

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: P830419

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830419
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-L830-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

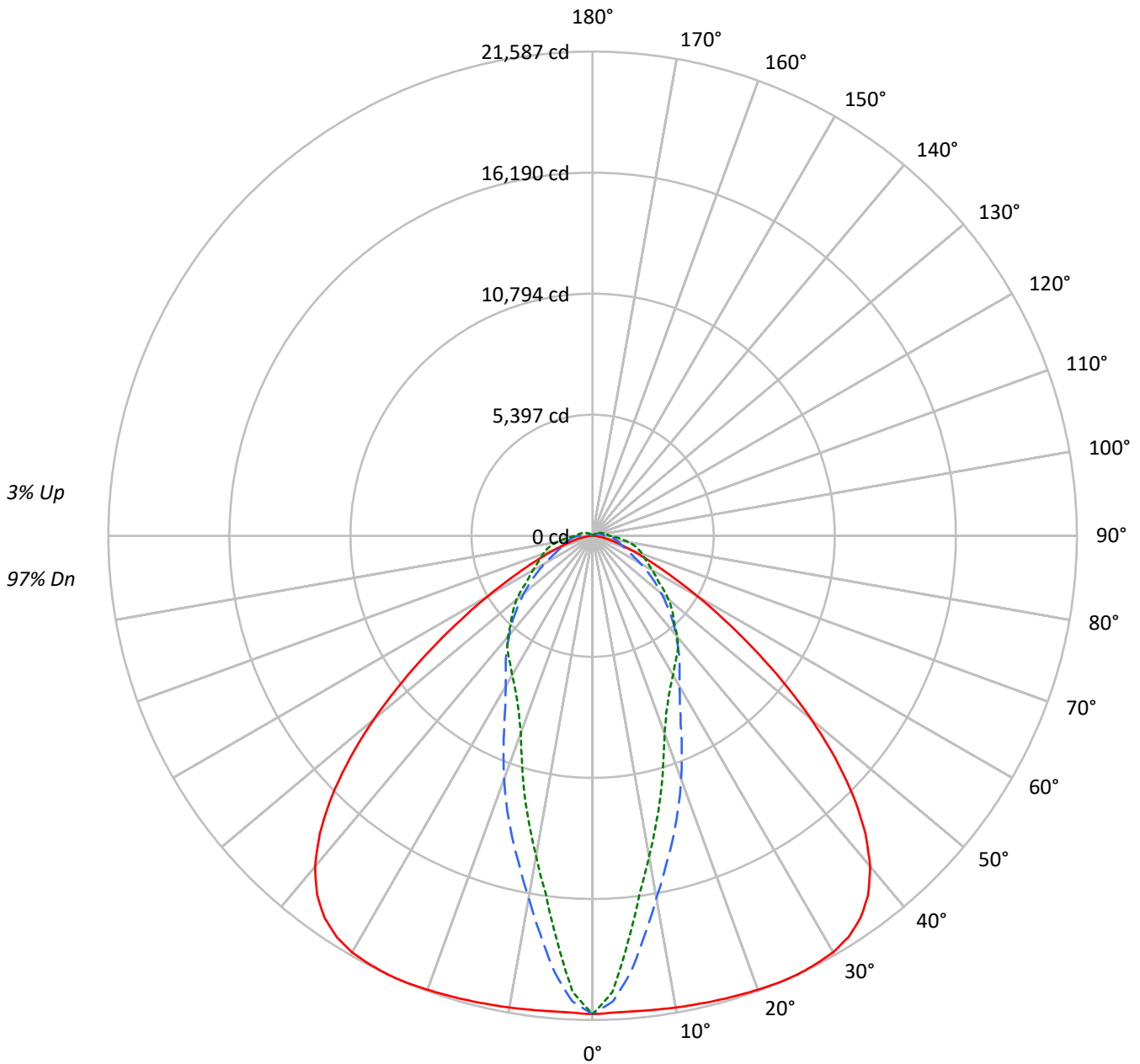
Lumens per Lamp: N/A
Luminaire Lumens: 31474.0 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830419

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

Luminous Intensity Polar Plot





TEST NUMBER: P830419

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

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°	33725	33725	33725
5°	33657	30727	28574
10°	34037	25894	22926
15°	34701	22156	18830
20°	35676	18742	15240
25°	36910	15521	13363
30°	38186	13378	12423
35°	38980	12199	11845
40°	38313	11027	11248
45°	35247	9972	10424
50°	29737	8817	9795
55°	22596	7730	8728
60°	15835	6637	8370
65°	10651	5725	8212
70°	7274	5384	8641
75°	5048	5569	9272
80°	3475	6197	9611
85°	2033	7821	10215



