

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: P830075

Luminaire Tested: **OHBL-24HE-NL-UNV-L930-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830075
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-L930-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

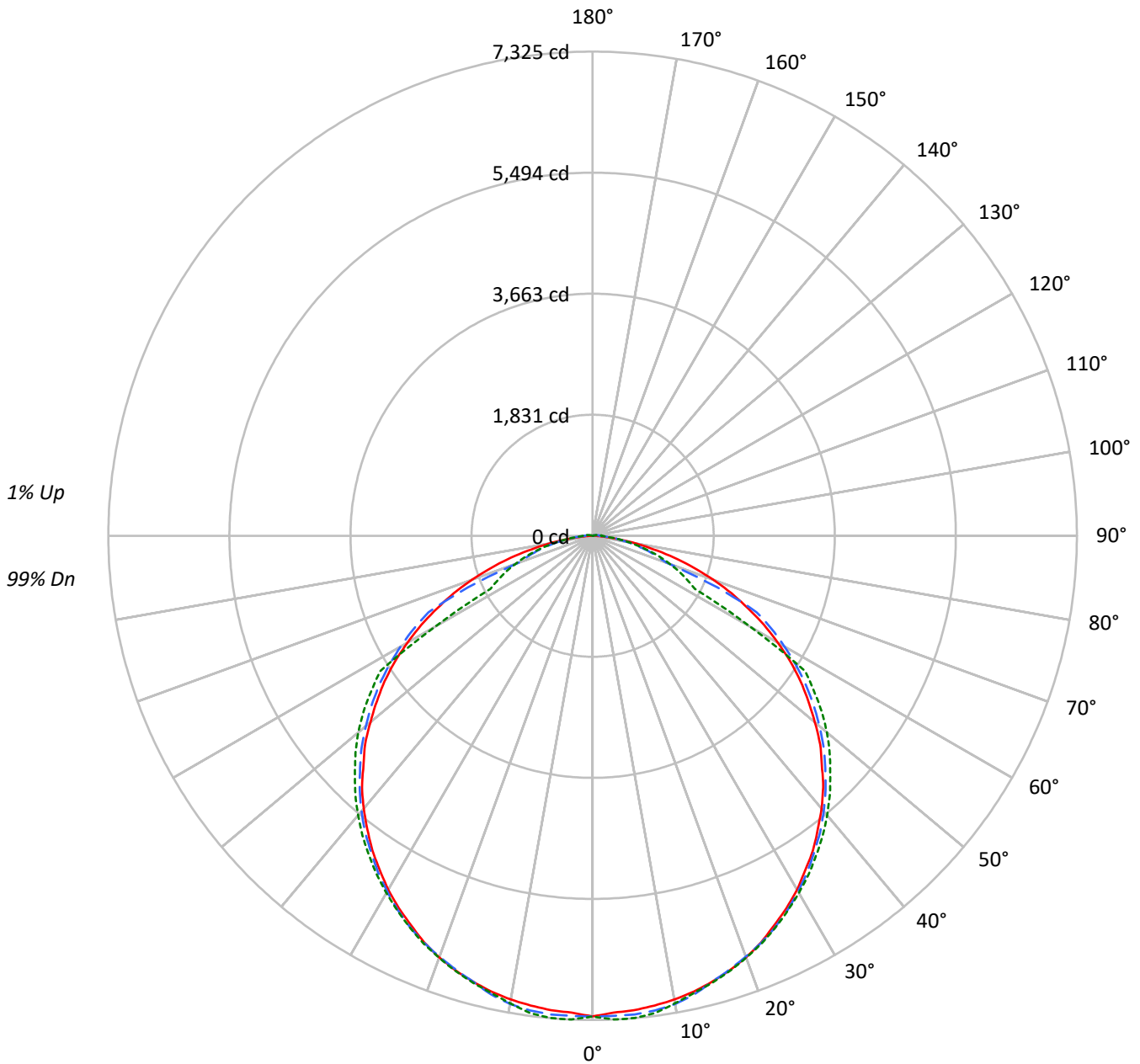
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20416.0 lumens
Efficiency: N/A
Efficacy: 153.5 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: P830075
CATALOG NUMBER: OHBL-24HE-NL-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830075

CATALOG NUMBER: OHBL-24HE-NL-UNV-L930-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°	11500	11500	11500
5°	11436	11540	11627
10°	11440	11548	11534
15°	11438	11436	11461
20°	11422	11405	11433
25°	11344	11402	11411
30°	11291	11350	11394
35°	11218	11280	11386
40°	11121	11227	11393
45°	10961	11127	11369
50°	10796	11016	11380
55°	10589	10864	11254
60°	10235	10598	8762
65°	9683	10246	5897
70°	8956	5439	5723
75°	7812	5169	5465
80°	6007	4741	5008
85°	3032	4792	4907



