

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: P830077

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

Issue Date: 5/3/2024



**Test Information**

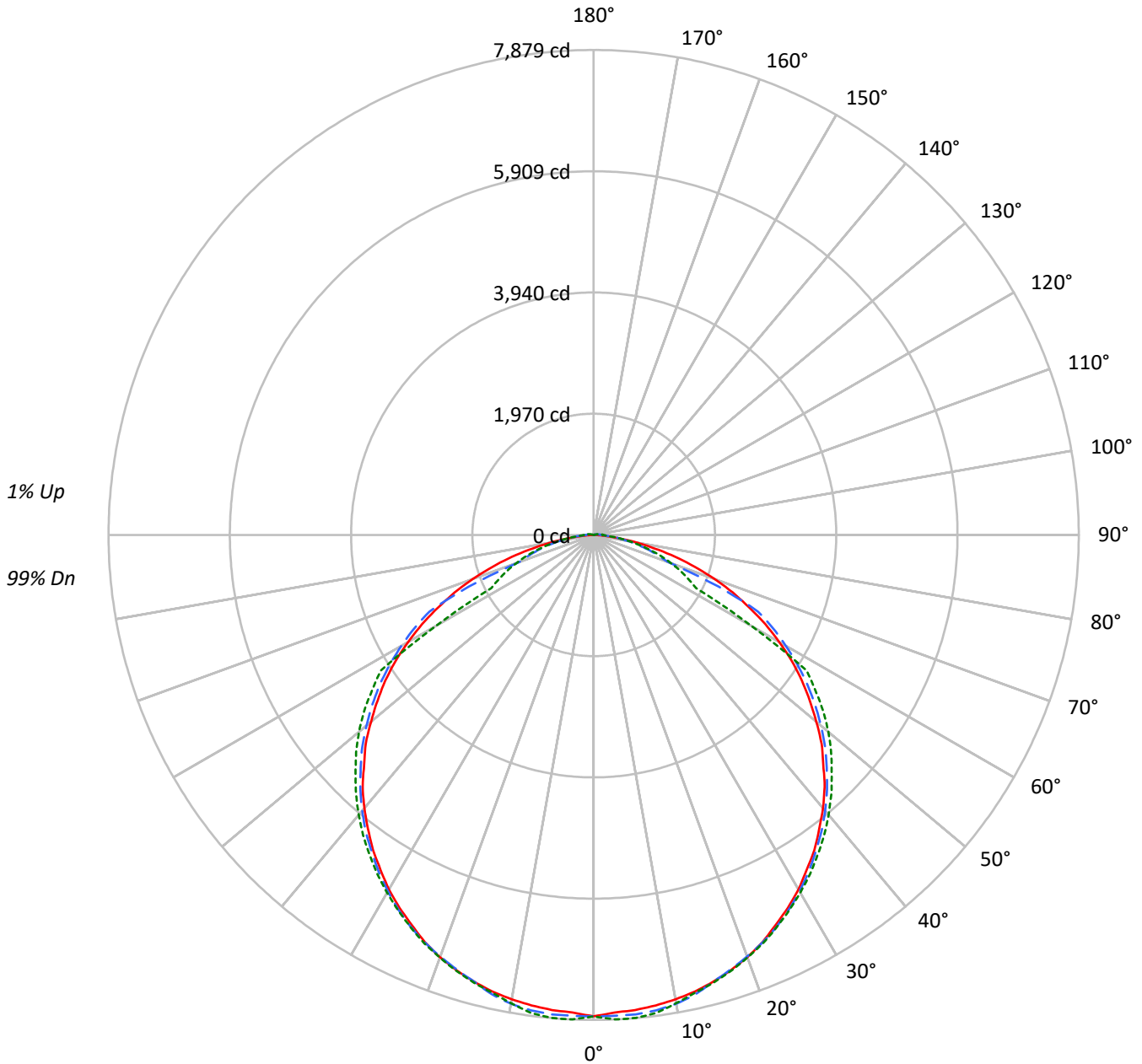
Test Method: LM-79-08  
Report Number: P830077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-NL-UNV-L940-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21959.0 lumens  
Efficiency: N/A  
Efficacy: 165.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): 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: P830077  
CATALOG NUMBER: OHBL-24HE-NL-UNV-L940-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830077

CATALOG NUMBER: OHBL-24HE-NL-UNV-L940-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12369	12369	12369
5°	12301	12412	12506
10°	12304	12421	12406
15°	12302	12300	12327
20°	12285	12267	12297
25°	12201	12263	12273
30°	12145	12207	12255
35°	12066	12132	12246
40°	11962	12075	12254
45°	11789	11968	12229
50°	11612	11848	12240
55°	11390	11685	12105
60°	11008	11399	9424
65°	10415	11020	6342
70°	9633	5851	6155
75°	8402	5560	5878
80°	6462	5100	5387
85°	3261	5155	5278



