

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: P830061

Luminaire Tested: **OHBL-24HE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830061
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-L840-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

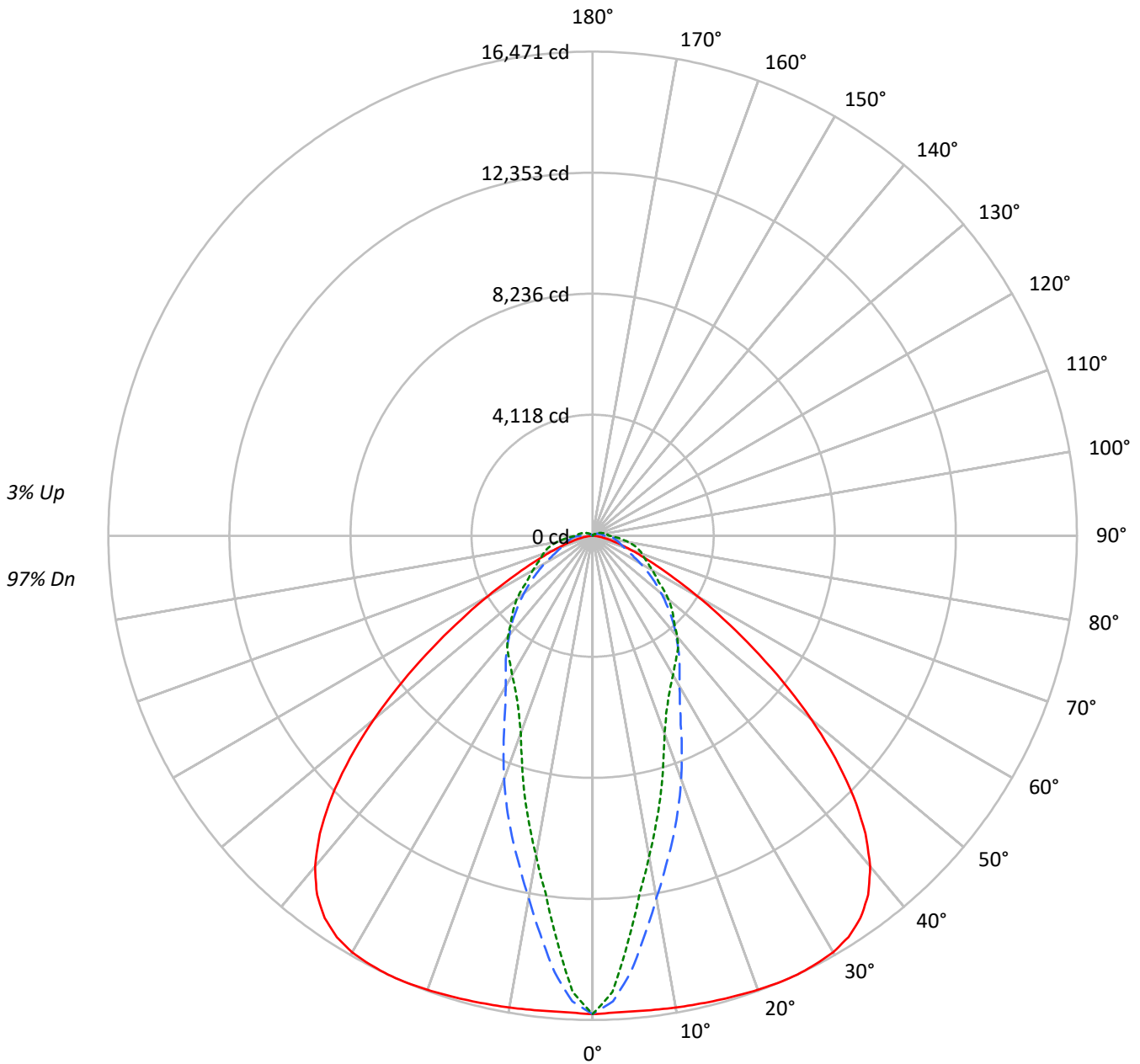
Lumens per Lamp: N/A
Luminaire Lumens: 24015.0 lumens
Efficiency: N/A
Efficacy: 180.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25733	25733	25733
5°	25680	23445	21802
10°	25970	19757	17493
15°	26477	16905	14367
20°	27221	14301	11628
25°	28163	11843	10196
30°	29136	10208	9479
35°	29743	9308	9038
40°	29233	8413	8582
45°	26894	7608	7954
50°	22690	6727	7474
55°	17241	5898	6660
60°	12082	5064	6387
65°	8127	4368	6266
70°	5551	4108	6593
75°	3852	4249	7074
80°	2651	4728	7333
85°	1550	5967	7795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1369.7	5.7
10°-20°	3222.2	13.4
20°-30°	4039.0	16.8
30°-40°	4285.8	17.8
40°-50°	3875.0	16.1
50°-60°	2809.6	11.7
60°-70°	1763.2	7.3
70°-80°	1166.8	4.9
80°-90°	672.2	2.8
90°-100°	325.7	1.4
100°-110°	224.8	0.9
110°-120°	138.7	0.6
120°-130°	67.2	0.3
130°-140°	30.9	0.1
140°-150°	16.9	0.1
150°-160°	7.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8630.8	35.9
0°-40°	12916.6	53.8
0°-60°	19601.3	81.6
0°-90°	23203.5	96.6
90°-120°	689.2	2.9
90°-150°	804.1	3.3
90°-180°	811.0	3.4
0°-180°	24015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16271	16271	16271	16271	16271	
5°	16239	15822	14893	14202	13845	###
15°	16363	13337	10593	9420	8993	4640
25°	16471	10312	7093	6295	6095	7609
35°	15881	6856	5148	4987	4985	9873
45°	12555	4342	3731	3820	3886	9564
55°	6647	2692	2434	2640	2735	6006
65°	2377	1561	1409	1806	2007	2474
75°	734	841	946	1470	1558	818
85°	128	348	692	963	884	154
90°	0	146	401	565	570	8
95°	6	102	353	480	502	5
105°	12	68	257	341	350	12
115°	17	48	173	217	222	17
125°	19	25	88	112	110	16
135°	16	19	39	60	60	12
145°	19	20	23	36	34	11
155°	19	23	25	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: P830061

