

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: P830024

Luminaire Tested: **OHBL-24HE-A-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830024
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-A-UNV-L835-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

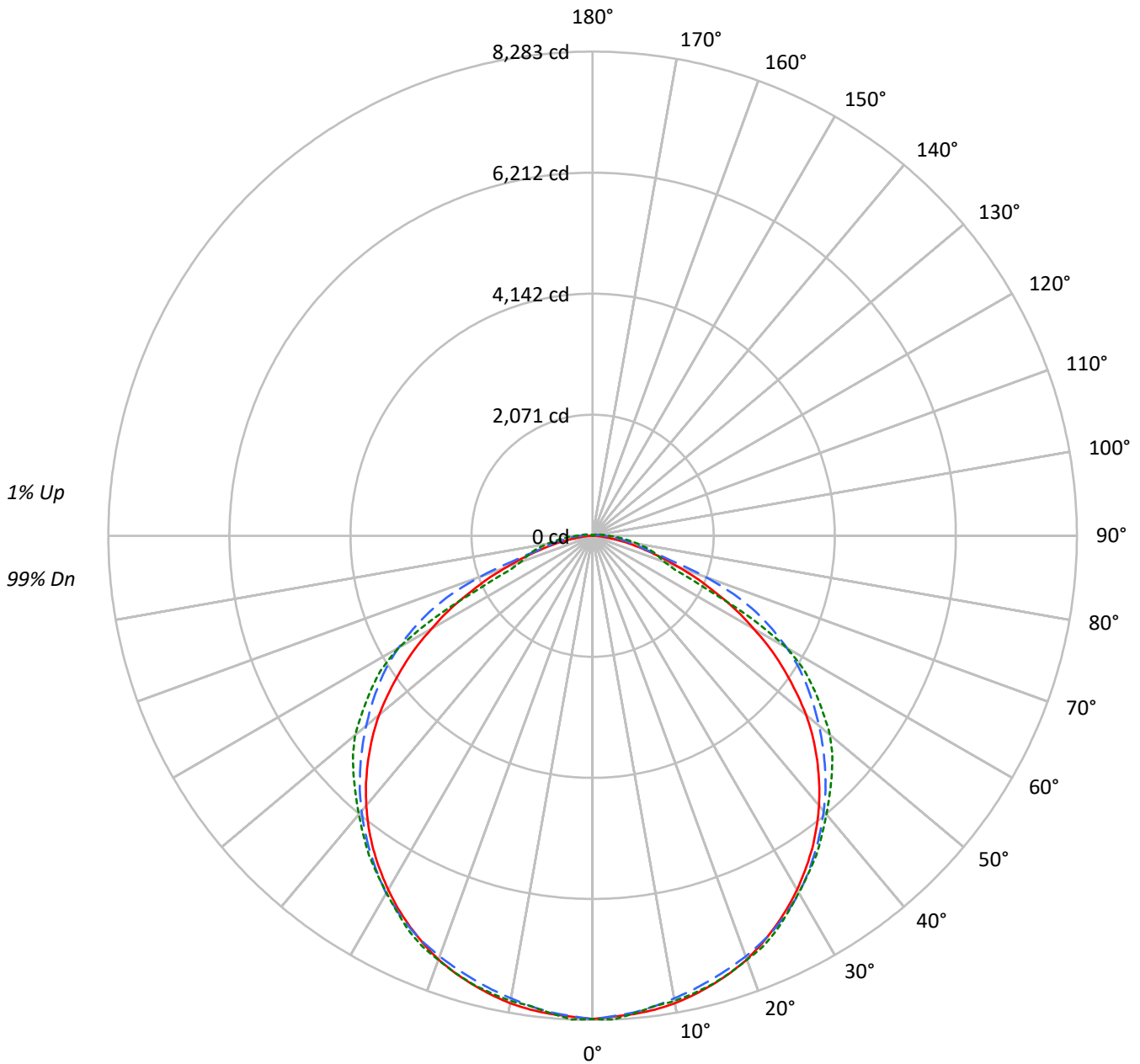
Lumens per Lamp: N/A
Luminaire Lumens: 23365.0 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{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°	13073	13073	13073
5°	12988	12883	12910
10°	12940	12688	12767
15°	12858	12542	12682
20°	12776	12451	12569
25°	12622	12358	12458
30°	12454	12212	12223
35°	12254	11980	12093
40°	11993	11741	11915
45°	11632	11464	11837
50°	11143	11149	11743
55°	10365	10839	11305
60°	9346	10386	10452
65°	8018	9544	6624
70°	6458	7450	4803
75°	4842	4423	4874
80°	3370	3677	4653
85°	1918	3370	4361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.5	3.3
10°-20°	2235.1	9.6
20°-30°	3413.7	14.6
30°-40°	4142.0	17.7
40°-50°	4341.2	18.6
50°-60°	3933.8	16.8
60°-70°	2637.5	11.3
70°-80°	1184.3	5.1
80°-90°	429.8	1.8
90°-100°	129.4	0.6
100°-110°	61.0	0.3
110°-120°	30.6	0.1
120°-130°	16.9	0.1
130°-140°	11.6	0.0
140°-150°	7.8	0.0
150°-160°	5.8	0.0
160°-170°	3.7	0.0
170°-180°	1.2	0.0
0°-30°	6428.3	27.5
0°-40°	10570.4	45.2
0°-60°	18845.4	80.7
0°-90°	23097.0	98.9
90°-120°	221.0	0.9
90°-150°	257.3	1.1
90°-180°	268.0	1.1
0°-180°	23365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8267	8267	8267	8267	8267	
5°	8213	8242	8184	8209	8198	781
15°	7946	7915	7859	7928	7938	2244
25°	7382	7350	7401	7469	7448	3403
35°	6543	6558	6625	6696	6670	4090
45°	5430	5519	5621	5765	5783	4183
55°	3996	4188	4474	4653	4642	3567
65°	2345	2712	3079	2598	2122	2337
75°	923	1339	985	1008	1073	1008
85°	159	305	391	472	495	194
90°	1	102	202	253	265	9
95°	1	63	139	168	173	2
105°	5	28	68	82	86	6
115°	10	14	35	44	47	9
125°	8	10	22	25	26	8
135°	11	12	13	19	20	9
145°	11	12	12	13	14	7
155°	12	13	13	13	12	6
165°	13	13	13	13	13	4
175°	13	13	12	11	11	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8266.6	8266.6	8266.6	8266.6	8266.6
2.5°	8233.1	8267.8	8224.7	8271.3	8283.3
5°	8212.8	8241.5	8184.1	8209.2	8198.4
7.5°	8175.7	8185.3	8117.1	8137.5	8116.0
10°	8120.7	8116.0	8035.9	8075.3	8080.1
12.5°	8039.5	8025.1	7953.4	8013.2	8014.4
15°	7946.2	7915.1	7859.0	7928.3	7937.9
17.5°	7838.6	7798.0	7761.0	7850.6	7836.3
