

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: P830106

Luminaire Tested: **OHBL-24SE-MCL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-MCL-UNV-L750-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

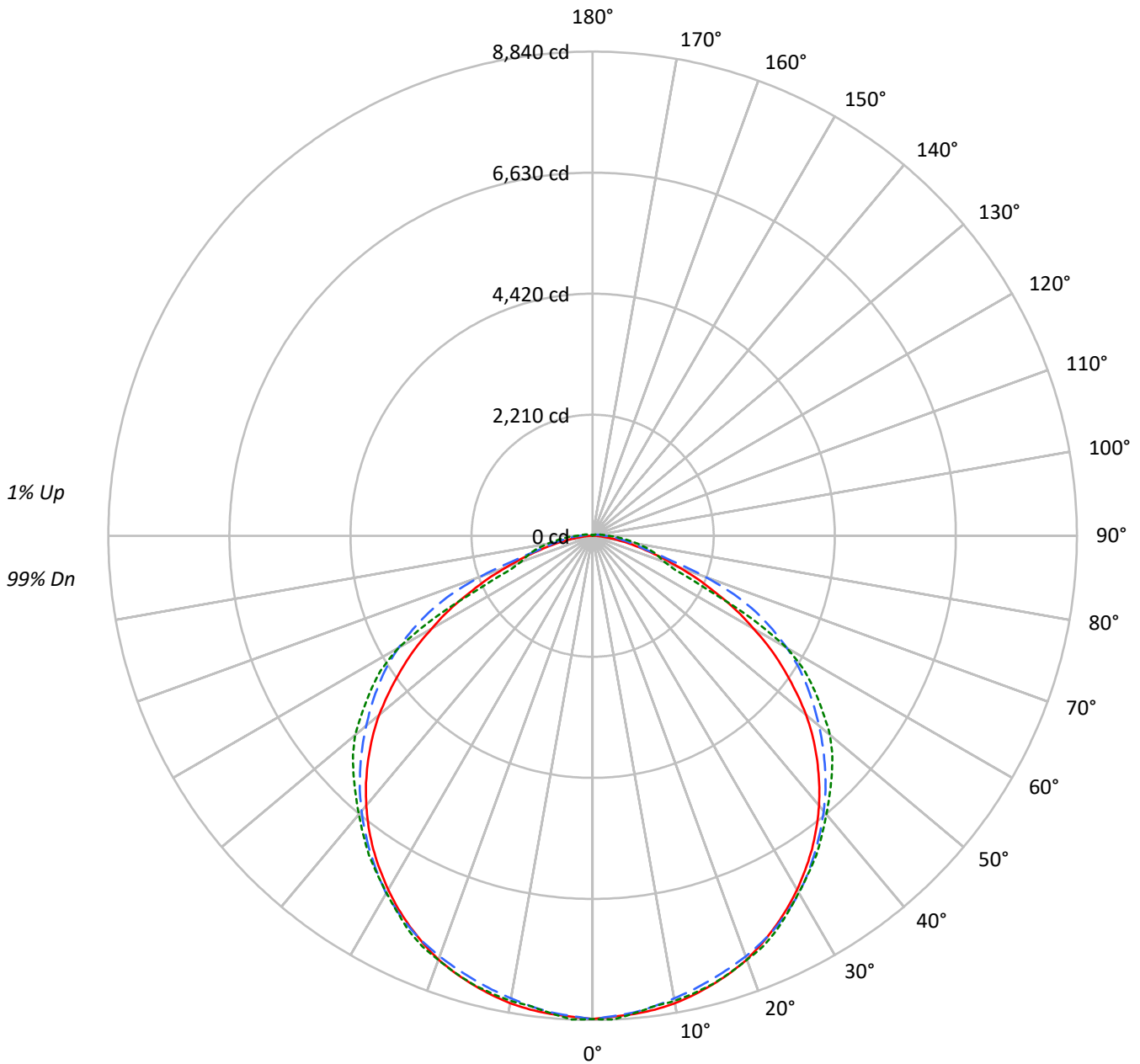
Lumens per Lamp: N/A
Luminaire Lumens: 24936.0 lumens
Efficiency: N/A
Efficacy: 180.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	110	110	110	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15069	15069	15069
5°	14970	14843	14871
10°	14915	14612	14697
15°	14820	14437	14589
20°	14726	14324	14450
25°	14548	14211	14312
30°	14355	14035	14031
35°	14124	13761	13870
40°	13824	13478	13655
45°	13407	13151	13552
50°	12843	12779	13429
55°	11947	12412	12910
60°	10773	11878	11915
65°	9241	10899	7535
70°	7444	8491	5447
75°	5581	5025	5505
80°	3885	4159	5220
85°	2211	3776	4829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.9	3.3
10°-20°	2385.4	9.6
20°-30°	3643.3	14.6
30°-40°	4420.5	17.7
40°-50°	4633.1	18.6
50°-60°	4198.3	16.8
60°-70°	2814.8	11.3
70°-80°	1264.0	5.1
80°-90°	458.7	1.8
90°-100°	138.1	0.6
100°-110°	65.1	0.3
110°-120°	32.7	0.1
120°-130°	18.0	0.1
130°-140°	12.4	0.0
140°-150°	8.3	0.0
150°-160°	6.2	0.0
160°-170°	4.0	0.0
170°-180°	1.3	0.0
0°-30°	6860.5	27.5
0°-40°	11281.1	45.2
0°-60°	20112.5	80.7
0°-90°	24650.0	98.9
90°-120°	235.9	0.9
90°-150°	274.6	1.1
90°-180°	286.0	1.1
0°-180°	24936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8822	8822	8822	8822	8822	
5°	8765	8796	8734	8761	8750	834
15°	8480	8447	8387	8461	8472	2394
25°	7878	7844	7899	7972	7949	3632
35°	6983	7000	7071	7146	7118	4364
45°	5795	5890	5999	6152	6172	4464
55°	4264	4470	4775	4966	4955	3807
65°	2503	2894	3286	2773	2264	2494
75°	985	1429	1051	1075	1146	1076
85°	170	325	417	504	528	207
90°	1	108	216	270	283	10
95°	1	68	148	180	185	2
105°	5	29	73	88	92	6
115°	10	15	37	47	50	9
125°	9	10	23	27	28	9
135°	12	13	14	20	22	9
145°	12	13	13	14	15	8
155°	13	14	14	14	13	6
165°	14	14	14	14	14	4
175°	14	14	13	12	12	1
180°	13	13	13	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8822.4	8822.4	8822.4	8822.4	8822.4
2.5°	8786.7	8823.7	8777.7	8827.5	8840.2
5°	8765.0	8795.6	8734.4	8761.1	8749.7
7.5°	8725.4	8735.6	8662.9	8684.6	8661.6
10°	8666.7	8661.6	8576.2	8618.3	8623.4
12.5°	8580.0	8564.7	8488.2	8551.9	8553.2
15°	8480.5	8447.3	8387.4	8461.4	8471.6
17.5°	8365.7	8322.3	8282.8	8378.5	8363.1
