

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: P830421

Luminaire Tested: **OHBL-36SE-N-UNV-L840-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830421
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-L840-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

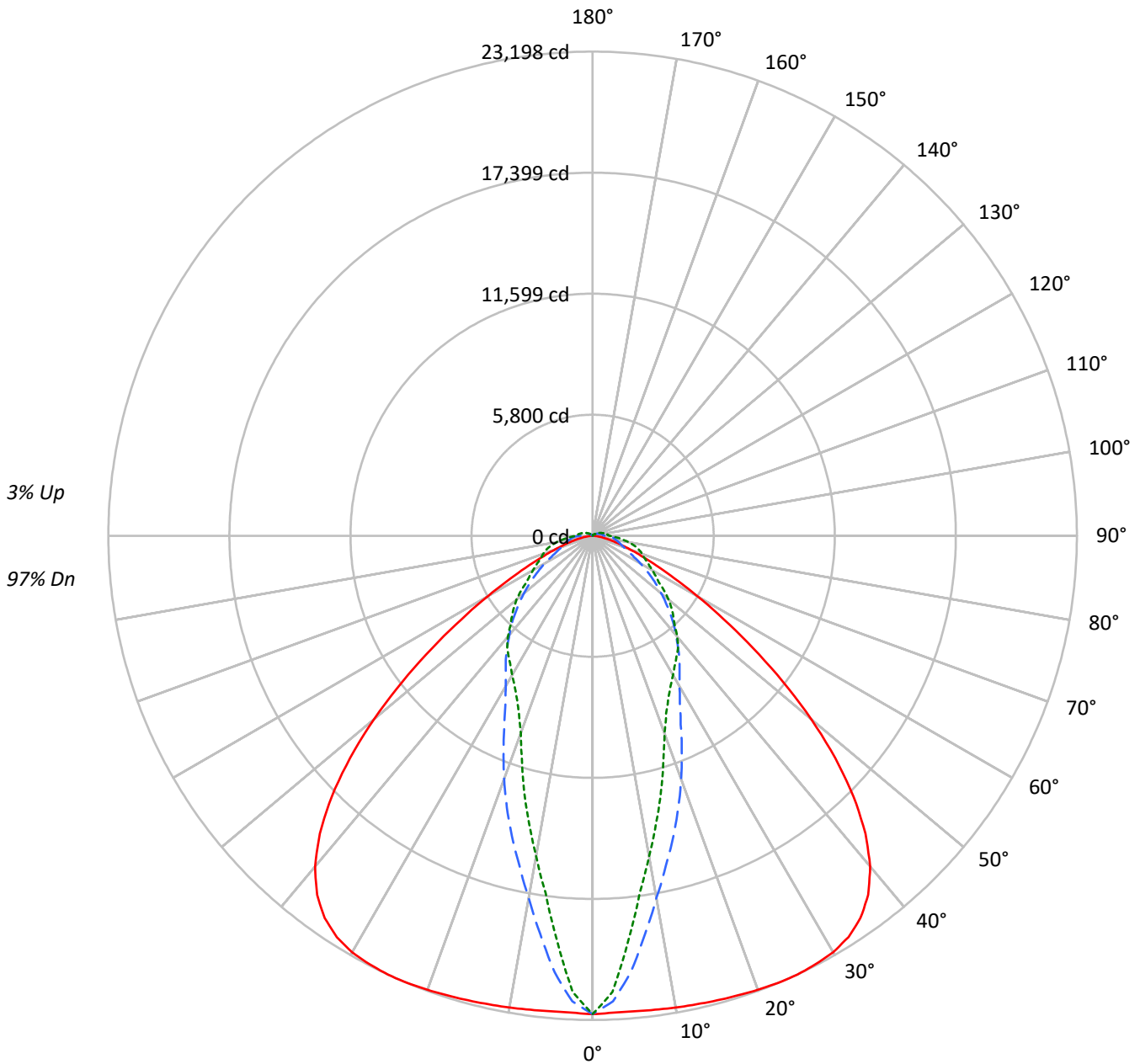
Lumens per Lamp: N/A
Luminaire Lumens: 33823.0 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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

