

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: P827728

Luminaire Tested: **OHBL-24HE-A-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827728
REPORT IS A COMBINATION OF REPORTS P826239 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-A-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

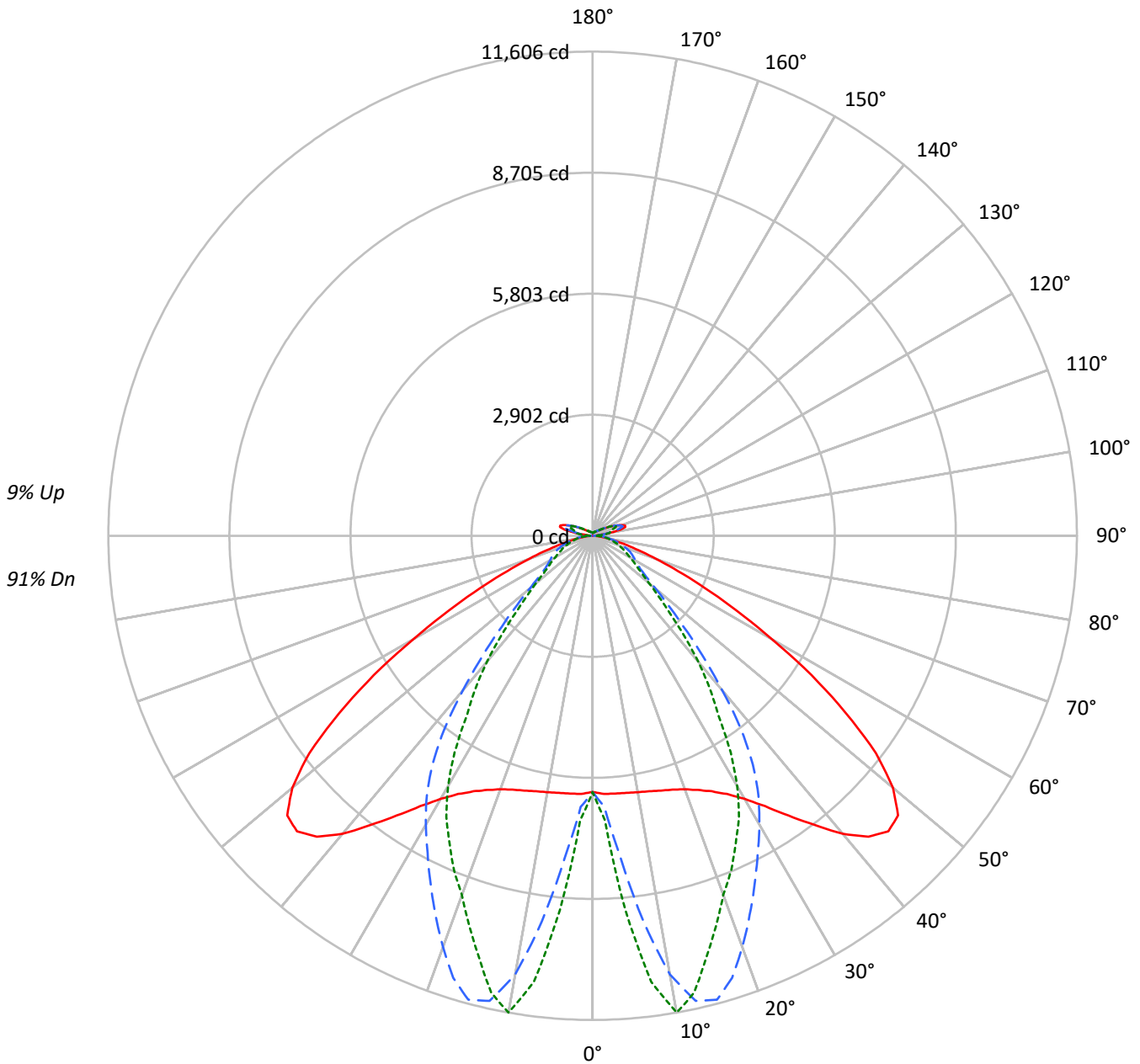
Lumens per Lamp: N/A
Luminaire Lumens: 21664.4 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 150.4
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: P827728

CATALOG NUMBER: OHBL-24HE-A-UNV-L930-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827728

CATALOG NUMBER: OHBL-24HE-A-UNV-L930-CD-UPL24

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9713	9713	9713
5°	9769	12221	14238
10°	9862	16857	18494
15°	10103	18372	16974
20°	10528	17055	15169
25°	11304	15345	13875
30°	12614	13825	12338
35°	14841	12107	9832
40°	17861	9226	7825
45°	20509	6290	5569
50°	20816	4318	4119
55°	18043	3402	3365
60°	13501	3186	3028
65°	9274	3202	2868
70°	5947	3095	2777
75°	3591	2873	2657
80°	2128	2536	2742
85°	1037	2197	2542



TEST NUMBER: P827728

CATALOG NUMBER: OHBL-24HE-A-UNV-L930-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.8	3.7
10°-20°	2829.9	13.1
20°-30°	4170.0	19.2
30°-40°	4382.0	20.2
40°-50°	3353.0	15.5
50°-60°	2024.7	9.3
60°-70°	1235.5	5.7
70°-80°	674.4	3.1
80°-90°	241.7	1.1
90°-100°	187.4	0.9
100°-110°	650.6	3.0
110°-120°	558.1	2.6
120°-130°	267.8	1.2
130°-140°	134.0	0.6
140°-150°	77.7	0.4
150°-160°	45.3	0.2
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	7801.6	36.0
0°-40°	12183.6	56.2
0°-60°	17561.4	81.1
0°-90°	19713.0	91.0
90°-120°	1396.2	6.4
90°-150°	1875.5	8.7
90°-180°	1951.0	9.0
0°-180°	21664.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6142	6142	6142	6142	6142	
5°	6203	6655	7764	8669	9003	593
15°	6324	9850	11512	10742	10490	1798
25°	6758	11432	9190	8321	8115	3158
35°	8186	9155	6695	5576	5250	5193
45°	10019	5224	3084	2714	2600	7570
55°	7409	1771	1404	1301	1297	6547
65°	2970	1121	1033	884	839	3044
75°	791	697	640	528	506	910
85°	118	216	255	232	211	145
90°	4	28	38	50	56	9
95°	43	90	139	184	209	133
105°	811	802	682	486	446	769
115°	559	565	565	563	559	564
125°	273	288	293	293	290	256
135°	162	165	171	172	174	128
145°	117	120	123	124	124	75
155°	94	95	97	98	98	44
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