20°	8231.8	8180.7	8173.1	8277.7	8239.4
22.5°	8065.9	8026.4	8044.2	8143.7	8119.5
25°	7878.4	7844.0	7898.8	7971.5	7948.6
27.5°	7680.7	7660.3	7722.8	7778.9	7734.3
30°	7463.8	7452.3	7535.2	7581.2	7525.0
32.5°	7227.8	7231.6	7310.7	7373.2	7320.9
35°	6982.9	6999.5	7070.9	7146.2	7118.1
37.5°	6713.7	6750.7	6822.2	6907.6	6878.3
40°	6429.3	6482.8	6561.9	6665.3	6638.5
42.5°	6121.8	6189.4	6291.5	6406.3	6403.8
45°	5795.3	5889.7	5999.4	6152.4	6171.6
47.5°	5455.9	5561.8	5700.9	5905.0	5934.3
50°	5087.3	5219.9	5393.4	5638.4	5656.2
52.5°	4676.5	4857.7	5087.3	5322.0	5300.3
55°	4264.5	4469.9	4774.7	4966.1	4954.6
57.5°	3853.7	4084.6	4454.6	4591.1	4589.8
60°	3394.5	3686.6	4091.0	4194.3	4092.3
62.5°	2969.7	3283.5	3703.2	3627.9	3278.4
65°	2502.8	2894.4	3286.1	2773.3	2264.3
67.5°	2088.2	2496.4	2791.1	1899.4	1626.5
70°	1671.1	2121.4	2176.3	1409.6	1390.5
72.5°	1301.2	1780.8	1501.4	1206.8	1268.0
75°	984.8	1428.7	1051.1	1075.4	1145.5
77.5°	718.2	1097.1	817.7	942.7	1000.1
80°	493.7	776.9	667.2	792.2	831.7
82.5°	310.0	512.8	534.5	637.8	678.6
85°	169.7	325.3	417.1	503.9	528.1
87.5°	70.2	196.4	318.9	389.1	409.5
90°	1.3	108.4	215.6	270.4	283.2
92.5°	1.3	82.9	176.0	218.1	227.1
95°	1.3	67.6	148.0	179.9	185.0
97.5°	2.6	53.6	123.7	149.3	154.4
100°	3.8	44.6	103.3	125.0	128.8
102.5°	5.1	35.7	86.7	104.6	108.4
105°	5.1	29.3	72.7	88.0	91.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.9	17.9	43.4	54.9	57.4
115°	10.2	15.3	37.0	47.2	49.8
117.5°	10.2	12.8	31.9	39.5	42.1
120°	10.2	11.5	28.1	34.4	35.7
122.5°	10.2	10.2	24.2	30.6	31.9
125°	8.9	10.2	23.0	26.8	28.1
127.5°	10.2	10.2	20.4	24.2	25.5
130°	10.2	11.5	17.9	23.0	23.0
132.5°	11.5	12.8	16.6	21.7	21.7
135°	11.5	12.8	14.0	20.4	21.7
137.5°	12.8	12.8	12.8	19.1	20.4
140°	12.8	12.8	11.5	16.6	17.9
142.5°	11.5	12.8	11.5	15.3	16.6
145°	11.5	12.8	12.8	14.0	15.3
147.5°	12.8	12.8	12.8	12.8	14.0
150°	12.8	12.8	12.8	12.8	12.8
152.5°	12.8	12.8	12.8	12.8	12.8
155°	12.8	14.0	14.0	14.0	12.8
157.5°	12.8	14.0	14.0	14.0	14.0
160°	12.8	14.0	14.0	14.0	14.0
162.5°	14.0	14.0	14.0	14.0	14.0
165°	14.0	14.0	14.0	14.0	14.0
167.5°	14.0	15.3	14.0	14.0	14.0
170°	14.0	14.0	14.0	12.8	12.8
172.5°	14.0	14.0	14.0	12.8	12.8
175°	14.0	14.0	12.8	11.5	11.5
177.5°	15.3	14.0	12.8	11.5	10.2
180°	12.8	12.8	12.8	12.8	12.8



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	6.4	24.2	62.5	75.3	77.8
110°	7.7	20.4	52.3	63.8	66.3



(END OF REPORT)