CATALOG NUMBER: OHBL-24HE-N-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16271.4	16271.4	16271.4	16271.4	16271.4
2.5°	16237.4	16144.5	15854.9	15678.3	15529.7
5°	16238.9	15822.3	14893.2	14202.5	13844.7
7.5°	16262.2	15336.1	13662.0	12653.8	12260.5
10°	16297.8	14733.7	12512.9	11438.2	11071.1
12.5°	16324.1	14055.4	11501.7	10397.5	9994.9
15°	16362.8	13336.8	10592.6	9420.3	8992.9
17.5°	16398.4	12660.0	9694.4	8469.5	7994.0
20°	16434.0	11930.6	8796.2	7534.1	7142.3
22.5°	16468.1	11161.0	7919.7	6807.8	6539.9
25°	16471.2	10312.3	7092.7	6295.2	6095.4
27.5°	16431.0	9432.7	6422.2	5866.2	5742.3
30°	16361.3	8579.4	5901.8	5556.5	5468.2
32.5°	16187.8	7709.1	5499.2	5257.6	5206.5
35°	15881.2	6855.8	5147.6	4986.6	4985.0
37.5°	15398.0	6098.5	4766.7	4738.8	4772.9
40°	14684.1	5435.7	4405.8	4480.2	4480.2
42.5°	13731.7	4859.6	4079.1	4155.0	4134.8
45°	12554.7	4342.4	3730.6	3820.5	3885.5
47.5°	11190.4	3887.1	3374.5	3547.9	3637.7
50°	9706.8	3453.4	3049.3	3270.7	3372.9
52.5°	8152.0	3052.3	2731.8	2985.8	3067.8
55°	6646.7	2691.5	2434.4	2640.4	2734.9
57.5°	5283.9	2347.7	2143.3	2338.4	2533.6
60°	4111.6	2051.9	1869.2	2147.9	2343.1
62.5°	3140.6	1788.7	1612.1	1969.9	2165.0
65°	2377.1	1561.0	1409.3	1805.7	2007.0
67.5°	1791.8	1364.3	1251.3	1686.5	1883.1
70°	1345.8	1173.9	1124.3	1612.1	1788.7
72.5°	994.2	998.9	1023.6	1547.1	1681.8
75°	734.1	840.9	946.2	1469.6	1557.9
77.5°	525.0	696.9	876.5	1376.7	1407.7
80°	363.9	568.3	803.7	1254.4	1228.1
82.5°	227.6	455.3	738.7	1119.7	1046.9
85°	128.5	348.4	692.2	963.2	884.3
87.5°	57.3	260.2	605.5	751.1	701.5
90°	0.0	145.6	401.1	565.2	569.9
92.5°	3.1	120.8	370.1	517.2	532.7
95°	6.2	102.2	353.1	480.1	501.8
97.5°	7.7	89.8	331.4	446.0	464.6
100°	9.3	80.5	305.1	410.4	425.9
102.5°	10.8	74.3	280.3	373.2	385.6
105°	12.4	68.1	257.1	340.7	350.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.5	52.7	193.6	244.7	252.4
115°	17.0	48.0	173.4	216.8	221.5
117.5°	18.6	41.8	151.8	190.5	192.0
120°	18.6	37.2	130.1	162.6	162.6
122.5°	18.6	31.0	108.4	134.7	133.2
125°	18.6	24.8	88.3	111.5	110.0
127.5°	17.0	20.1	71.2	92.9	91.4
130°	17.0	20.1	57.3	79.0	79.0
132.5°	15.5	18.6	46.5	68.1	68.1
135°	15.5	18.6	38.7	60.4	60.4
137.5°	15.5	20.1	32.5	52.7	52.7
140°	15.5	18.6	27.9	46.5	46.5
142.5°	17.0	18.6	24.8	40.3	40.3
145°	18.6	20.1	23.2	35.6	34.1
147.5°	18.6	21.7	23.2	31.0	29.4
150°	18.6	23.2	23.2	27.9	26.3
152.5°	18.6	23.2	23.2	26.3	24.8
155°	18.6	23.2	24.8	26.3	23.2
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°	12.4	63.5	235.4	305.1	315.9
110°	13.9	57.3	215.3	272.6	283.4



(END OF REPORT)