°	7005.3	7033.4	7011.9	7024.0	7026.7
25°	6840.1	6850.8	6874.9	6885.7	6880.3
27.5°	6681.8	6668.3	6715.3	6740.7	6727.2
30°	6505.8	6484.3	6539.3	6581.0	6564.9
32.5°	6304.4	6291.0	6354.1	6403.7	6394.4
35°	6113.8	6077.5	6147.3	6222.5	6205.0
37.5°	5888.2	5866.8	5945.9	6025.2	6015.9
40°	5668.1	5631.8	5721.8	5815.7	5806.4
42.5°	5431.8	5388.8	5486.8	5599.7	5588.9
45°	5156.5	5147.1	5234.4	5357.9	5348.5
47.5°	4912.3	4865.3	4987.4	5106.9	5117.7
50°	4616.8	4599.5	4710.9	4855.9	4866.6
52.5°	4328.3	4316.2	4432.9	4579.3	4598.1
55°	4040.9	4010.1	4145.6	4283.9	4294.7
57.5°	3733.6	3701.3	3839.6	3990.0	4012.8
60°	3404.6	3373.7	3525.4	3665.1	2914.6
62.5°	3075.7	3054.2	3212.7	2275.6	1834.0
65°	2722.6	2722.6	2880.9	1652.6	1658.0
67.5°	2392.4	2371.0	2148.1	1484.7	1484.7
70°	2037.9	2046.0	1237.7	1301.0	1302.2
72.5°	1682.2	1711.7	1068.7	1119.6	1122.3
75°	1345.2	1370.7	890.0	937.1	941.1
77.5°	988.1	759.9	715.5	751.9	753.2
80°	694.0	479.3	547.8	582.6	578.6
82.5°	405.4	335.6	401.4	427.0	425.6
85°	175.8	222.9	277.9	300.8	284.6
87.5°	56.3	138.3	173.1	186.6	185.2
90°	0.0	75.2	123.5	146.3	143.7
92.5°	0.0	59.0	107.5	134.3	135.6
95°	4.0	38.9	88.7	119.5	119.5
97.5°	2.7	28.1	63.1	94.0	96.7
100°	2.7	22.7	41.6	67.1	68.5
102.5°	6.7	18.8	25.4	42.9	44.3
105°	6.7	14.8	21.5	21.5	20.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	10.8	14.8	10.8	1.3
115°	6.7	9.4	13.4	9.4	1.3
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°	6.7	13.4	18.8	12.1	4.0
110°	8.1	12.1	16.1	10.8	1.3



(END OF REPORT)