

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: P830038

Luminaire Tested: **OHBL-24HE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

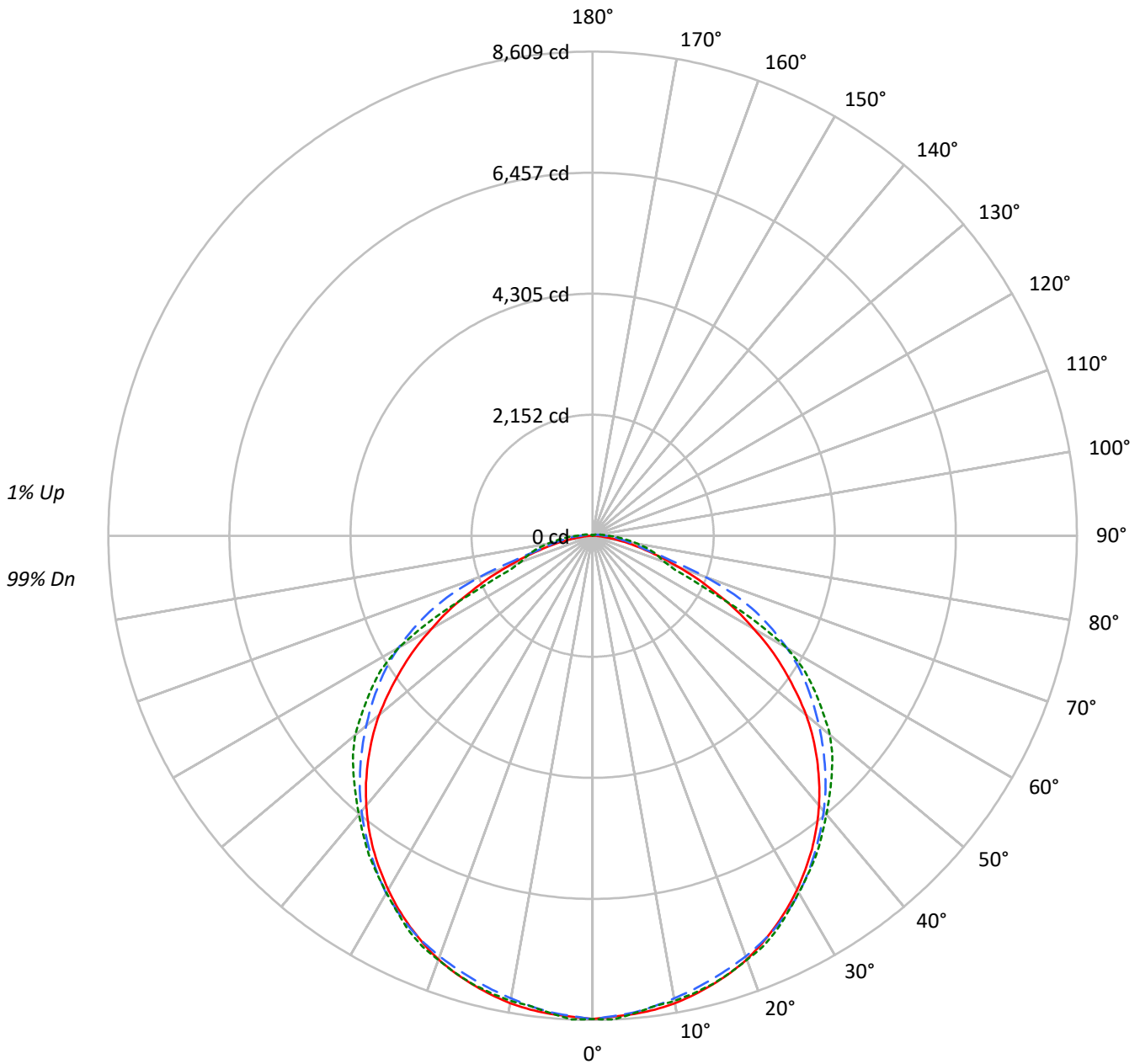
Test Method: LM-79-08  
Report Number: P830038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-MCL-UNV-L850-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24284.0 lumens  
Efficiency: N/A  
Efficacy: 182.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P830038  
CATALOG NUMBER: OHBL-24HE-MCL-UNV-L850-CD

### 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°	13588	13588	13588
5°	13499	13390	13418
10°	13449	13187	13269
15°	13364	13036	13181
20°	13278	12940	13064
25°	13118	12844	12948
30°	12944	12692	12703
35°	12736	12452	12568
40°	12465	12203	12384
45°	12089	11915	12303
50°	11581	11588	12205
55°	10772	11266	11750
60°	9714	10794	10863
65°	8333	9919	6884
70°	6712	7744	4991
75°	5032	4596	5066
80°	3503	3822	4837
85°	1993	3502	4533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	810.1	3.3
10°-20°	2323.0	9.6
20°-30°	3548.0	14.6
30°-40°	4304.9	17.7
40°-50°	4512.0	18.6
50°-60°	4088.5	16.8
60°-70°	2741.2	11.3
70°-80°	1230.9	5.1
80°-90°	446.7	1.8
90°-100°	134.4	0.6
100°-110°	63.4	0.3
110°-120°	31.8	0.1
120°-130°	17.5	0.1
130°-140°	12.1	0.0
140°-150°	8.1	0.0
150°-160°	6.0	0.0
160°-170°	3.9	0.0
170°-180°	1.2	0.0
0°-30°	6681.2	27.5
0°-40°	10986.1	45.2
0°-60°	19586.7	80.7
0°-90°	24005.5	98.9
90°-120°	229.7	0.9
90°-150°	267.4	1.1
90°-180°	279.0	1.1
0°-180°	24284.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8592	8592	8592	8592	8592	
5°	8536	8566	8506	8532	8521	812
15°	8259	8226	8168	8240	8250	2332
25°	7672	7639	7692	7763	7741	3537
35°	6800	6816	6886	6959	6932	4250
45°	5644	5736	5842	5992	6010	4348
55°	4153	4353	4650	4836	4825	3707
65°	2437	2819	3200	2701	2205	2429
75°	959	1391	1024	1047	1116	1048
85°	165	317	406	491	514	202
90°	1	106	210	263	276	10
95°	1	66	144	175	180	2
105°	5	29	71	86	89	6
115°	10	15	36	46	48	9
125°	9	10	22	26	27	9
135°	11	12	14	20	21	9
145°	11	12	12	14	15	7
155°	12	14	14	14	12	6
165°	14	14	14	14	14	4
175°	14	14	12	11	11	1
180°	12	12	12	12	12	



