

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: P830422

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830422
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-36SE-N-UNV-L850-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

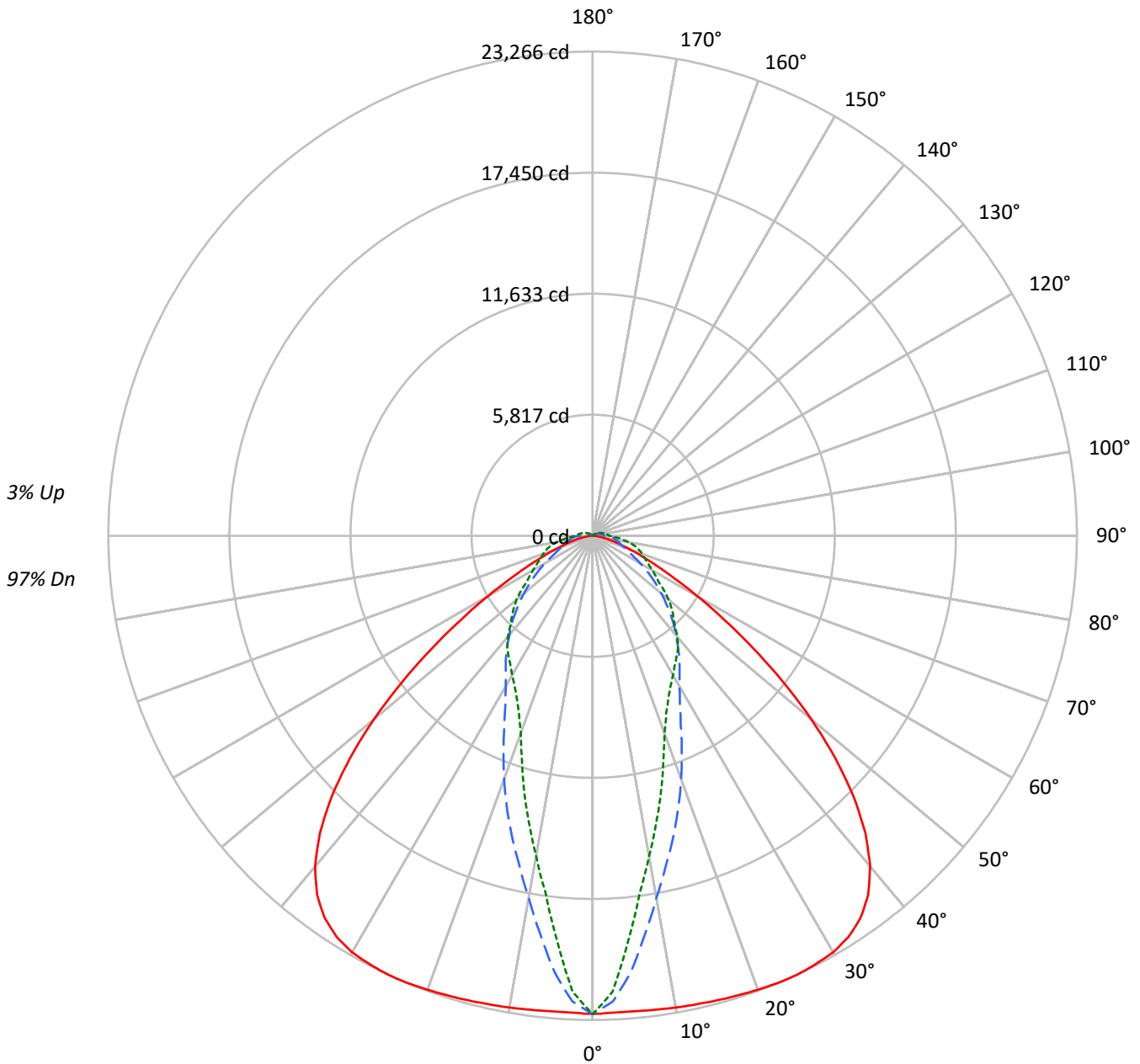
Lumens per Lamp: N/A
Luminaire Lumens: 33921.0 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 211
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: P830422

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

Luminous Intensity Polar Plot





TEST NUMBER: P830422

CATALOG NUMBER: OHBL-36SE-N-UNV-L850-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36348	36348	36348
5°	36274	33116	30795
10°	36683	27907	24709
15°	37399	23878	20294
20°	38450	20200	16425
25°	39780	16728	14402
30°	41155	14419	13389
35°	42011	13148	12766
40°	41292	11884	12122
45°	37987	10747	11234
50°	32049	9502	10556
55°	24353	8331	9407
60°	17066	7153	9021
65°	11480	6170	8851
70°	7840	5802	9313
75°	5440	6002	9993
80°	3745	6679	10358
85°	2191	8429	11009