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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	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	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	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	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	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	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	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	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	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	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	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	32	32	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36243	36243	36243
5°	36169	33020	30706
10°	36577	27826	24638
15°	37291	23809	20235
20°	38339	20141	16377
25°	39665	16680	14360
30°	41036	14377	13350
35°	41890	13110	12729
40°	41173	11849	12087
45°	37877	10716	11202
50°	31957	9475	10526
55°	24282	8307	9380
60°	17017	7133	8995
65°	11446	6152	8825
70°	7817	5786	9286
75°	5424	5984	9964
80°	3735	6659	10328
85°	2184	8405	10978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1929.1	5.7
10°-20°	4538.1	13.4
20°-30°	5688.5	16.8
30°-40°	6036.2	17.8
40°-50°	5457.6	16.1
50°-60°	3957.2	11.7
60°-70°	2483.3	7.3
70°-80°	1643.4	4.9
80°-90°	946.7	2.8
90°-100°	458.7	1.4
100°-110°	316.6	0.9
110°-120°	195.4	0.6
120°-130°	94.6	0.3
130°-140°	43.5	0.1
140°-150°	23.8	0.1
150°-160°	10.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12155.8	35.9
0°-40°	18191.9	53.8
0°-60°	27606.7	81.6
0°-90°	32680.1	96.6
90°-120°	970.6	2.9
90°-150°	1132.5	3.3
90°-180°	1143.0	3.4
0°-180°	33823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22917	22917	22917	22917	22917	
5°	22871	22284	20976	20003	19499	###
15°	23046	18784	14919	13268	12666	6536
25°	23198	14524	9990	8866	8585	10717
35°	22367	9656	7250	7023	7021	13905
45°	17682	6116	5254	5381	5472	13470
55°	9361	3791	3429	3719	3852	8458
65°	3348	2199	1985	2543	2827	3484
75°	1034	1184	1333	2070	2194	1152
85°	181	491	975	1357	1245	217
90°	0	205	565	796	803	12
95°	9	144	497	676	707	8
105°	17	96	362	480	493	18
115°	24	68	244	305	312	24
125°	26	35	124	157	155	23
135°	22	26	54	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22916.9	22916.9	22916.9	22916.9	22916.9
2.5°	22868.9	22738.0	22330.2	22081.5	21872.1
5°	22871.1	22284.4	20975.7	20002.9	19499.1
7.5°	22903.8	21599.5	19241.7	17821.8	17267.8
10°	22954.0	20751.0	17623.3	16109.7	15592.7
12.5°	22991.0	19795.7	16199.1	14643.9	14076.9
15°	23045.6	18783.7	14918.8	13267.7	12665.7
17.5°	23095.7	17830.5	13653.7	11928.5	11258.9
20°	23145.9	16803.2	12388.7	10611.1	10059.3
22.5°	23193.9	15719.2	11154.2	9588.1	9210.8
25°	23198.2	14524.0	9989.5	8866.2	8584.8
27.5°	23141.5	13285.1	9045.0	8262.0	8087.5
30°	23043.4	12083.3	8312.2	7825.8	7701.5
32.5°	22799.1	10857.5	7745.1	7404.9	7332.9
35°	22367.2	9655.8	7250.0	7023.2	7021.0
37.5°	21686.7	8589.2	6713.4	6674.2	6722.2
40°	20681.3	7655.7	6205.2	6309.9	6309.9
42.5°	19339.9	6844.3	5745.0	5851.9	5823.6
45°	17682.2	6115.8	5254.3	5380.8	5472.4
47.5°	15760.7	5474.6	4752.6	4996.9	5123.4
50°	13671.2	4863.9	4294.6	4606.5	4750.5
52.5°	11481.3	4299.0	3847.5	4205.2	4320.8
55°	9361.3	3790.8	3428.7	3718.8	3851.8
57.5°	7441.9	3306.6	3018.7	3293.5	3568.3
60°	5790.8	2890.0	2632.6	3025.2	3300.0
62.5°	4423.3	2519.2	2270.5	2774.4	3049.2
65°	3348.0	2198.6	1984.8	2543.2	2826.7
67.5°	2523.5	1921.6	1762.3	2375.2	2652.2
70°	1895.4	1653.3	1583.5	2270.5	2519.2
72.5°	1400.3	1406.8	1441.7	2178.9	2368.7
75°	1033.8	1184.3	1332.7	2069.9	2194.2
77.5°	739.4	981.5	1234.5	1939.0	1982.6
80°	512.6	800.5	1132.0	1766.7	1729.6
82.5°	320.6	641.2	1040.4	1576.9	1474.4
85°	181.0	490.7	975.0	1356.6	1245.4
87.5°	80.7	366.4	852.8	1057.8	988.0
90°	0.0	205.0	564.9	796.1	802.6
92.5°	4.4	170.1	521.3	728.5	750.3
95°	8.7	144.0	497.3	676.1	706.7
97.5°	10.9	126.5	466.8	628.2	654.3
100°	13.1	113.4	429.7	578.0	599.8
102.5°	15.3	104.7	394.8	525.6	543.1
105°	17.4	96.0	362.1	479.8	492.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.8	74.2	272.6	344.6	355.5
115°	24.0	67.6	244.3	305.4	311.9
117.5°	26.2	58.9	213.7	268.3	270.5
120°	26.2	52.3	183.2	229.0	229.0
122.5°	26.2	43.6	152.7	189.8	187.6
125°	26.2	34.9	124.3	157.0	154.9
127.5°	24.0	28.4	100.3	130.9	128.7
130°	24.0	28.4	80.7	111.2	111.2
132.5°	21.8	26.2	65.4	96.0	96.0
135°	21.8	26.2	54.5	85.1	85.1
137.5°	21.8	28.4	45.8	74.2	74.2
140°	21.8	26.2	39.3	65.4	65.4
142.5°	24.0	26.2	34.9	56.7	56.7
145°	26.2	28.4	32.7	50.2	48.0
147.5°	26.2	30.5	32.7	43.6	41.4
150°	26.2	32.7	32.7	39.3	37.1
152.5°	26.2	32.7	32.7	37.1	34.9
155°	26.2	32.7	34.9	37.1	32.7
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°	17.4	89.4	331.5	429.7	444.9
110°	19.6	80.7	303.2	383.9	399.1



(END OF REPORT)