

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: P830431

Luminaire Tested: **OHBL-36SE-NL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830431
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-36SE-NL-UNV-L830-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

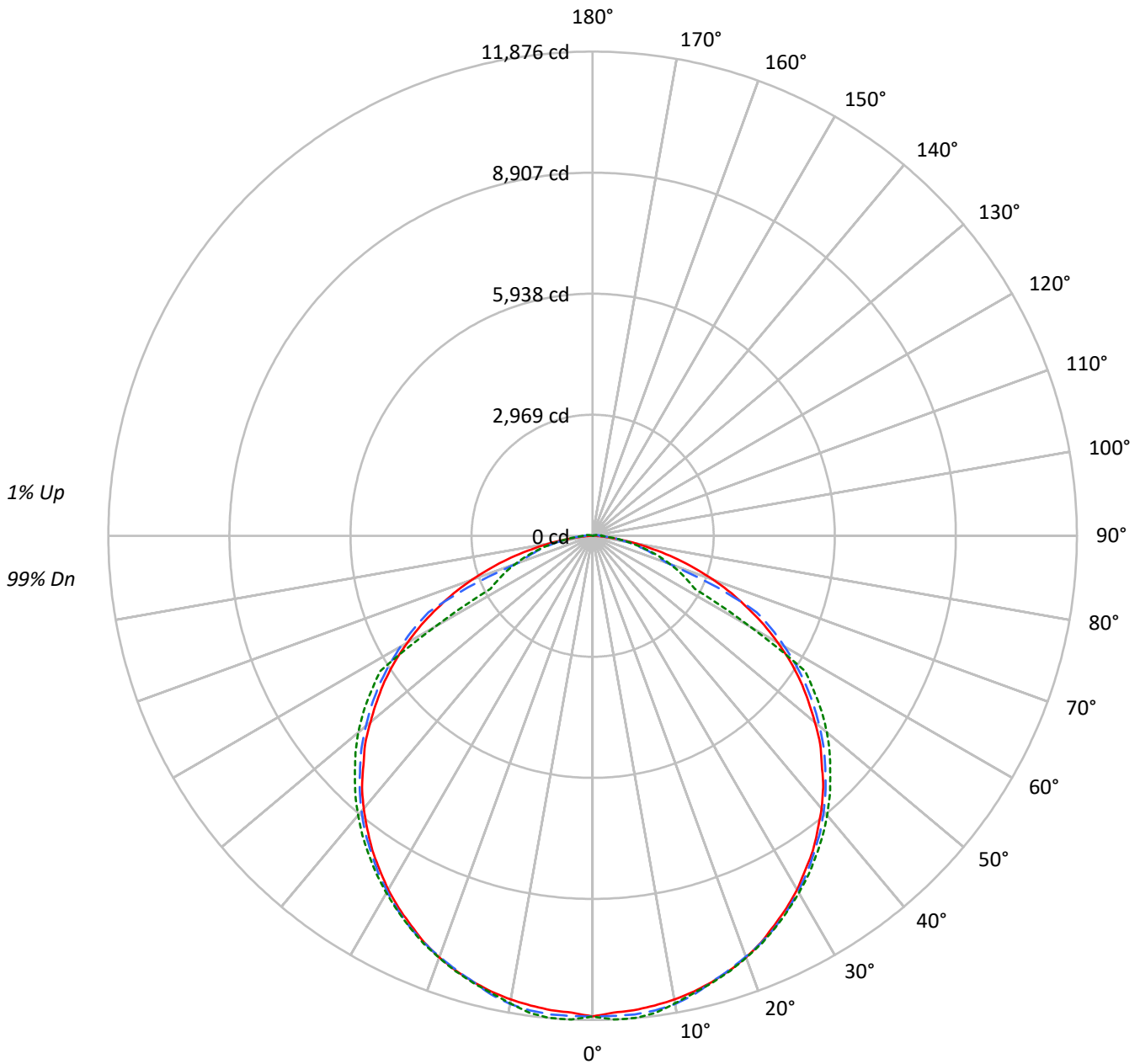
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33101.0 lumens
Efficiency: N/A
Efficacy: 156.9 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): 211
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

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Luminous Intensity Polar Plot