TEST NUMBER: P830419

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1795.1	5.7
10°-20°	4223.0	13.4
20°-30°	5293.4	16.8
30°-40°	5616.9	17.8
40°-50°	5078.6	16.1
50°-60°	3682.3	11.7
60°-70°	2310.8	7.3
70°-80°	1529.2	4.9
80°-90°	881.0	2.8
90°-100°	426.8	1.4
100°-110°	294.6	0.9
110°-120°	181.8	0.6
120°-130°	88.1	0.3
130°-140°	40.5	0.1
140°-150°	22.1	0.1
150°-160°	9.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<hr/>		
0°-30°	11311.6	35.9
0°-40°	16928.5	53.8
0°-60°	25689.4	81.6
0°-90°	30410.5	96.6
90°-120°	903.2	2.9
90°-150°	1053.9	3.3
90°-180°	1063.0	3.4
0°-180°	31474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21325	21325	21325	21325	21325	
5°	21283	20737	19519	18614	18145	###
15°	21445	17479	13883	12346	11786	6082
25°	21587	13515	9296	8250	7989	9973
35°	20814	8985	6746	6535	6533	12939
45°	16454	5691	4889	5007	5092	12535
55°	8711	3528	3191	3460	3584	7871
65°	3116	2046	1847	2366	2630	3242
75°	962	1102	1240	1926	2042	1072
85°	168	457	907	1262	1159	202
90°	0	191	526	741	747	11
95°	8	134	463	629	658	7
105°	16	89	337	446	459	16
115°	22	63	227	284	290	22
125°	24	32	116	146	144	21
135°	20	24	51	79	79	16
145°	24	26	30	47	45	15
155°	24	30	32	34	30	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830419

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21325.3	21325.3	21325.3	21325.3	21325.3
2.5°	21280.7	21158.9	20779.3	20548.0	20353.1
5°	21282.7	20736.7	19518.9	18613.7	18144.9
7.5°	21313.1	20099.4	17905.4	16584.1	16068.6
10°	21359.8	19309.9	16399.4	14990.8	14509.8
12.5°	21394.3	18420.9	15074.1	13626.9	13099.2
15°	21445.1	17479.2	13882.7	12346.2	11786.1
17.5°	21491.7	16592.2	12705.5	11100.0	10476.9
20°	21538.4	15636.3	11528.3	9874.1	9360.6
22.5°	21583.1	14627.5	10379.5	8922.2	8571.1
25°	21587.1	13515.3	9295.7	8250.4	7988.6
27.5°	21534.4	12362.5	8416.9	7688.2	7525.9
30°	21443.0	11244.1	7734.9	7282.3	7166.6
32.5°	21215.7	10103.5	7207.2	6890.6	6823.6
35°	20813.8	8985.2	6746.5	6535.4	6533.4
37.5°	20180.6	7992.7	6247.2	6210.7	6255.3
40°	19244.9	7124.0	5774.3	5871.7	5871.7
42.5°	17996.7	6369.0	5346.0	5445.5	5419.1
45°	16454.2	5691.1	4889.4	5007.1	5092.3
47.5°	14666.1	5094.4	4422.6	4649.9	4767.6
50°	12721.7	4526.1	3996.3	4286.6	4420.5
52.5°	10684.0	4000.4	3580.3	3913.1	4020.7
55°	8711.2	3527.5	3190.6	3460.5	3584.3
57.5°	6925.1	3076.9	2809.0	3064.7	3320.5
60°	5388.7	2689.3	2449.8	2815.1	3070.8
62.5°	4116.1	2344.2	2112.8	2581.7	2837.4
65°	3115.5	2045.9	1847.0	2366.5	2630.4
67.5°	2348.3	1788.1	1639.9	2210.3	2468.0
70°	1763.7	1538.5	1473.5	2112.8	2344.2
72.5°	1303.0	1309.1	1341.6	2027.6	2204.2
75°	962.0	1102.1	1240.1	1926.1	2041.8
77.5°	688.0	913.3	1148.8	1804.3	1844.9
80°	477.0	744.9	1053.4	1644.0	1609.5
82.5°	298.4	596.7	968.1	1467.4	1372.0
85°	168.5	456.7	907.2	1262.4	1158.9
87.5°	75.1	341.0	793.6	984.4	919.4
90°	0.0	190.8	525.7	740.8	746.9
92.5°	4.1	158.3	485.1	677.9	698.2
95°	8.1	134.0	462.8	629.2	657.6
97.5°	10.1	117.7	434.3	584.5	608.9
100°	12.2	105.5	399.8	537.9	558.1
102.5°	14.2	97.4	367.4	489.1	505.4
105°	16.2	89.3	336.9	446.5	458.7



TEST NUMBER: P830419

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.3	69.0	253.7	320.7	330.8
115°	22.3	62.9	227.3	284.1	290.2
117.5°	24.4	54.8	198.9	249.6	251.7
120°	24.4	48.7	170.5	213.1	213.1
122.5°	24.4	40.6	142.1	176.6	174.5
125°	24.4	32.5	115.7	146.1	144.1
127.5°	22.3	26.4	93.4	121.8	119.7
130°	22.3	26.4	75.1	103.5	103.5
132.5°	20.3	24.4	60.9	89.3	89.3
135°	20.3	24.4	50.7	79.2	79.2
137.5°	20.3	26.4	42.6	69.0	69.0
140°	20.3	24.4	36.5	60.9	60.9
142.5°	22.3	24.4	32.5	52.8	52.8
145°	24.4	26.4	30.4	46.7	44.7
147.5°	24.4	28.4	30.4	40.6	38.6
150°	24.4	30.4	30.4	36.5	34.5
152.5°	24.4	30.4	30.4	34.5	32.5
155°	24.4	30.4	32.5	34.5	30.4
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°	16.2	83.2	308.5	399.8	414.0
110°	18.3	75.1	282.1	357.2	371.4



(END OF REPORT)