

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: P830053

Luminaire Tested: **OHBL-24HE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MFL-UNV-L940-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

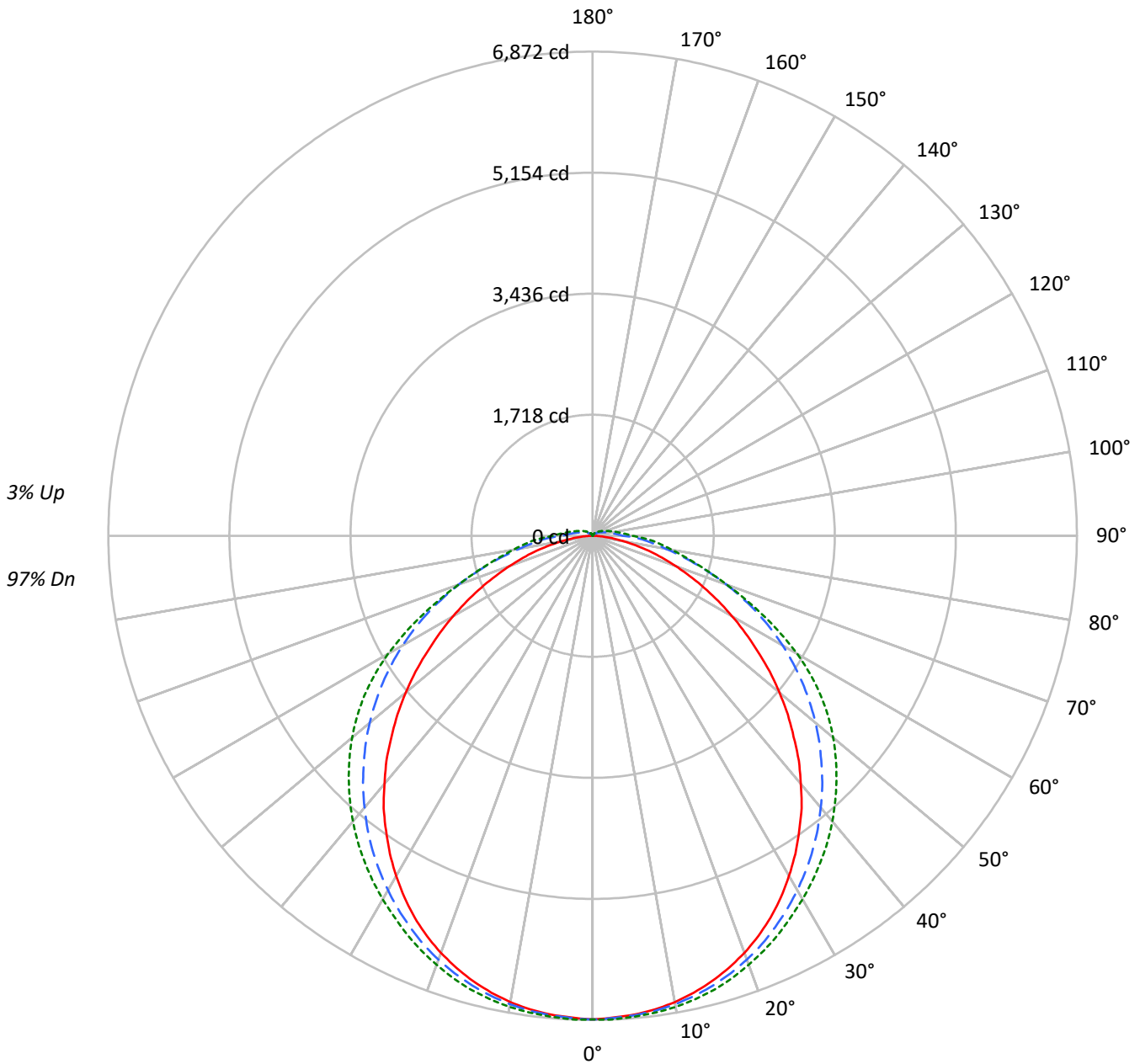
Lumens per Lamp: N/A
Luminaire Lumens: 20546.0 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830053

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830053

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L940-CD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10857	10857	10857
5°	10787	10754	10787
10°	10712	10659	10730
15°	10592	10546	10656
20°	10433	10407	10548
25°	10221	10234	10438
30°	9927	10046	10328
35°	9572	9846	10232
40°	9145	9616	10138
45°	8641	9365	10018
50°	8090	9111	9873
55°	7413	8801	9627
60°	6720	8435	9136
65°	5962	7968	8330
70°	5142	7373	7456
75°	4311	6685	6866
80°	3268	6187	6812
85°	2068	6431	7612



TEST NUMBER: P830053

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.5	3.2
10°-20°	1866.2	9.1
20°-30°	2822.3	13.7
30°-40°	3388.2	16.5
40°-50°	3499.5	17.0
50°-60°	3148.4	15.3
60°-70°	2371.7	11.5
70°-80°	1432.1	7.0
80°-90°	700.4	3.4
90°-100°	294.8	1.4
100°-110°	168.3	0.8
110°-120°	98.8	0.5
120°-130°	55.9	0.3
130°-140°	29.4	0.1
140°-150°	14.3	0.1
150°-160°	5.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5339.0	26.0
0°-40°	8727.2	42.5
0°-60°	15375.0	74.8
0°-90°	19879.2	96.8
90°-120°	561.9	2.7
90°-150°	661.5	3.2
90°-180°	667.0	3.2
0°-180°	20546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6865	6865	6865	6865	6865	
5°	6821	6840	6832	6858	6850	648
15°	6546	6578	6608	6664	6670	1845
25°	5978	6044	6129	6225	6240	2750
35°	5111	5230	5445	5610	5644	3195
45°	4034	4237	4592	4842	4894	3114
55°	2858	3154	3632	3906	3953	2562
65°	1744	2100	2571	2698	2668	1733
75°	822	1180	1489	1527	1512	876
85°	171	452	746	848	864	198
90°	0	176	427	538	560	11
95°	8	119	319	407	422	7
105°	12	69	185	242	252	12
115°	13	39	114	153	160	14
125°	13	18	69	99	104	12
135°	12	15	35	60	67	9
145°	17	15	17	30	35	10
155°	17	18	17	15	17	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830053