TEST NUMBER: P827728

CATALOG NUMBER: OHBL-24HE-A-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6141.6	6141.6	6141.6	6141.6	6141.6
2.5°	6191.8	6255.0	6504.2	6762.8	6825.7
5°	6203.2	6655.1	7763.6	8668.7	9003.2
7.5°	6216.3	7303.2	9324.0	10432.2	10787.0
10°	6241.4	8122.8	10676.1	11471.7	11605.7
12.5°	6272.4	8991.1	11420.1	11391.1	11222.0
15°	6324.1	9849.9	11511.7	10742.2	10489.6
17.5°	6378.3	10576.5	11111.9	10035.9	9815.9
20°	6466.5	11115.9	10490.1	9407.9	9158.1
22.5°	6593.7	11412.5	9838.1	8840.2	8677.1
25°	6757.8	11431.6	9190.4	8320.6	8115.2
27.5°	6977.7	11166.4	8569.7	7811.5	7594.5
30°	7276.9	10658.7	7993.0	7197.6	6928.5
32.5°	7683.2	9927.9	7398.3	6456.5	6154.7
35°	8185.7	9154.6	6695.4	5575.9	5249.8
37.5°	8734.0	8296.1	5842.4	4796.0	4606.1
40°	9324.0	7411.4	4831.3	4066.2	3930.4
42.5°	9784.3	6449.7	3892.2	3379.2	3234.5
45°	10019.0	5223.8	3084.2	2713.9	2599.9
47.5°	9927.6	4054.9	2445.0	2156.4	2122.1
50°	9394.3	2994.1	1957.3	1776.4	1762.2
52.5°	8560.5	2231.7	1616.7	1504.9	1480.4
55°	7409.3	1771.4	1404.0	1301.3	1297.3
57.5°	6220.8	1504.9	1274.4	1194.9	1167.2
60°	4953.0	1341.8	1176.1	1086.3	1030.3
62.5°	3882.4	1227.8	1104.0	982.0	929.7
65°	2970.5	1121.4	1032.9	883.8	838.8
67.5°	2214.3	1020.0	946.0	780.6	754.3
70°	1613.4	916.0	847.0	694.2	673.4
72.5°	1149.9	812.2	748.0	613.1	590.2
75°	790.9	697.3	639.7	527.8	506.4
77.5°	533.6	580.1	533.0	450.6	441.7
80°	356.3	460.1	431.1	381.9	376.4
82.5°	216.2	333.9	340.2	310.5	295.5
85°	117.7	216.2	254.9	232.3	210.7
87.5°	46.1	119.8	175.7	157.8	148.6
90°	4.0	27.5	38.0	50.1	55.8
92.5°	13.7	36.4	58.2	82.4	93.0
95°	42.8	89.7	139.0	184.3	208.6
97.5°	217.4	235.2	253.0	306.4	333.0
100°	446.2	473.7	382.3	404.2	411.4
102.5°	689.5	685.5	499.6	447.8	441.4
105°	810.8	801.9	682.2	485.8	446.2



TEST NUMBER: P827728

CATALOG NUMBER: OHBL-24HE-A-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	653.1	662.8	649.9	631.3	605.4
115°	559.4	565.0	565.0	563.4	558.6
117.5°	478.5	479.3	482.6	481.8	482.6
120°	396.1	405.0	412.2	408.2	403.4
122.5°	332.2	341.9	346.8	345.2	340.3
125°	273.2	287.8	293.4	292.6	290.2
127.5°	231.2	241.7	249.8	250.6	249.8
130°	201.3	207.7	215.8	216.6	217.4
132.5°	178.6	184.3	190.0	193.2	192.4
135°	161.7	164.9	170.6	172.2	173.8
137.5°	147.9	150.4	155.2	157.6	157.6
140°	135.8	139.0	143.1	144.7	145.5
142.5°	125.3	128.5	131.8	133.4	133.4
145°	117.2	120.4	122.9	123.7	124.5
147.5°	109.9	113.2	114.8	116.4	116.4
150°	104.3	105.9	108.3	109.1	109.9
152.5°	98.6	100.2	102.7	103.5	103.5
155°	93.8	95.4	97.0	97.8	97.8
157.5°	89.7	91.3	93.0	93.8	93.8
160°	86.5	87.3	88.9	89.7	89.7
162.5°	83.3	84.1	84.9	85.7	85.7
165°	80.8	81.6	82.4	82.4	82.4
167.5°	78.4	78.4	79.2	80.0	80.0
170°	76.0	76.8	76.8	77.6	77.6
172.5°	74.4	75.2	75.2	75.2	76.0
175°	72.8	73.6	73.6	74.4	74.4
177.5°	72.8	72.8	72.8	72.8	72.8
180°	72.8	72.8	72.8	72.8	72.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	814.0	817.2	754.2	589.3	490.7
110°	750.9	758.2	721.8	659.6	580.4



(END OF REPORT)