

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: P830350

Luminaire Tested: **OHBL-36HE-N-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36HE-N-UNV-L850-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

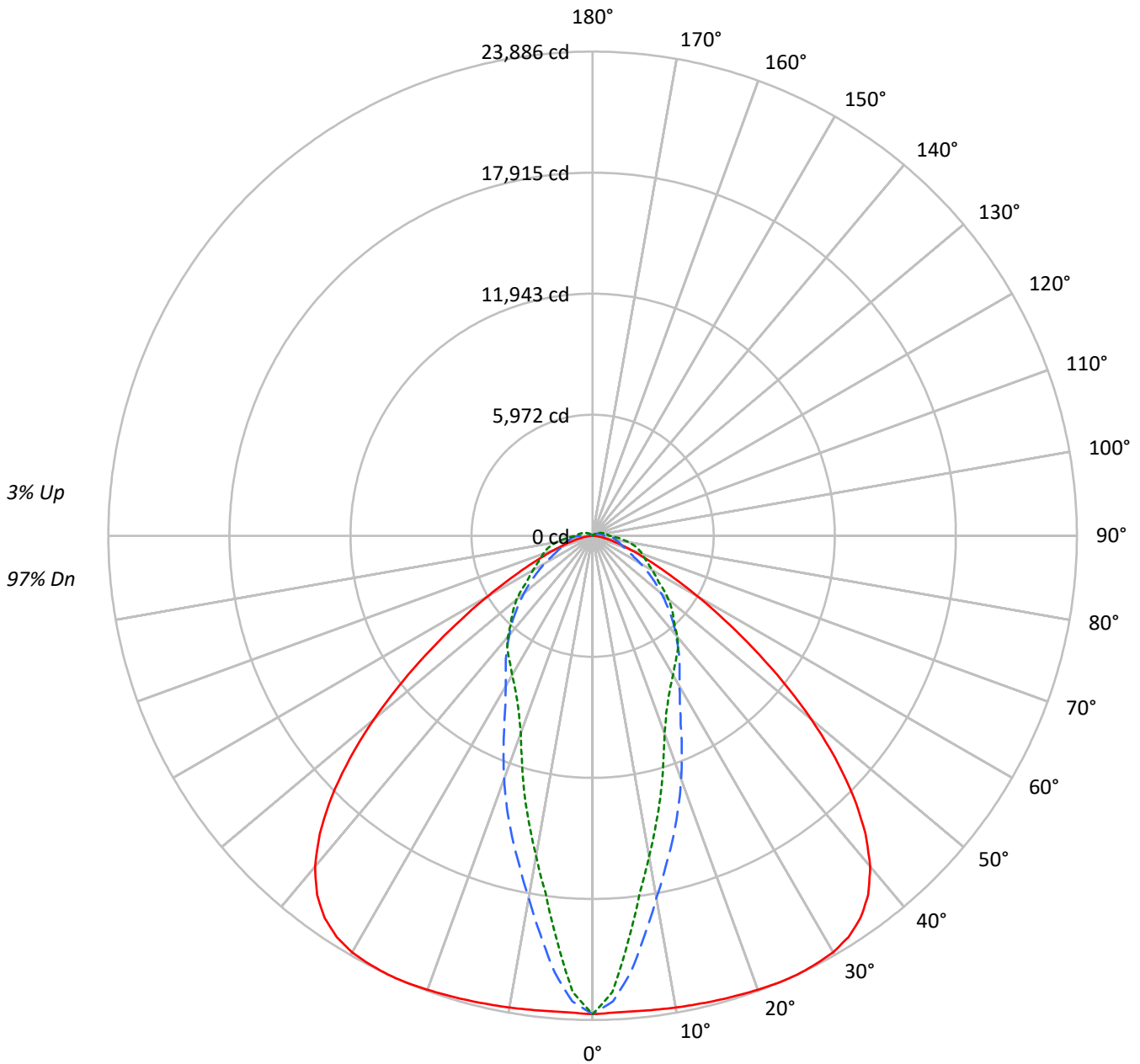
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34826.0 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 212
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: P830350
CATALOG NUMBER: OHBL-36HE-N-UNV-L850-CD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37317	37317	37317
5°	37241	33999	31617
10°	37662	28652	25368
15°	38397	24515	20835
20°	39476	20739	16863
25°	40841	17174	14786
30°	42253	14803	13746
35°	43132	13499	13107
40°	42394	12201	12446
45°	39000	11033	11534
50°	32904	9756	10838
55°	25002	8553	9658
60°	17521	7344	9262
65°	11786	6335	9087
70°	8049	5957	9561
75°	5585	6162	10259
80°	3845	6857	10634
85°	2249	8654	11303