TEST NUMBER: P830422

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1934.7	5.7
10°-20°	4551.3	13.4
20°-30°	5705.0	16.8
30°-40°	6053.6	17.8
40°-50°	5473.5	16.1
50°-60°	3968.6	11.7
60°-70°	2490.5	7.3
70°-80°	1648.1	4.9
80°-90°	949.5	2.8
90°-100°	460.0	1.4
100°-110°	317.5	0.9
110°-120°	195.9	0.6
120°-130°	94.9	0.3
130°-140°	43.6	0.1
140°-150°	23.8	0.1
150°-160°	10.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<hr/>		
0°-30°	12191.0	35.9
0°-40°	18244.6	53.8
0°-60°	27686.7	81.6
0°-90°	32774.8	96.6
90°-120°	973.4	2.9
90°-150°	1135.8	3.3
90°-180°	1146.0	3.4
0°-180°	33921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22983	22983	22983	22983	22983	
5°	22937	22349	21036	20061	19556	###
15°	23112	18838	14962	13306	12702	6554
25°	23266	14566	10018	8892	8610	10748
35°	22432	9684	7271	7044	7041	13945
45°	17734	6134	5270	5396	5488	13509
55°	9388	3802	3439	3730	3863	8483
65°	3358	2205	1991	2550	2835	3494
75°	1037	1188	1336	2076	2201	1156
85°	182	492	978	1361	1249	218
90°	0	206	566	798	805	12
95°	9	144	499	678	709	8
105°	18	96	363	481	494	18
115°	24	68	245	306	313	24
125°	26	35	125	158	155	23
135°	22	26	55	85	85	17
145°	26	28	33	50	48	16
155°	26	33	35	37	33	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830422

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22983.3	22983.3	22983.3	22983.3	22983.3
2.5°	22935.2	22803.9	22394.9	22145.5	21935.5
5°	22937.4	22348.9	21036.5	20060.9	19555.6
7.5°	22970.2	21662.1	19297.5	17873.5	17317.9
10°	23020.5	20811.2	17674.4	16156.3	15637.9
12.5°	23057.7	19853.1	16246.0	14686.4	14117.6
15°	23112.3	18838.1	14962.0	13306.1	12702.4
17.5°	23162.7	17882.2	13693.3	11963.0	11291.5
20°	23213.0	16851.9	12424.6	10641.8	10088.4
22.5°	23261.1	15764.8	11186.5	9615.9	9237.5
25°	23265.5	14566.1	10018.4	8891.9	8609.7
27.5°	23208.6	13323.6	9071.3	8286.0	8111.0
30°	23110.2	12118.3	8336.3	7848.5	7723.8
32.5°	22865.2	10889.0	7767.6	7426.3	7354.1
35°	22432.1	9683.7	7271.0	7043.5	7041.3
37.5°	21749.6	8614.1	6732.9	6693.5	6741.6
40°	20741.2	7677.9	6223.2	6328.2	6328.2
42.5°	19395.9	6864.1	5761.7	5868.9	5840.4
45°	17733.5	6133.5	5269.5	5396.4	5488.3
47.5°	15806.3	5490.4	4766.4	5011.4	5138.3
50°	13710.8	4878.0	4307.0	4619.8	4764.2
52.5°	11514.6	4311.4	3858.6	4217.4	4333.3
55°	9388.4	3801.7	3438.6	3729.6	3863.0
57.5°	7463.5	3316.1	3027.4	3303.0	3578.6
60°	5807.6	2898.3	2640.2	3034.0	3309.6
62.5°	4436.1	2526.5	2277.1	2782.4	3058.0
65°	3357.7	2204.9	1990.6	2550.5	2834.9
67.5°	2530.9	1927.1	1767.4	2382.1	2659.9
70°	1900.9	1658.1	1588.1	2277.1	2526.5
72.5°	1404.3	1410.9	1445.9	2185.2	2375.5
75°	1036.8	1187.8	1336.5	2075.9	2200.6
77.5°	741.5	984.3	1238.1	1944.6	1988.4
80°	514.0	802.8	1135.3	1771.8	1734.6
82.5°	321.6	643.1	1043.4	1581.5	1478.7
85°	181.6	492.2	977.8	1360.6	1249.0
87.5°	80.9	367.5	855.3	1060.9	990.9
90°	0.0	205.6	566.5	798.4	805.0
92.5°	4.4	170.6	522.8	730.6	752.5
95°	8.7	144.4	498.7	678.1	708.7
97.5°	10.9	126.9	468.1	630.0	656.2
100°	13.1	113.7	430.9	579.7	601.5
102.5°	15.3	105.0	395.9	527.2	544.7
105°	17.5	96.2	363.1	481.2	494.4



TEST NUMBER: P830422

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.9	74.4	273.4	345.6	356.6
115°	24.1	67.8	245.0	306.2	312.8
117.5°	26.2	59.1	214.4	269.1	271.2
120°	26.2	52.5	183.7	229.7	229.7
122.5°	26.2	43.7	153.1	190.3	188.1
125°	26.2	35.0	124.7	157.5	155.3
127.5°	24.1	28.4	100.6	131.2	129.1
130°	24.1	28.4	80.9	111.6	111.6
132.5°	21.9	26.2	65.6	96.2	96.2
135°	21.9	26.2	54.7	85.3	85.3
137.5°	21.9	28.4	45.9	74.4	74.4
140°	21.9	26.2	39.4	65.6	65.6
142.5°	24.1	26.2	35.0	56.9	56.9
145°	26.2	28.4	32.8	50.3	48.1
147.5°	26.2	30.6	32.8	43.7	41.6
150°	26.2	32.8	32.8	39.4	37.2
152.5°	26.2	32.8	32.8	37.2	35.0
155°	26.2	32.8	35.0	37.2	32.8
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°	17.5	89.7	332.5	430.9	446.2
110°	19.7	80.9	304.1	385.0	400.3



(END OF REPORT)