

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: P830023

Luminaire Tested: **OHBL-24HE-A-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830023
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-L830-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

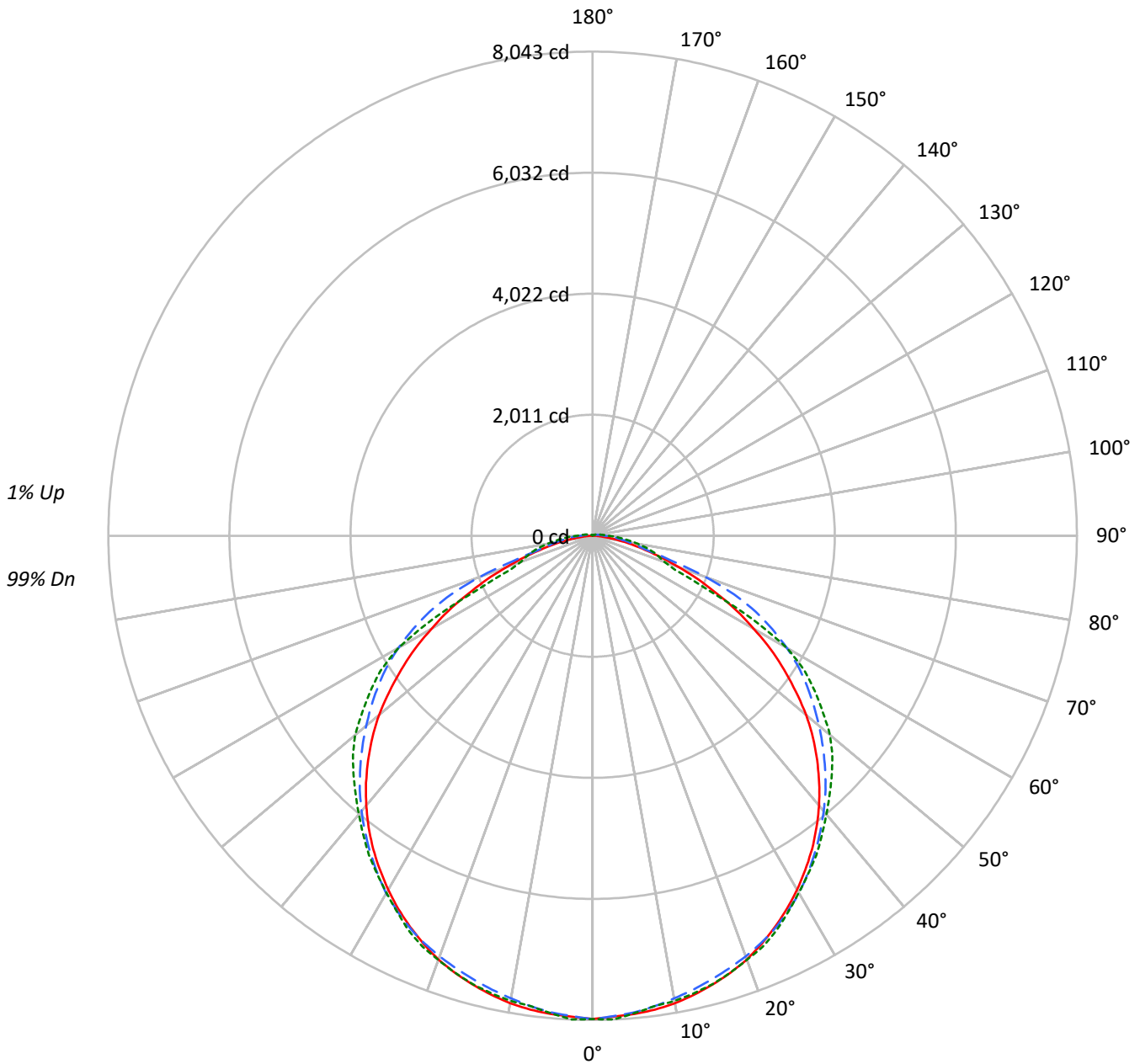
Lumens per Lamp: N/A
Luminaire Lumens: 22688.0 lumens
Efficiency: N/A
Efficacy: 170.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{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				20				20	
RC	80				70				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				99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83				83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70				70
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59				59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51				51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38				38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34				34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30				30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12695	12695	12695
5°	12611	12510	12536
10°	12565	12321	12397
15°	12486	12179	12314
20°	12406	12090	12205
25°	12256	12000	12097
30°	12093	11858	11868
35°	11899	11633	11742
40°	11646	11401	11570
45°	11295	11132	11494
50°	10820	10826	11403
55°	10064	10525	10978
60°	9076	10085	10149
65°	7785	9267	6432
70°	6271	7235	4663
75°	4701	4295	4733
80°	3273	3571	4518
85°	1863	3272	4235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.9	3.3
10°-20°	2170.4	9.6
20°-30°	3314.8	14.6
30°-40°	4022.0	17.7
40°-50°	4215.5	18.6
50°-60°	3819.8	16.8
60°-70°	2561.1	11.3
70°-80°	1150.0	5.1
80°-90°	417.3	1.8
90°-100°	125.6	0.6
100°-110°	59.3	0.3
110°-120°	29.7	0.1
120°-130°	16.4	0.1
130°-140°	11.3	0.0
140°-150°	7.6	0.0
150°-160°	5.6	0.0
160°-170°	3.6	0.0
170°-180°	1.1	0.0
0°-30°	6242.1	27.5
0°-40°	10264.1	45.2
0°-60°	18299.4	80.7
0°-90°	22427.8	98.9
90°-120°	214.6	0.9
90°-150°	249.8	1.1
90°-180°	260.0	1.1
0°-180°	22688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8027	8027	8027	8027	8027	
5°	7975	8003	7947	7971	7961	758
15°	7716	7686	7631	7699	7708	2179
25°	7168	7137	7187	7253	7232	3304
35°	6353	6368	6434	6502	6476	3971
45°	5273	5359	5458	5598	5615	4062
55°	3880	4067	4344	4518	4508	3463
65°	2277	2634	2990	2523	2060	2269
75°	896	1300	956	978	1042	979
85°	154	296	380	458	480	188
90°	1	99	196	246	258	9
95°	1	62	135	164	168	2
105°	5	27	66	80	84	5
115°	9	14	34	43	45	9
125°	8	9	21	24	26	8
135°	10	12	13	19	20	8
145°	10	12	12	13	14	7
155°	12	13	13	13	12	5
165°	13	13	13	13	13	4
175°	13	13	12	10	10	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8027.0	8027.0	8027.0	8027.0	8027.0