TEST NUMBER: P830350

CATALOG NUMBER: OHBL-36HE-N-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1986.3	5.7
10°-20°	4672.7	13.4
20°-30°	5857.2	16.8
30°-40°	6215.2	17.8
40°-50°	5619.5	16.1
50°-60°	4074.5	11.7
60°-70°	2557.0	7.3
70°-80°	1692.1	4.9
80°-90°	974.8	2.8
90°-100°	472.3	1.4
100°-110°	326.0	0.9
110°-120°	201.1	0.6
120°-130°	97.4	0.3
130°-140°	44.8	0.1
140°-150°	24.5	0.1
150°-160°	10.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	12516.3	35.9
0°-40°	18731.4	53.8
0°-60°	28425.4	81.6
0°-90°	33649.3	96.6
90°-120°	999.4	2.9
90°-150°	1166.1	3.3
90°-180°	1177.0	3.4
0°-180°	34826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23596	23596	23596	23596	23596	
5°	23549	22945	21598	20596	20077	###
15°	23729	19341	15361	13661	13041	6729
25°	23886	14955	10286	9129	8839	11035
35°	23030	9942	7465	7231	7229	14317
45°	18207	6297	5410	5540	5635	13870
55°	9639	3903	3530	3829	3966	8709
65°	3447	2264	2044	2619	2910	3587
75°	1064	1220	1372	2131	2259	1187
85°	186	505	1004	1397	1282	223
90°	0	211	582	820	826	12
95°	9	148	512	696	728	8
105°	18	99	373	494	508	18
115°	25	70	252	314	321	24
125°	27	36	128	162	160	23
135°	22	27	56	88	88	18
145°	27	29	34	52	49	16
155°	27	34	36	38	34	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23596.5	23596.5	23596.5	23596.5	23596.5
2.5°	23547.1	23412.3	22992.4	22736.3	22520.7
5°	23549.3	22945.2	21597.7	20596.1	20077.3
7.5°	23583.0	22240.0	19812.3	18350.3	17779.9
10°	23634.7	21366.4	18145.9	16587.4	16055.1
12.5°	23672.8	20382.8	16679.5	15078.2	14494.3
15°	23729.0	19340.7	15361.2	13661.1	13041.3
17.5°	23780.6	18359.3	14058.6	12282.2	11592.7
20°	23832.3	17301.5	12756.1	10925.7	10357.6
22.5°	23881.7	16185.4	11484.9	9872.5	9484.0
25°	23886.2	14954.7	10285.7	9129.1	8839.4
27.5°	23827.8	13679.1	9313.3	8507.0	8327.4
30°	23726.7	12441.7	8558.7	8057.9	7929.9
32.5°	23475.2	11179.5	7974.8	7624.4	7550.3
35°	23030.5	9942.1	7465.0	7231.4	7229.2
37.5°	22329.8	8843.9	6912.5	6872.1	6921.5
40°	21294.5	7882.7	6389.3	6497.1	6497.1
42.5°	19913.4	7047.3	5915.4	6025.4	5996.2
45°	18206.6	6297.2	5410.1	5540.4	5634.7
47.5°	16228.0	5636.9	4893.6	5145.1	5275.4
50°	14076.6	5008.1	4422.0	4743.1	4891.3
52.5°	11821.8	4426.4	3961.6	4329.9	4448.9
55°	9638.9	3903.2	3530.4	3829.1	3966.1
57.5°	7662.6	3404.6	3108.2	3391.1	3674.1
60°	5962.6	2975.7	2710.7	3114.9	3397.9
62.5°	4554.5	2593.9	2337.9	2856.6	3139.6
65°	3447.3	2263.8	2043.7	2618.6	2910.5
67.5°	2598.4	1978.5	1814.6	2445.7	2730.9
70°	1951.6	1702.3	1630.4	2337.9	2593.9
72.5°	1441.8	1448.5	1484.5	2243.5	2438.9
75°	1064.5	1219.5	1372.2	2131.3	2259.3
77.5°	761.3	1010.6	1271.1	1996.5	2041.4
80°	527.8	824.2	1165.6	1819.1	1780.9
82.5°	330.1	660.3	1071.2	1623.7	1518.2
85°	186.4	505.3	1003.9	1396.9	1282.3
87.5°	83.1	377.3	878.1	1089.2	1017.3
90°	0.0	211.1	581.7	819.7	826.4
92.5°	4.5	175.2	536.7	750.1	772.6
95°	9.0	148.2	512.0	696.2	727.6
97.5°	11.2	130.3	480.6	646.8	673.7
100°	13.5	116.8	442.4	595.1	617.6
102.5°	15.7	107.8	406.5	541.2	559.2
105°	18.0	98.8	372.8	494.1	507.5



TEST NUMBER: P830350

CATALOG NUMBER: OHBL-36HE-N-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.5	76.4	280.7	354.8	366.1
115°	24.7	69.6	251.5	314.4	321.1
117.5°	26.9	60.6	220.1	276.2	278.5
120°	26.9	53.9	188.6	235.8	235.8
122.5°	26.9	44.9	157.2	195.4	193.1
125°	26.9	35.9	128.0	161.7	159.5
127.5°	24.7	29.2	103.3	134.7	132.5
130°	24.7	29.2	83.1	114.5	114.5
132.5°	22.5	26.9	67.4	98.8	98.8
135°	22.5	26.9	56.1	87.6	87.6
137.5°	22.5	29.2	47.2	76.4	76.4
140°	22.5	26.9	40.4	67.4	67.4
142.5°	24.7	26.9	35.9	58.4	58.4
145°	26.9	29.2	33.7	51.7	49.4
147.5°	26.9	31.4	33.7	44.9	42.7
150°	26.9	33.7	33.7	40.4	38.2
152.5°	26.9	33.7	33.7	38.2	35.9
155°	26.9	33.7	35.9	38.2	33.7
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°	18.0	92.1	341.4	442.4	458.1
110°	20.2	83.1	312.2	395.3	411.0



(END OF REPORT)