

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: P830055

Luminaire Tested: **OHBL-24HE-N-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-N-UNV-L730-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

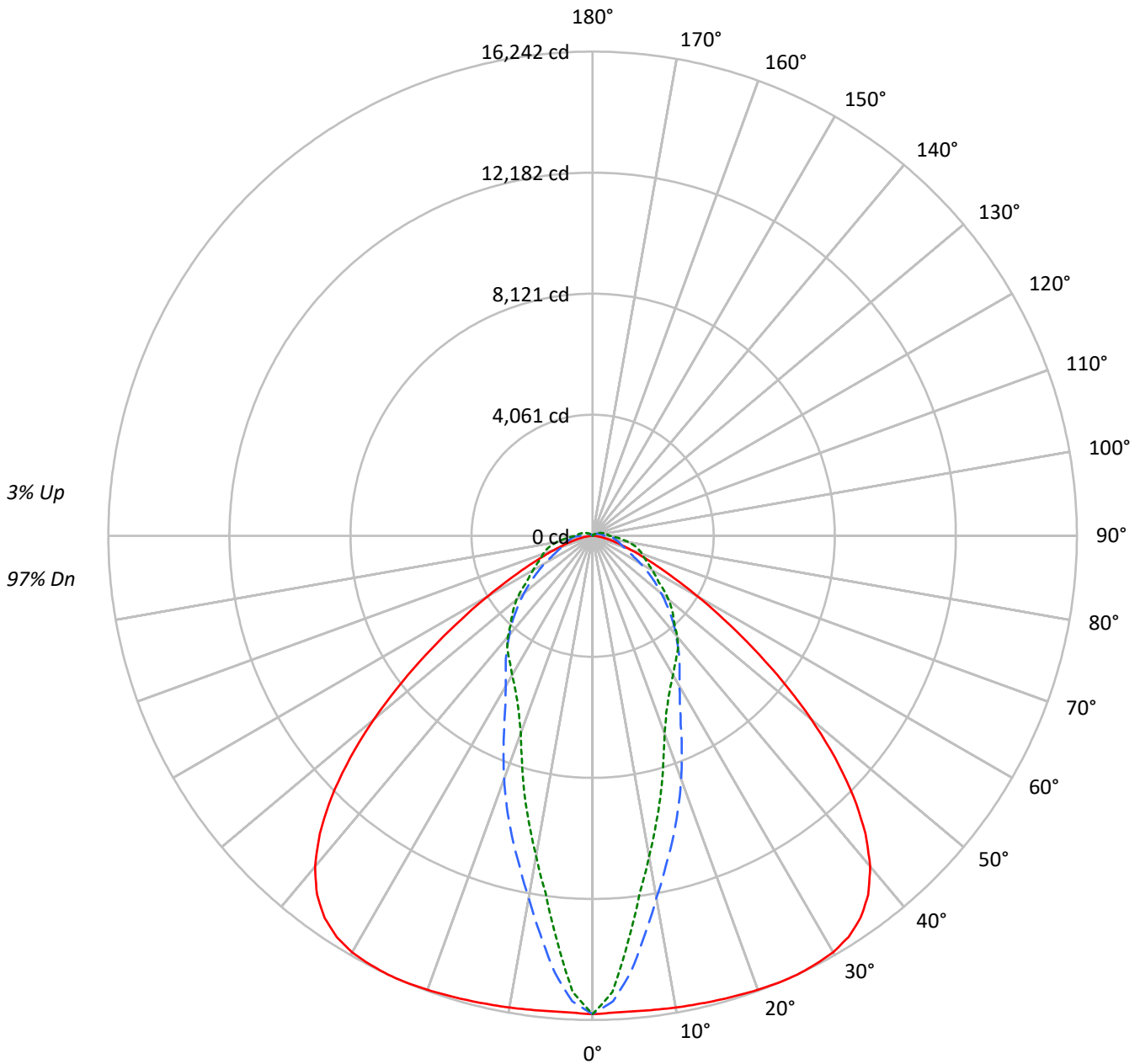
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23681.0 lumens
Efficiency: N/A
Efficacy: 178.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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

TEST NUMBER: P830055
CATALOG NUMBER: OHBL-24HE-N-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830055

CATALOG NUMBER: OHBL-24HE-N-UNV-L730-CD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25375	25375	25375
5°	25323	23119	21499
10°	25609	19483	17250
15°	26109	16670	14167
20°	26843	14102	11466
25°	27771	11678	10054
30°	28731	10066	9347
35°	29329	9179	8912
40°	28827	8296	8463
45°	26519	7503	7843
50°	22374	6634	7370
55°	17001	5816	6567
60°	11914	4994	6298
65°	8014	4307	6179
70°	5473	4051	6501
75°	3798	4190	6976
80°	2615	4663	7231
85°	1529	5885	7686