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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°	18645	18645	18645
5°	18542	18710	18851
10°	18547	18724	18700
15°	18544	18541	18581
20°	18519	18491	18536
25°	18392	18486	18500
30°	18307	18402	18473
35°	18188	18288	18460
40°	18031	18202	18471
45°	17771	18040	18433
50°	17504	17860	18450
55°	17169	17614	18247
60°	16593	17182	14206
65°	15700	16613	9561
70°	14521	8819	9279
75°	12666	8380	8861
80°	9740	7688	8120
85°	4916	7770	7957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1120.1	3.4
10°-20°	3207.1	9.7
20°-30°	4879.8	14.7
30°-40°	5933.2	17.9
40°-50°	6238.4	18.8
50°-60°	5696.5	17.2
60°-70°	3651.7	11.0
70°-80°	1725.0	5.2
80°-90°	478.3	1.4
90°-100°	126.7	0.4
100°-110°	34.7	0.1
110°-120°	9.6	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°	9206.9	27.8
0°-40°	15140.1	45.7
0°-60°	27075.0	81.8
0°-90°	32930.0	99.5
90°-120°	171.0	0.5
90°-150°	171.0	0.5
90°-180°	171.0	0.5
0°-180°	33101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11790	11790	11790	11790	11790	
5°	11680	11726	11786	11850	11874	###
15°	11326	11411	11324	11341	11349	3198
25°	10540	10557	10594	10610	10602	4864
35°	9421	9365	9473	9589	9562	5888
45°	7946	7931	8066	8256	8242	6142
55°	6227	6179	6388	6601	6618	5553
65°	4195	4195	4439	2547	2555	4159
75°	2073	2112	1372	1444	1450	2185
85°	271	343	428	464	438	400
90°	0	116	190	225	221	12
95°	6	60	137	184	184	3
105°	10	23	33	33	31	10
115°	10	14	21	14	2	7
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



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CATALOG NUMBER: OHBL-36SE-NL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11789.7	11789.7	11789.7	11789.7	11789.7
2.5°	11706.9	11746.4	11789.7	11845.6	11876.5
5°	11680.0	11725.6	11785.6	11849.7	11874.5
7.5°	11622.2	11686.1	11744.2	11789.7	11804.2
10°	11549.7	11626.3	11659.4	11655.2	11645.0
12.5°	11452.4	11533.2	11523.0	11475.2	11483.5
15°	11326.3	11411.0	11324.3	11340.7	11349.1
17.5°	11177.3	11260.1	11158.7	11191.8	11194.0
20°	11003.7	11065.6	10987.0	11013.9	11013.9
22.5°	10794.7	10838.1	10805.0	10823.6	10827.8
25°	10540.2	10556.6	10593.9	10610.5	10602.2
27.5°	10296.2	10275.4	10347.9	10387.1	10366.3
30°	10025.1	9992.0	10076.8	10140.9	10116.2
32.5°	9714.7	9694.1	9791.4	9867.8	9853.4
35°	9421.0	9365.2	9472.7	9588.6	9561.6
37.5°	9073.4	9040.3	9162.3	9284.6	9270.1
40°	8734.2	8678.3	8816.9	8961.7	8947.3
42.5°	8370.1	8303.8	8454.9	8628.8	8612.2
45°	7945.9	7931.4	8065.9	8256.2	8241.8
47.5°	7569.6	7497.1	7685.3	7869.5	7886.1
50°	7114.3	7087.5	7259.3	7482.7	7499.1
52.5°	6669.7	6651.0	6830.9	7056.4	7085.4
55°	6226.8	6179.3	6388.2	6601.3	6618.0
57.5°	5753.3	5703.5	5916.7	6148.4	6183.4
60°	5246.2	5198.7	5432.4	5647.7	4491.3
62.5°	4739.4	4706.3	4950.5	3506.5	2826.0
65°	4195.4	4195.4	4439.4	2546.6	2554.9
67.5°	3686.6	3653.5	3310.1	2287.9	2287.9
70°	3140.3	3152.8	1907.2	2004.7	2006.7
72.5°	2592.1	2637.7	1646.8	1725.2	1729.4
75°	2072.8	2112.2	1371.5	1444.0	1450.1
77.5°	1522.6	1170.9	1102.6	1158.6	1160.6
80°	1069.5	738.5	844.1	897.8	891.6
82.5°	624.7	517.1	618.5	657.9	655.8
85°	270.9	343.4	428.2	463.5	438.5
87.5°	86.7	213.1	266.8	287.6	285.4
90°	0.0	115.9	190.3	225.4	221.4
92.5°	0.0	90.9	165.6	207.0	208.9
95°	6.1	60.0	136.7	184.2	184.2
97.5°	4.2	43.4	97.2	144.8	148.9
100°	4.2	35.0	64.2	103.4	105.6
102.5°	10.3	28.9	39.2	66.1	68.3
105°	10.3	22.8	33.1	33.1	31.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.5	16.6	22.8	16.6	2.0
115°	10.3	14.5	20.6	14.5	2.0
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°	10.3	20.6	28.9	18.6	6.1
110°	12.5	18.6	24.7	16.6	2.0



(END OF REPORT)