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CATALOG NUMBER: OHBL-24HE-MCL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8591.7	8591.7	8591.7	8591.7	8591.7
2.5°	8556.9	8592.9	8548.2	8596.7	8609.1
5°	8535.8	8565.6	8506.0	8532.1	8520.9
7.5°	8497.3	8507.2	8436.4	8457.5	8435.2
10°	8440.1	8435.2	8351.9	8392.9	8397.9
12.5°	8355.7	8340.8	8266.2	8328.3	8329.6
15°	8258.8	8226.5	8168.1	8240.1	8250.1
17.5°	8147.0	8104.7	8066.2	8159.4	8144.5
20°	8016.5	7966.8	7959.4	8061.2	8024.0
22.5°	7855.0	7816.5	7833.9	7930.8	7907.2
25°	7672.4	7638.9	7692.3	7763.1	7740.7
27.5°	7479.8	7460.0	7520.8	7575.5	7532.0
30°	7268.7	7257.5	7338.2	7382.9	7328.3
32.5°	7038.8	7042.6	7119.6	7180.5	7129.5
35°	6800.3	6816.5	6886.0	6959.3	6932.0
37.5°	6538.2	6574.2	6643.8	6727.0	6698.4
40°	6261.2	6313.3	6390.4	6491.0	6464.9
42.5°	5961.8	6027.6	6127.0	6238.8	6236.3
45°	5643.7	5735.7	5842.5	5991.6	6010.2
47.5°	5313.3	5416.4	5551.8	5750.6	5779.1
50°	4954.3	5083.5	5252.4	5490.9	5508.3
52.5°	4554.2	4730.7	4954.3	5182.8	5161.7
55°	4153.0	4353.0	4649.9	4836.2	4825.1
57.5°	3753.0	3977.8	4338.1	4471.0	4469.8
60°	3305.7	3590.2	3984.0	4084.7	3985.3
62.5°	2892.1	3197.7	3606.4	3533.1	3192.7
65°	2437.4	2818.8	3200.1	2700.7	2205.1
67.5°	2033.6	2431.2	2718.1	1849.8	1583.9
70°	1627.4	2065.9	2119.4	1372.7	1354.1
72.5°	1267.1	1734.2	1462.2	1175.2	1234.8
75°	959.1	1391.4	1023.6	1047.3	1115.6
77.5°	699.4	1068.4	796.3	918.1	974.0
80°	480.8	756.6	649.7	771.5	810.0
82.5°	301.9	499.4	520.5	621.1	660.9
85°	165.2	316.8	406.2	490.7	514.3
87.5°	68.3	191.3	310.6	378.9	398.8
90°	1.2	105.6	209.9	263.4	275.8
92.5°	1.2	80.7	171.4	212.4	221.1
95°	1.2	65.8	144.1	175.2	180.1
97.5°	2.5	52.2	120.5	145.3	150.3
100°	3.7	43.5	100.6	121.7	125.5
102.5°	5.0	34.8	84.5	101.9	105.6
105°	5.0	28.6	70.8	85.7	89.4



TEST NUMBER: P830038

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.7	17.4	42.2	53.4	55.9
115°	9.9	14.9	36.0	46.0	48.4
117.5°	9.9	12.4	31.1	38.5	41.0
120°	9.9	11.2	27.3	33.5	34.8
122.5°	9.9	9.9	23.6	29.8	31.1
125°	8.7	9.9	22.4	26.1	27.3
127.5°	9.9	9.9	19.9	23.6	24.8
130°	9.9	11.2	17.4	22.4	22.4
132.5°	11.2	12.4	16.1	21.1	21.1
135°	11.2	12.4	13.7	19.9	21.1
137.5°	12.4	12.4	12.4	18.6	19.9
140°	12.4	12.4	11.2	16.1	17.4
142.5°	11.2	12.4	11.2	14.9	16.1
145°	11.2	12.4	12.4	13.7	14.9
147.5°	12.4	12.4	12.4	12.4	13.7
150°	12.4	12.4	12.4	12.4	12.4
152.5°	12.4	12.4	12.4	12.4	12.4
155°	12.4	13.7	13.7	13.7	12.4
157.5°	12.4	13.7	13.7	13.7	13.7
160°	12.4	13.7	13.7	13.7	13.7
162.5°	13.7	13.7	13.7	13.7	13.7
165°	13.7	13.7	13.7	13.7	13.7
167.5°	13.7	14.9	13.7	13.7	13.7
170°	13.7	13.7	13.7	12.4	12.4
172.5°	13.7	13.7	13.7	12.4	12.4
175°	13.7	13.7	12.4	11.2	11.2
177.5°	14.9	13.7	12.4	11.2	9.9
180°	12.4	12.4	12.4	12.4	12.4



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	6.2	23.6	60.9	73.3	75.8
110°	7.5	19.9	50.9	62.1	64.6



(END OF REPORT)