TEST NUMBER: P830055
 CATALOG NUMBER: OHBL-24HE-N-UNV-L730-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1350.7	5.7
10°-20°	3177.4	13.4
20°-30°	3982.8	16.8
30°-40°	4226.2	17.8
40°-50°	3821.1	16.1
50°-60°	2770.6	11.7
60°-70°	1738.7	7.3
70°-80°	1150.6	4.9
80°-90°	662.9	2.8
90°-100°	321.1	1.4
100°-110°	221.6	0.9
110°-120°	136.8	0.6
120°-130°	66.2	0.3
130°-140°	30.5	0.1
140°-150°	16.6	0.1
150°-160°	7.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8510.8	35.9
0°-40°	12737.0	53.8
0°-60°	19328.7	81.6
0°-90°	22880.9	96.6
90°-120°	679.6	2.9
90°-150°	792.9	3.3
90°-180°	800.0	3.4
0°-180°	23681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16045	16045	16045	16045	16045	
5°	16013	15602	14686	14005	13652	###
15°	16135	13151	10445	9289	8868	4576
25°	16242	10169	6994	6208	6011	7504
35°	15660	6760	5076	4917	4916	9735
45°	12380	4282	3679	3767	3832	9431
55°	6554	2654	2401	2604	2697	5922
65°	2344	1539	1390	1781	1979	2439
75°	724	829	933	1449	1536	807
85°	127	344	683	950	872	152
90°	0	144	396	557	562	8
95°	6	101	348	473	495	5
105°	12	67	254	336	345	12
115°	17	47	171	214	218	16
125°	18	24	87	110	108	16
135°	15	18	38	60	60	12
145°	18	20	23	35	34	11
155°	18	23	24	26	23	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830055

CATALOG NUMBER: OHBL-24HE-N-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16045.1	16045.1	16045.1	16045.1	16045.1
2.5°	16011.5	15919.9	15634.4	15460.3	15313.7
5°	16013.1	15602.3	14686.0	14004.9	13652.2
7.5°	16036.0	15122.8	13472.0	12477.9	12090.0
10°	16071.1	14528.7	12338.9	11279.1	10917.2
12.5°	16097.1	13859.9	11341.7	10252.9	9855.8
15°	16135.2	13151.3	10445.3	9289.3	8867.8
17.5°	16170.4	12484.0	9559.6	8351.7	7882.8
20°	16205.5	11764.7	8673.9	7429.3	7042.9
22.5°	16239.1	11005.7	7809.5	6713.1	6448.9
25°	16242.1	10168.9	6994.1	6207.6	6010.6
27.5°	16202.4	9301.5	6332.8	5784.6	5662.5
30°	16133.7	8460.1	5819.7	5479.2	5392.2
32.5°	15962.7	7601.9	5422.7	5184.5	5134.1
35°	15660.3	6760.4	5076.0	4917.2	4915.7
37.5°	15183.9	6013.7	4700.4	4672.9	4706.5
40°	14479.9	5360.1	4344.6	4417.9	4417.9
42.5°	13540.7	4792.0	4022.4	4097.2	4077.3
45°	12380.1	4282.0	3678.8	3767.3	3831.5
47.5°	11034.8	3833.0	3327.5	3498.6	3587.1
50°	9571.8	3405.4	3006.8	3225.2	3326.0
52.5°	8038.6	3009.9	2693.8	2944.2	3025.2
55°	6554.3	2654.1	2400.6	2603.7	2696.8
57.5°	5210.4	2315.1	2113.5	2305.9	2498.3
60°	4054.4	2023.4	1843.2	2118.1	2310.5
62.5°	3096.9	1763.8	1589.7	1942.5	2134.9
65°	2344.1	1539.3	1389.7	1780.6	1979.1
67.5°	1766.8	1345.4	1233.9	1663.0	1856.9
70°	1327.0	1157.5	1108.7	1589.7	1763.8
72.5°	980.4	985.0	1009.4	1525.6	1658.4
75°	723.8	829.2	933.1	1449.2	1536.3
77.5°	517.7	687.2	864.3	1357.6	1388.1
80°	358.9	560.4	792.6	1236.9	1211.0
82.5°	224.5	449.0	728.4	1104.1	1032.3
85°	126.7	343.6	682.6	949.9	872.0
87.5°	56.5	256.6	597.1	740.6	691.8
90°	0.0	143.5	395.5	557.4	562.0
92.5°	3.1	119.1	365.0	510.0	525.3
95°	6.1	100.8	348.2	473.4	494.8
97.5°	7.6	88.6	326.8	439.8	458.1
100°	9.2	79.4	300.8	404.7	419.9
102.5°	10.7	73.3	276.4	368.0	380.2
105°	12.2	67.2	253.5	336.0	345.1



TEST NUMBER: P830055

CATALOG NUMBER: OHBL-24HE-N-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.3	51.9	190.9	241.3	248.9
115°	16.8	47.3	171.0	213.8	218.4
117.5°	18.3	41.2	149.7	187.8	189.4
120°	18.3	36.7	128.3	160.3	160.3
122.5°	18.3	30.5	106.9	132.9	131.3
125°	18.3	24.4	87.0	110.0	108.4
127.5°	16.8	19.9	70.2	91.6	90.1
130°	16.8	19.9	56.5	77.9	77.9
132.5°	15.3	18.3	45.8	67.2	67.2
135°	15.3	18.3	38.2	59.6	59.6
137.5°	15.3	19.9	32.1	51.9	51.9
140°	15.3	18.3	27.5	45.8	45.8
142.5°	16.8	18.3	24.4	39.7	39.7
145°	18.3	19.9	22.9	35.1	33.6
147.5°	18.3	21.4	22.9	30.5	29.0
150°	18.3	22.9	22.9	27.5	26.0
152.5°	18.3	22.9	22.9	26.0	24.4
155°	18.3	22.9	24.4	26.0	22.9
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	12.2	62.6	232.1	300.8	311.5
110°	13.7	56.5	212.3	268.8	279.5



(END OF REPORT)