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6865.1	6865.1	6865.1	<i>6865.1</i>	6865.1
2.5°	<i>6844.9</i>	<i>6861.7</i>	<i>6851.6</i>	<i>6873.5</i>	<i>6871.8</i>
5°	6821.4	6839.9	6831.5	<i>6858.4</i>	6850.0
7.5°	6781.1	6801.2	6799.5	<i>6829.8</i>	6826.4
10°	6722.3	6744.1	6750.8	<i>6791.1</i>	6791.1
12.5°	6641.6	6670.2	6687.0	<i>6735.7</i>	6737.4
15°	6545.8	6577.8	6608.0	<i>6663.5</i>	6670.2
17.5°	6429.9	6470.2	6512.2	<i>6576.1</i>	6584.5
20°	6298.9	6344.2	6401.4	<i>6468.6</i>	6478.6
22.5°	6147.7	6201.4	6275.3	<i>6354.3</i>	6366.1
25°	5978.0	6043.5	6129.2	<i>6224.9</i>	6240.1
27.5°	5784.7	5860.3	5976.3	<i>6083.8</i>	6097.2
30°	5574.7	5663.8	5808.3	<i>5936.0</i>	5957.8
32.5°	5352.9	5455.4	5633.5	<i>5776.3</i>	5806.6
35°	5111.0	5230.3	5445.3	<i>5610.0</i>	5643.6
37.5°	4872.4	5003.5	5247.1	<i>5435.3</i>	5475.6
40°	4593.5	4756.5	5035.4	<i>5243.7</i>	5292.5
42.5°	4331.4	4507.8	4823.7	<i>5050.5</i>	5097.6
45°	4034.0	4237.3	4591.8	<i>4842.2</i>	4894.3
47.5°	3755.1	3975.2	4368.4	<i>4627.1</i>	4680.9
50°	3461.1	3703.0	4129.8	<i>4400.3</i>	4455.7
52.5°	3167.1	3427.5	3882.8	<i>4163.4</i>	4215.5
55°	2857.9	3153.6	3632.5	<i>3906.3</i>	3953.4
57.5°	2570.6	2883.1	3375.4	<i>3635.8</i>	3664.4
60°	2286.7	2610.9	3113.3	<i>3341.8</i>	3351.9
62.5°	2009.5	2350.5	2844.5	<i>3025.9</i>	3012.5
65°	1744.0	2100.2	2570.6	<i>2698.3</i>	2668.1
67.5°	1488.6	1856.6	2290.0	<i>2372.4</i>	2332.0
70°	1246.7	1619.7	2017.9	<i>2059.9</i>	2022.9
72.5°	1033.3	1394.5	1742.3	<i>1777.6</i>	1750.7
75°	821.6	1179.5	1488.6	<i>1527.3</i>	1512.1
77.5°	623.3	971.1	1255.1	<i>1305.5</i>	1308.8
80°	448.6	781.3	1051.8	<i>1130.7</i>	1140.8
82.5°	295.7	606.5	882.1	<i>982.9</i>	998.0
85°	171.4	452.0	746.0	<i>848.5</i>	863.6
87.5°	73.9	325.9	599.8	<i>692.2</i>	710.7
90°	0.0	176.4	426.8	<i>537.6</i>	559.5
92.5°	5.0	146.2	366.3	<i>467.1</i>	485.6
95°	8.4	119.3	319.2	<i>406.6</i>	421.7
97.5°	10.1	100.8	277.2	<i>354.5</i>	369.6
100°	10.1	87.4	240.3	<i>310.8</i>	324.3
102.5°	10.1	77.3	210.0	<i>272.2</i>	283.9
105°	11.8	68.9	184.8	<i>241.9</i>	252.0



TEST NUMBER: P830053

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.4	45.4	127.7	171.4	178.1
115°	13.4	38.6	114.2	152.9	159.6
117.5°	15.1	33.6	100.8	137.8	142.8
120°	15.1	28.6	89.0	122.7	129.4
122.5°	15.1	23.5	79.0	110.9	115.9
125°	13.4	18.5	68.9	99.1	104.2
127.5°	11.8	15.1	58.8	89.0	94.1
130°	11.8	13.4	50.4	79.0	84.0
132.5°	11.8	15.1	42.0	68.9	75.6
135°	11.8	15.1	35.3	60.5	67.2
137.5°	11.8	15.1	28.6	52.1	58.8
140°	13.4	15.1	23.5	43.7	50.4
142.5°	15.1	15.1	18.5	37.0	42.0
145°	16.8	15.1	16.8	30.2	35.3
147.5°	16.8	16.8	16.8	23.5	28.6
150°	16.8	18.5	16.8	18.5	23.5
152.5°	16.8	18.5	16.8	15.1	18.5
155°	16.8	18.5	16.8	15.1	16.8
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°	11.8	60.5	163.0	215.1	223.5
110°	11.8	53.8	144.5	191.5	199.9



(END OF REPORT)