20°	7713.1	7665.3	7658.2	7756.2	7720.3
22.5°	7557.8	7520.7	7537.4	7630.7	7608.0
25°	7382.0	7349.8	7401.2	7469.3	7447.8
27.5°	7196.8	7177.7	7236.2	7288.8	7247.0
30°	6993.6	6982.8	7060.5	7103.5	7051.0
32.5°	6772.5	6776.0	6850.1	6908.7	6859.7
35°	6543.0	6558.5	6625.4	6696.0	6669.7
37.5°	6290.8	6325.4	6392.4	6472.4	6444.9
40°	6024.2	6074.4	6148.5	6245.3	6220.2
42.5°	5736.1	5799.5	5895.1	6002.7	6000.3
45°	5430.2	5518.6	5621.4	5764.8	5782.8
47.5°	5112.2	5211.4	5341.7	5533.0	5560.4
50°	4766.8	4891.1	5053.6	5283.1	5299.9
52.5°	4381.9	4551.6	4766.8	4986.7	4966.4
55°	3995.8	4188.3	4473.9	4653.2	4642.5
57.5°	3610.9	3827.3	4173.9	4301.8	4300.6
60°	3180.6	3454.4	3833.3	3930.1	3834.5
62.5°	2782.6	3076.7	3469.9	3399.4	3071.9
65°	2345.1	2712.1	3079.0	2598.5	2121.6
67.5°	1956.7	2339.2	2615.3	1779.8	1524.0
70°	1565.8	1987.8	2039.1	1320.8	1302.9
72.5°	1219.2	1668.6	1406.8	1130.7	1188.1
75°	922.8	1338.7	984.9	1007.6	1073.4
77.5°	672.9	1027.9	766.2	883.3	937.1
80°	462.6	727.9	625.1	742.3	779.3
82.5°	290.5	480.5	500.8	597.6	635.9
85°	159.0	304.8	390.9	472.1	494.8
87.5°	65.7	184.1	298.8	364.6	383.7
90°	1.2	101.6	202.0	253.4	265.4
92.5°	1.2	77.7	164.9	204.4	212.8
95°	1.2	63.3	138.7	168.5	173.3
97.5°	2.4	50.2	115.9	139.8	144.6
100°	3.6	41.8	96.8	117.1	120.7
102.5°	4.8	33.5	81.3	98.0	101.6
105°	4.8	27.5	68.1	82.5	86.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.4	16.7	40.6	51.4	53.8
115°	9.6	14.3	34.7	44.2	46.6
117.5°	9.6	12.0	29.9	37.1	39.4
120°	9.6	10.8	26.3	32.3	33.5
122.5°	9.6	9.6	22.7	28.7	29.9
125°	8.4	9.6	21.5	25.1	26.3
127.5°	9.6	9.6	19.1	22.7	23.9
130°	9.6	10.8	16.7	21.5	21.5
132.5°	10.8	12.0	15.5	20.3	20.3
135°	10.8	12.0	13.1	19.1	20.3
137.5°	12.0	12.0	12.0	17.9	19.1
140°	12.0	12.0	10.8	15.5	16.7
142.5°	10.8	12.0	10.8	14.3	15.5
145°	10.8	12.0	12.0	13.1	14.3
147.5°	12.0	12.0	12.0	12.0	13.1
150°	12.0	12.0	12.0	12.0	12.0
152.5°	12.0	12.0	12.0	12.0	12.0
155°	12.0	13.1	13.1	13.1	12.0
157.5°	12.0	13.1	13.1	13.1	13.1
160°	12.0	13.1	13.1	13.1	13.1
162.5°	13.1	13.1	13.1	13.1	13.1
165°	13.1	13.1	13.1	13.1	13.1
167.5°	13.1	14.3	13.1	13.1	13.1
170°	13.1	13.1	13.1	12.0	12.0
172.5°	13.1	13.1	13.1	12.0	12.0
175°	13.1	13.1	12.0	10.8	10.8
177.5°	14.3	13.1	12.0	10.8	9.6
180°	12.0	12.0	12.0	12.0	12.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.0	22.7	58.6	70.5	72.9
110°	7.2	19.1	49.0	59.8	62.2



(END OF REPORT)