2.5°	7994.5	8028.2	7986.4	8031.7	8043.3
5°	7974.8	8002.7	7946.9	7971.3	7960.9
7.5°	7938.8	7948.1	7882.0	7901.7	7880.8
10°	7885.4	7880.8	7803.0	7841.3	7846.0
12.5°	7806.5	7792.6	7722.9	7781.0	7782.1
15°	7716.0	7685.8	7631.3	7698.6	7707.9
17.5°	7611.5	7572.1	7536.1	7623.1	7609.2
20°	7489.7	7443.2	7436.3	7531.4	7496.6
22.5°	7338.8	7302.8	7319.0	7409.6	7387.5
25°	7168.2	7136.8	7186.7	7252.9	7232.0
27.5°	6988.3	6969.7	7026.6	7077.6	7037.0
30°	6790.9	6780.5	6855.9	6897.7	6846.7
32.5°	6576.2	6579.7	6651.7	6708.5	6661.0
35°	6353.4	6368.5	6433.5	6501.9	6476.4
37.5°	6108.5	6142.1	6207.1	6284.9	6258.2
40°	5849.7	5898.4	5970.4	6064.4	6040.0
42.5°	5569.9	5631.5	5724.3	5828.8	5826.4
45°	5272.8	5358.7	5458.5	5597.8	5615.2
47.5°	4964.1	5060.4	5186.9	5372.6	5399.3
50°	4628.7	4749.4	4907.2	5130.1	5146.3
52.5°	4254.9	4419.7	4628.7	4842.2	4822.5
55°	3880.0	4066.9	4344.3	4518.4	4508.0
57.5°	3506.3	3716.4	4053.0	4177.2	4176.0
60°	3088.5	3354.3	3722.2	3816.2	3723.4
62.5°	2702.0	2987.5	3369.4	3300.9	2982.9
65°	2277.2	2633.5	2989.8	2523.2	2060.1
67.5°	1900.0	2271.4	2539.5	1728.2	1479.8
70°	1520.4	1930.2	1980.1	1282.5	1265.1
72.5°	1183.9	1620.3	1366.1	1098.0	1153.7
75°	896.0	1299.9	956.4	978.4	1042.3
77.5°	653.4	998.2	744.0	857.7	909.9
80°	449.2	706.8	607.0	720.8	756.7
82.5°	282.0	466.6	486.3	580.3	617.5
85°	154.4	296.0	379.5	458.5	480.5
87.5°	63.8	178.7	290.2	354.0	372.6
90°	1.2	98.7	196.1	246.1	257.7
92.5°	1.2	75.4	160.2	198.5	206.6
95°	1.2	61.5	134.6	163.7	168.3
97.5°	2.3	48.7	112.6	135.8	140.4
100°	3.5	40.6	94.0	113.7	117.2
102.5°	4.6	32.5	78.9	95.2	98.7
105°	4.6	26.7	66.2	80.1	83.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	16.2	39.5	49.9	52.2
115°	9.3	13.9	33.7	42.9	45.3
117.5°	9.3	11.6	29.0	36.0	38.3
120°	9.3	10.4	25.5	31.3	32.5
122.5°	9.3	9.3	22.1	27.9	29.0
125°	8.1	9.3	20.9	24.4	25.5
127.5°	9.3	9.3	18.6	22.1	23.2
130°	9.3	10.4	16.2	20.9	20.9
132.5°	10.4	11.6	15.1	19.7	19.7
135°	10.4	11.6	12.8	18.6	19.7
137.5°	11.6	11.6	11.6	17.4	18.6
140°	11.6	11.6	10.4	15.1	16.2
142.5°	10.4	11.6	10.4	13.9	15.1
145°	10.4	11.6	11.6	12.8	13.9
147.5°	11.6	11.6	11.6	11.6	12.8
150°	11.6	11.6	11.6	11.6	11.6
152.5°	11.6	11.6	11.6	11.6	11.6
155°	11.6	12.8	12.8	12.8	11.6
157.5°	11.6	12.8	12.8	12.8	12.8
160°	11.6	12.8	12.8	12.8	12.8
162.5°	12.8	12.8	12.8	12.8	12.8
165°	12.8	12.8	12.8	12.8	12.8
167.5°	12.8	13.9	12.8	12.8	12.8
170°	12.8	12.8	12.8	11.6	11.6
172.5°	12.8	12.8	12.8	11.6	11.6
175°	12.8	12.8	11.6	10.4	10.4
177.5°	13.9	12.8	11.6	10.4	9.3
180°	11.6	11.6	11.6	11.6	11.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.8	22.1	56.9	68.5	70.8
110°	7.0	18.6	47.6	58.0	60.4



(END OF REPORT)