

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: P830140

Luminaire Tested: **OHBL-24SE-NL-UNV-L735-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830140
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-L735-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

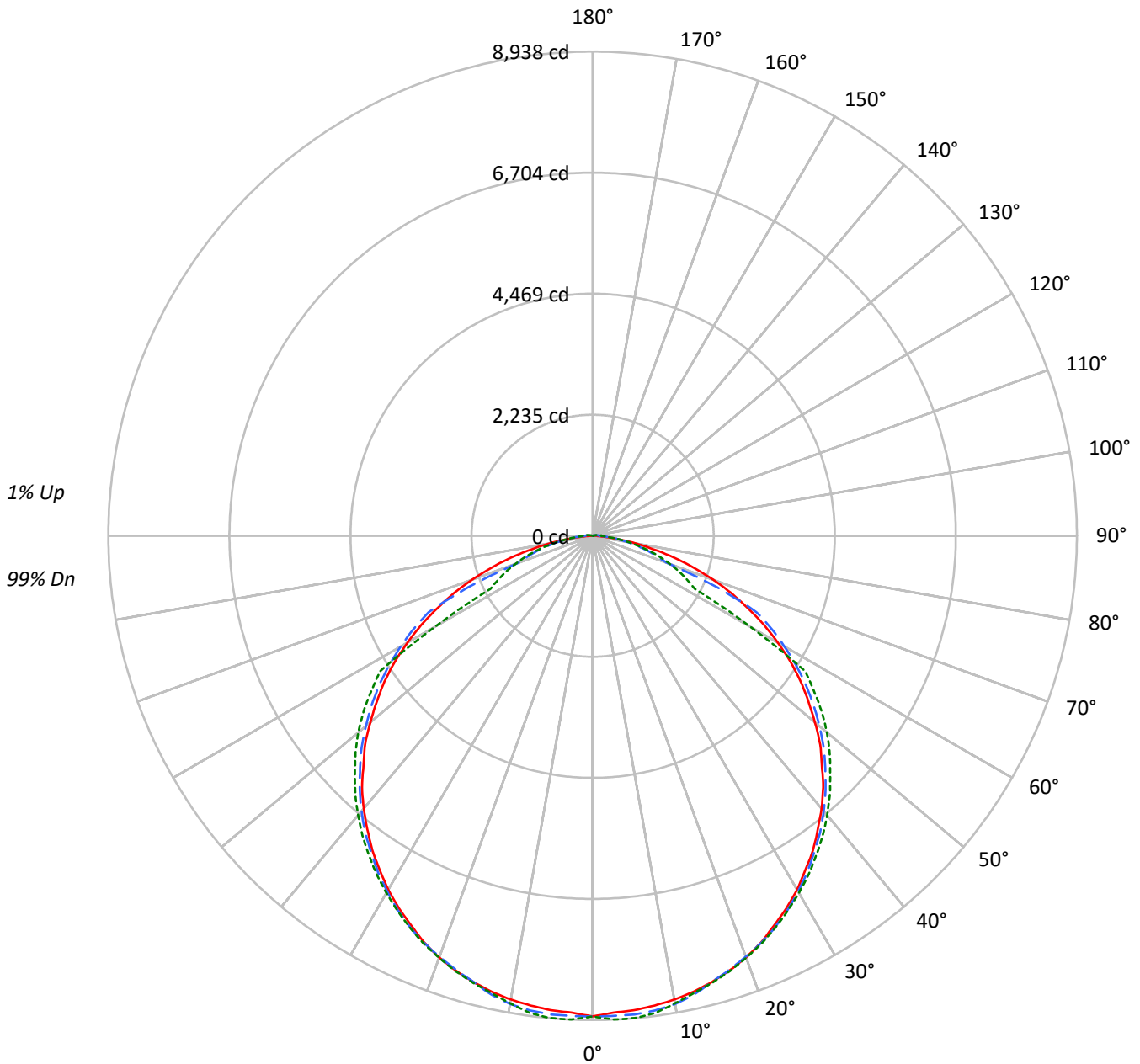
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24912.0 lumens
Efficiency: N/A
Efficacy: 180.5 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 (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	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°	15155	15155	15155
5°	15071	15208	15322
10°	15076	15219	15200
15°	15073	15070	15103
20°	15052	15030	15066
25°	14949	15026	15037
30°	14880	14957	15015
35°	14784	14865	15004
40°	14656	14795	15014
45°	14445	14663	14983
50°	14227	14517	14997
55°	13955	14317	14831
60°	13487	13966	11546
65°	12761	13503	7771
70°	11802	7168	7542
75°	10295	6812	7202
80°	7917	6249	6601
85°	3996	6316	6467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.0	3.4
10°-20°	2413.7	9.7
20°-30°	3672.6	14.7
30°-40°	4465.3	17.9
40°-50°	4695.1	18.8
50°-60°	4287.2	17.2
60°-70°	2748.3	11.0
70°-80°	1298.3	5.2
80°-90°	360.0	1.4
90°-100°	95.3	0.4
100°-110°	26.1	0.1
110°-120°	7.2	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°	6929.2	27.8
0°-40°	11394.5	45.7
0°-60°	20376.8	81.8
0°-90°	24783.3	99.5
90°-120°	128.7	0.5
90°-150°	128.7	0.5
90°-180°	129.0	0.5
0°-180°	24912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8873	8873	8873	8873	8873	
5°	8790	8825	8870	8918	8937	836
15°	8524	8588	8523	8535	8541	2407
25°	7933	7945	7973	7986	7979	3660
35°	7090	7048	7129	7216	7196	4431
45°	5980	5969	6070	6214	6203	4622
55°	4686	4650	4808	4968	4981	4179
65°	3158	3158	3341	1917	1923	3130
75°	1560	1590	1032	1087	1091	1644
85°	204	258	322	349	330	301
90°	0	87	143	170	167	9
95°	5	45	103	139	139	3
105°	8	17	25	25	23	8
115°	8	11	16	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



