

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: P830036

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830036
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-L835-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

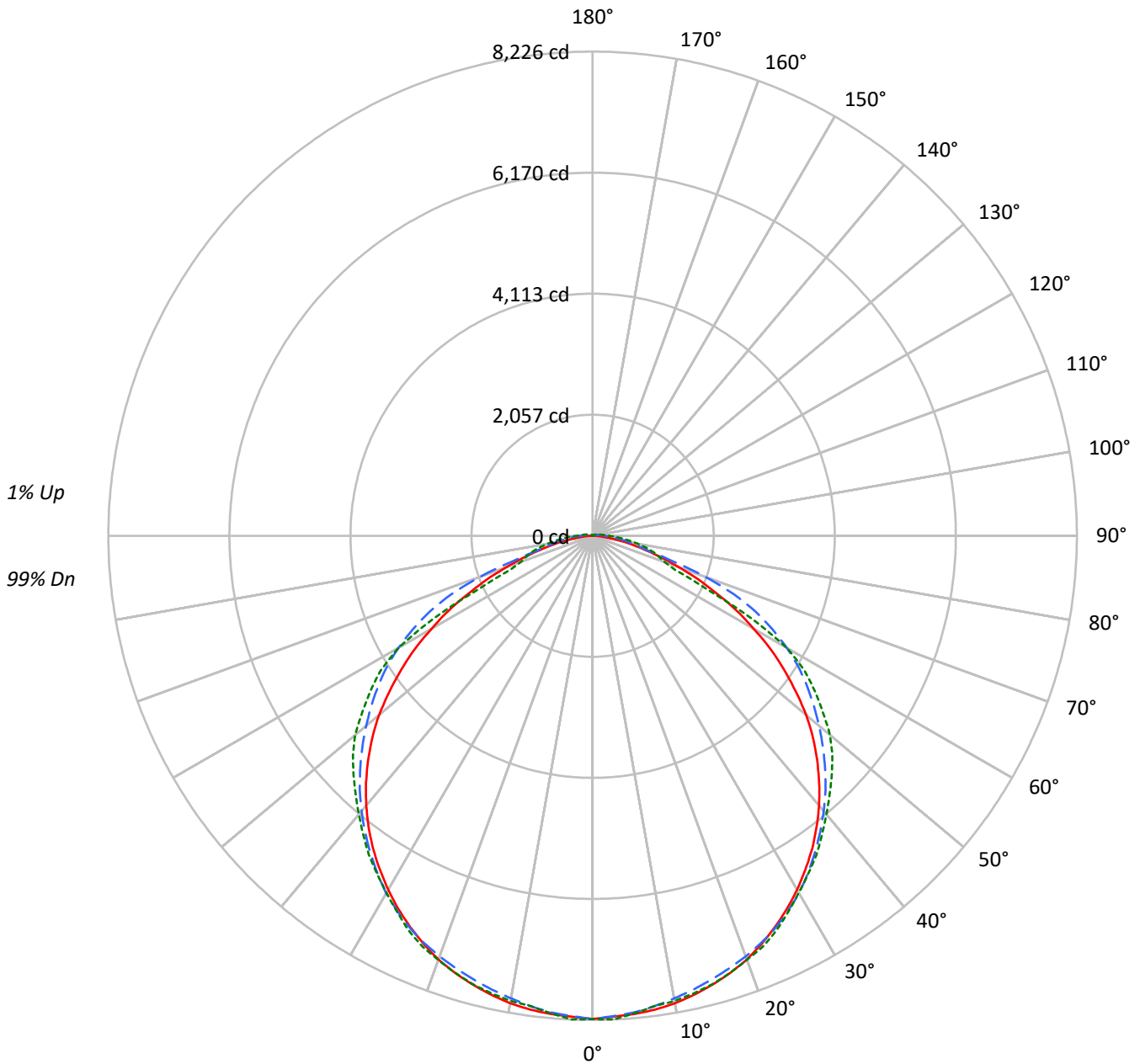
Lumens per Lamp: N/A
Luminaire Lumens: 23204.1 lumens
Efficiency: N/A
Efficacy: 174.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	12983	12983	12983
5°	12898	12795	12822
10°	12851	12601	12679
15°	12770	12456	12594
20°	12688	12365	12483
25°	12535	12273	12372
30°	12368	12128	12138
35°	12169	11898	12009
40°	11911	11660	11833
45°	11552	11385	11756
50°	11066	11072	11663
55°	10293	10765	11227
60°	9282	10314	10380
65°	7963	9478	6578
70°	6413	7399	4769
75°	4808	4392	4841
80°	3347	3652	4622
85°	1905	3347	4332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.1	3.3
10°-20°	2219.7	9.6
20°-30°	3390.2	14.6
30°-40°	4113.5	17.7
40°-50°	4311.3	18.6
50°-60°	3906.7	16.8
60°-70°	2619.3	11.3
70°-80°	1176.2	5.1
80°-90°	426.8	1.8
90°-100°	128.5	0.6
100°-110°	60.6	0.3
110°-120°	30.4	0.1
120°-130°	16.8	0.1
130°-140°	11.5	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°	6384.0	27.5
0°-40°	10497.5	45.2
0°-60°	18715.6	80.7
0°-90°	22937.9	98.9
90°-120°	219.5	0.9
90°-150°	255.5	1.1
90°-180°	266.0	1.1
0°-180°	23204.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8210	8210	8210	8210	8210	
5°	8156	8185	8128	8153	8142	776
15°	7892	7861	7805	7874	7883	2228
25°	7331	7299	7350	7418	7396	3379
35°	6498	6513	6580	6650	6624	4061
45°	5393	5481	5583	5725	5743	4154
55°	3968	4159	4443	4621	4610	3542
65°	2329	2693	3058	2581	2107	2321
75°	916	1330	978	1001	1066	1001
85°	158	303	388	469	491	193
90°	1	101	201	252	264	9
95°	1	63	138	167	172	2
105°	5	27	68	82	86	5
115°	10	14	34	44	46	9
125°	8	10	21	25	26	8
135°	11	12	13	19	20	8
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°	8209.6	8209.6	8209.6	8209.6	8209.6
2.5°	8176.4	8210.8	8168.0	8214.3	8226.2
5°	8156.2	8184.7	8127.7	8152.6	8141.9
7.5°	8119.4	8128.9	8061.2	8081.4	8060.0
10°	8064.8	8060.0	7980.5	8019.7	8024.4
12.5°	7984.1	7969.8	7898.6	7957.9	7959.1
15°	7891.5	7860.6	7804.8	7873.7	7883.2
17.5°	7784.6	7744.3	7707.5	7796.5	7782.3
20°	7660.0	7612.5	7605.4	7702.7	7667.1
22.5°	7505.7	7468.9	7485.5	7578.1	7555.5