TEST NUMBER: P830075

CATALOG NUMBER: OHBL-24HE-NL-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.8	3.4
10°-20°	1978.1	9.7
20°-30°	3009.8	14.7
30°-40°	3659.4	17.9
40°-50°	3847.7	18.8
50°-60°	3513.4	17.2
60°-70°	2252.3	11.0
70°-80°	1063.9	5.2
80°-90°	295.0	1.4
90°-100°	78.1	0.4
100°-110°	21.4	0.1
110°-120°	5.9	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°	5678.6	27.8
0°-40°	9338.1	45.7
0°-60°	16699.3	81.8
0°-90°	20310.5	99.5
90°-120°	105.5	0.5
90°-150°	105.5	0.5
90°-180°	105.0	0.5
0°-180°	20416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7272	7272	7272	7272	7272	
5°	7204	7232	7269	7309	7324	685
15°	6986	7038	6985	6995	7000	1972
25°	6501	6511	6534	6544	6539	3000
35°	5811	5776	5843	5914	5897	3631
45°	4901	4892	4975	5092	5083	3788
55°	3841	3811	3940	4072	4082	3425
65°	2588	2588	2738	1571	1576	2565
75°	1278	1303	846	891	894	1348
85°	167	212	264	286	270	247
90°	0	72	117	139	137	7
95°	4	37	84	114	114	2
105°	6	14	20	20	19	6
115°	6	9	13	9	1	4
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: P830075

CATALOG NUMBER: OHBL-24HE-NL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7271.7	7271.7	7271.7	7271.7	7271.7
2.5°	7220.6	7244.9	7271.7	7306.1	7325.1
5°	7204.0	7232.1	7269.1	7308.7	7323.9
7.5°	7168.3	7207.8	7243.6	7271.7	7280.6
10°	7123.6	7170.9	7191.3	7188.7	7182.4
12.5°	7063.6	7113.5	7107.1	7077.7	7082.8
15°	6985.8	7038.1	6984.6	6994.7	6999.9
17.5°	6893.9	6945.0	6882.5	6902.9	6904.2
20°	6786.8	6825.1	6776.6	6793.2	6793.2
22.5°	6657.9	6684.7	6664.3	6675.8	6678.3
25°	6501.0	6511.1	6534.1	6544.3	6539.2
27.5°	6350.5	6337.7	6382.4	6406.5	6393.7
30°	6183.2	6162.9	6215.1	6254.7	6239.4
32.5°	5991.8	5979.1	6039.1	6086.3	6077.3
35°	5810.7	5776.2	5842.6	5914.0	5897.4
37.5°	5596.3	5575.9	5651.1	5726.5	5717.6
40°	5387.0	5352.6	5438.1	5527.4	5518.5
42.5°	5162.5	5121.6	5214.8	5322.1	5311.8
45°	4900.9	4891.9	4974.9	5092.3	5083.4
47.5°	4668.8	4624.1	4740.1	4853.7	4864.0
50°	4387.9	4371.4	4477.4	4615.1	4625.3
52.5°	4113.7	4102.2	4213.1	4352.3	4370.1
55°	3840.6	3811.2	3940.1	4071.6	4081.8
57.5°	3548.5	3517.8	3649.3	3792.2	3813.8
60°	3235.8	3206.4	3350.6	3483.4	2770.1
62.5°	2923.2	2902.8	3053.4	2162.8	1743.0
65°	2587.6	2587.6	2738.1	1570.7	1575.8
67.5°	2273.8	2253.4	2041.6	1411.1	1411.1
70°	1936.9	1944.6	1176.3	1236.5	1237.7
72.5°	1598.8	1626.9	1015.7	1064.1	1066.7
75°	1278.5	1302.8	845.9	890.6	894.4
77.5°	939.1	722.2	680.0	714.6	715.8
80°	659.6	455.5	520.6	553.7	549.9
82.5°	385.3	318.9	381.5	405.8	404.5
85°	167.1	211.8	264.1	285.8	270.4
87.5°	53.5	131.4	164.5	177.4	176.0
90°	0.0	71.5	117.4	139.0	136.6
92.5°	0.0	56.1	102.1	127.7	128.9
95°	3.8	37.0	84.3	113.6	113.6
97.5°	2.6	26.7	60.0	89.3	91.9
100°	2.6	21.6	39.6	63.8	65.1
102.5°	6.3	17.8	24.2	40.8	42.1
105°	6.3	14.0	20.4	20.4	19.2



TEST NUMBER: P830075

CATALOG NUMBER: OHBL-24HE-NL-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	10.3	14.0	10.3	1.2
115°	6.3	8.9	12.7	8.9	1.2
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°	6.3	12.7	17.8	11.5	3.8
110°	7.7	11.5	15.3	10.3	1.2



(END OF REPORT)