TEST NUMBER: P830140

CATALOG NUMBER: OHBL-24SE-NL-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8873.0	8873.0	8873.0	8873.0	8873.0
2.5°	8810.7	8840.4	8873.0	8915.0	8938.3
5°	8790.4	8824.7	8869.9	8918.2	8936.8
7.5°	8746.9	8795.0	8838.7	8873.0	8883.9
10°	8692.4	8750.0	8774.9	8771.8	8764.1
12.5°	8619.2	8680.0	8672.2	8636.3	8642.6
15°	8524.2	8588.0	8522.7	8535.1	8541.4
17.5°	8412.1	8474.4	8398.1	8423.0	8424.7
20°	8281.4	8328.1	8268.9	8289.2	8289.2
22.5°	8124.2	8156.8	8131.9	8145.9	8149.0
25°	7932.6	7945.0	7973.0	7985.5	7979.3
27.5°	7749.0	7733.3	7787.9	7817.4	7801.7
30°	7544.9	7520.0	7583.8	7632.1	7613.5
32.5°	7311.3	7295.9	7369.0	7426.6	7415.7
35°	7090.3	7048.3	7129.2	7216.4	7196.1
37.5°	6828.7	6803.8	6895.6	6987.6	6976.7
40°	6573.4	6531.3	6635.7	6744.6	6733.8
42.5°	6299.4	6249.5	6363.2	6494.1	6481.6
45°	5980.1	5969.2	6070.5	6213.7	6202.8
47.5°	5696.9	5642.4	5784.0	5922.6	5935.1
50°	5354.2	5334.1	5463.4	5631.5	5643.9
52.5°	5019.6	5005.6	5140.9	5310.7	5332.5
55°	4686.3	4650.5	4807.8	4968.2	4980.7
57.5°	4329.9	4292.5	4452.9	4627.3	4653.7
60°	3948.3	3912.6	4088.5	4250.5	3380.1
62.5°	3566.9	3542.0	3725.8	2639.0	2126.9
65°	3157.5	3157.5	3341.1	1916.6	1922.8
67.5°	2774.5	2749.6	2491.2	1721.9	1721.9
70°	2363.4	2372.8	1435.4	1508.8	1510.2
72.5°	1950.8	1985.1	1239.4	1298.4	1301.6
75°	1560.0	1589.7	1032.2	1086.8	1091.4
77.5°	1145.9	881.2	829.8	872.0	873.5
80°	804.9	555.8	635.3	675.7	671.1
82.5°	470.1	389.2	465.5	495.2	493.5
85°	203.9	258.5	322.3	348.8	330.0
87.5°	65.3	160.4	200.8	216.4	214.8
90°	0.0	87.2	143.2	169.6	166.7
92.5°	0.0	68.4	124.6	155.8	157.3
95°	4.6	45.2	102.9	138.6	138.6
97.5°	3.1	32.6	73.2	109.0	112.1
100°	3.1	26.4	48.3	77.8	79.5
102.5°	7.7	21.8	29.5	49.8	51.4
105°	7.7	17.1	24.9	24.9	23.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.4	12.5	17.1	12.5	1.5
115°	7.7	10.9	15.5	10.9	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°	7.7	15.5	21.8	14.0	4.6
110°	9.4	14.0	18.6	12.5	1.5



(END OF REPORT)