25°	7331.2	7299.1	7350.2	7417.8	7396.5
27.5°	7147.2	7128.2	7186.4	7238.6	7197.0
30°	6945.4	6934.7	7011.9	7054.6	7002.4
32.5°	6725.8	6729.4	6802.9	6861.1	6812.4
35°	6497.9	6513.3	6579.8	6649.8	6623.7
37.5°	6247.4	6281.8	6348.3	6427.8	6400.5
40°	5982.7	6032.6	6106.2	6202.3	6177.4
42.5°	5696.6	5759.5	5854.5	5961.3	5959.0
45°	5392.7	5480.6	5582.7	5725.1	5742.9
47.5°	5077.0	5175.5	5304.9	5494.8	5522.1
50°	4733.9	4857.4	5018.8	5246.7	5263.4
52.5°	4351.7	4520.3	4733.9	4952.3	4932.2
55°	3968.3	4159.4	4443.1	4621.2	4610.5
57.5°	3586.1	3800.9	4145.2	4272.2	4271.0
60°	3158.7	3430.6	3806.8	3903.0	3808.0
62.5°	2763.4	3055.5	3446.0	3376.0	3050.7
65°	2329.0	2693.4	3057.8	2580.6	2107.0
67.5°	1943.2	2323.0	2597.3	1767.5	1513.5
70°	1555.0	1974.1	2025.1	1311.7	1293.9
72.5°	1210.8	1657.1	1397.2	1122.9	1179.9
75°	916.4	1329.5	978.1	1000.7	1066.0
77.5°	668.3	1020.9	760.9	877.2	930.6
80°	459.4	722.9	620.8	737.2	774.0
82.5°	288.5	477.2	497.4	593.5	631.5
85°	157.9	302.7	388.2	468.9	491.4
87.5°	65.3	182.8	296.8	362.0	381.0
90°	1.2	100.9	200.6	251.7	263.5
92.5°	1.2	77.2	163.8	203.0	211.3
95°	1.2	62.9	137.7	167.4	172.1
97.5°	2.4	49.9	115.1	138.9	143.6
100°	3.6	41.5	96.2	116.3	119.9
102.5°	4.7	33.2	80.7	97.3	100.9
105°	4.7	27.3	67.7	81.9	85.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.3	16.6	40.4	51.0	53.4
115°	9.5	14.2	34.4	43.9	46.3
117.5°	9.5	11.9	29.7	36.8	39.2
120°	9.5	10.7	26.1	32.1	33.2
122.5°	9.5	9.5	22.6	28.5	29.7
125°	8.3	9.5	21.4	24.9	26.1
127.5°	9.5	9.5	19.0	22.6	23.7
130°	9.5	10.7	16.6	21.4	21.4
132.5°	10.7	11.9	15.4	20.2	20.2
135°	10.7	11.9	13.1	19.0	20.2
137.5°	11.9	11.9	11.9	17.8	19.0
140°	11.9	11.9	10.7	15.4	16.6
142.5°	10.7	11.9	10.7	14.2	15.4
145°	10.7	11.9	11.9	13.1	14.2
147.5°	11.9	11.9	11.9	11.9	13.1
150°	11.9	11.9	11.9	11.9	11.9
152.5°	11.9	11.9	11.9	11.9	11.9
155°	11.9	13.1	13.1	13.1	11.9
157.5°	11.9	13.1	13.1	13.1	13.1
160°	11.9	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	14.2	13.1	13.1	13.1
170°	13.1	13.1	13.1	11.9	11.9
172.5°	13.1	13.1	13.1	11.9	11.9
175°	13.1	13.1	11.9	10.7	10.7
177.5°	14.2	13.1	11.9	10.7	9.5
180°	11.9	11.9	11.9	11.9	11.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.9	22.6	58.2	70.0	72.4
110°	7.1	19.0	48.7	59.4	61.7



(END OF REPORT)