TEST NUMBER: P830077

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.0	3.4
10°-20°	2127.5	9.7
20°-30°	3237.2	14.7
30°-40°	3936.0	17.9
40°-50°	4138.5	18.8
50°-60°	3779.0	17.2
60°-70°	2422.5	11.0
70°-80°	1144.4	5.2
80°-90°	317.3	1.4
90°-100°	84.0	0.4
100°-110°	23.0	0.1
110°-120°	6.4	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6107.8	27.8
0°-40°	10043.8	45.7
0°-60°	17961.4	81.8
0°-90°	21845.6	99.5
90°-120°	113.4	0.5
90°-150°	113.4	0.5
90°-180°	113.0	0.5
0°-180°	21959.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7821	7821	7821	7821	7821	
5°	7748	7779	7818	7861	7878	737
15°	7514	7570	7512	7523	7529	2121
25°	6992	7003	7028	7039	7033	3226
35°	6250	6213	6284	6361	6343	3906
45°	5271	5262	5351	5477	5468	4074
55°	4131	4099	4238	4379	4390	3684
65°	2783	2783	2945	1689	1695	2759
75°	1375	1401	910	958	962	1450
85°	180	228	284	307	291	266
90°	0	77	126	150	147	8
95°	4	40	91	122	122	2
105°	7	15	22	22	21	7
115°	7	10	14	10	1	5
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P830077

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7821.2	7821.2	7821.2	7821.2	7821.2
2.5°	7766.3	7792.5	7821.2	7858.3	7878.8
5°	7748.4	7778.7	7818.5	7861.0	7877.5
7.5°	7710.1	7752.5	7791.0	7821.2	7830.8
10°	7662.0	7712.8	7734.8	7732.0	7725.2
12.5°	7597.5	7651.1	7644.3	7612.6	7618.1
15°	7513.8	7570.0	7512.5	7523.4	7528.9
17.5°	7415.0	7469.9	7402.6	7424.6	7426.0
20°	7299.8	7340.9	7288.7	7306.6	7306.6
22.5°	7161.1	7189.9	7168.0	7180.3	7183.1
25°	6992.3	7003.2	7027.9	7038.9	7033.4
27.5°	6830.4	6816.6	6864.7	6890.7	6876.9
30°	6650.6	6628.6	6684.9	6727.4	6711.0
32.5°	6444.7	6431.0	6495.5	6546.2	6536.7
35°	6249.8	6212.8	6284.1	6361.0	6343.1
37.5°	6019.2	5997.3	6078.2	6159.3	6149.7
40°	5794.2	5757.1	5849.1	5945.1	5935.6
42.5°	5552.7	5508.7	5608.9	5724.3	5713.3
45°	5271.3	5261.7	5350.9	5477.1	5467.6
47.5°	5021.6	4973.5	5098.4	5220.5	5231.6
50°	4719.6	4701.8	4815.7	4964.0	4974.8
52.5°	4424.6	4412.3	4531.5	4681.2	4700.4
55°	4130.8	4099.3	4237.9	4379.3	4390.3
57.5°	3816.7	3783.7	3925.1	4078.8	4102.0
60°	3480.3	3448.8	3603.8	3746.6	2979.5
62.5°	3144.1	3122.2	3284.2	2326.2	1874.8
65°	2783.2	2783.2	2945.0	1689.4	1694.9
67.5°	2445.7	2423.7	2195.9	1517.8	1517.8
70°	2083.3	2091.6	1265.3	1329.9	1331.2
72.5°	1719.6	1749.8	1092.5	1144.5	1147.3
75°	1375.1	1401.3	909.9	957.9	962.0
77.5°	1010.1	776.8	731.4	768.6	769.9
80°	709.5	489.9	560.0	595.6	591.5
82.5°	414.4	343.0	410.3	436.5	435.0
85°	179.7	227.8	284.1	307.4	290.9
87.5°	57.5	141.4	177.0	190.8	189.3
90°	0.0	76.9	126.3	149.5	146.9
92.5°	0.0	60.3	109.8	137.3	138.6
95°	4.1	39.8	90.7	122.2	122.2
97.5°	2.8	28.8	64.5	96.0	98.8
100°	2.8	23.2	42.6	68.6	70.0
102.5°	6.8	19.2	26.0	43.9	45.3
105°	6.8	15.1	21.9	21.9	20.6



TEST NUMBER: P830077

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.3	11.0	15.1	11.0	1.3
115°	6.8	9.6	13.7	9.6	1.3
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	6.8	13.7	19.2	12.4	4.1
110°	8.3	12.4	16.4	11.0	1.3



(END OF REPORT)