

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: P829699

Luminaire Tested: **OHBL-100SE-N-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829699
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-100SE-N-UNV-L830-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

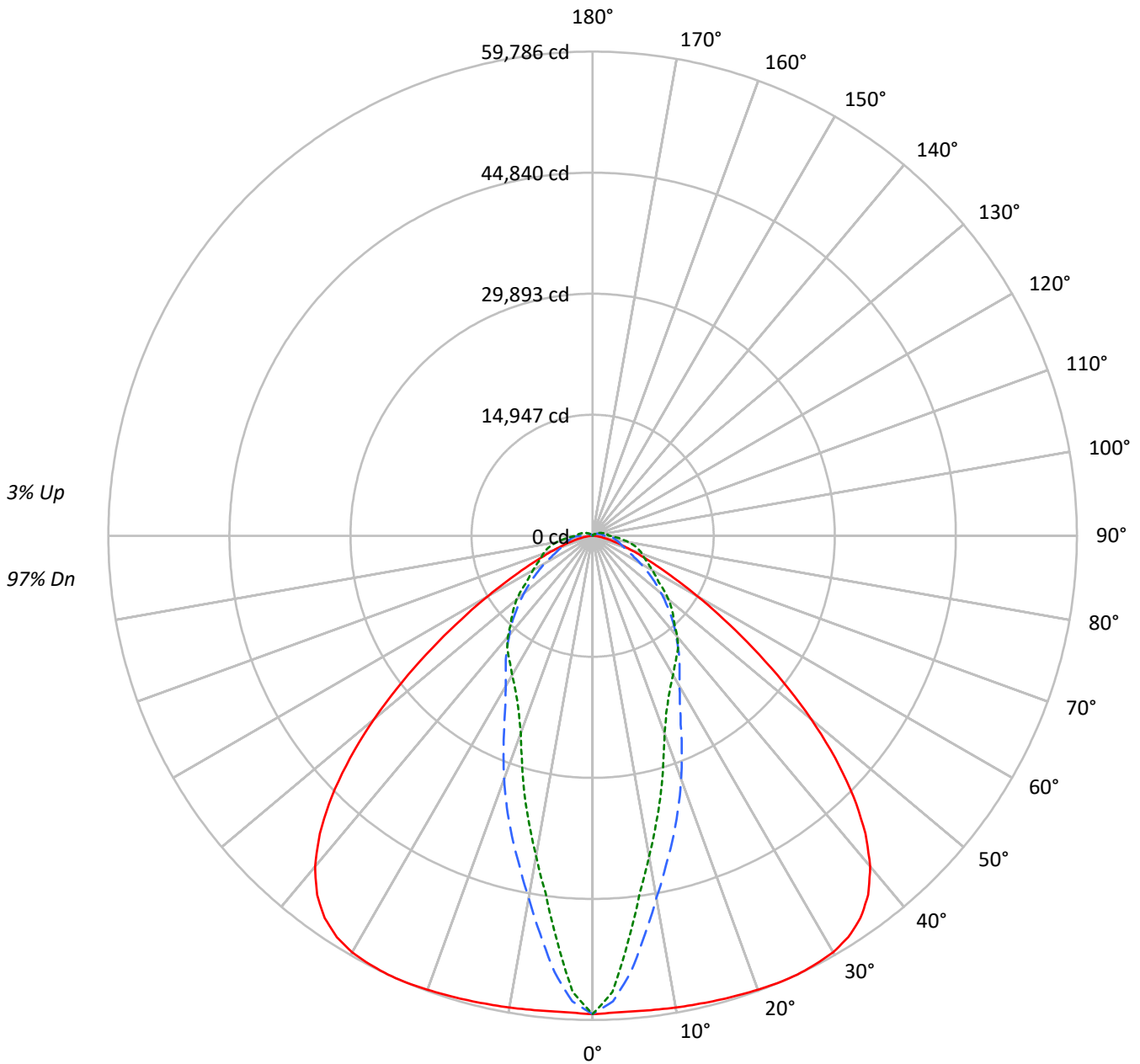
Lumens per Lamp: N/A
Luminaire Lumens: 87168.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
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									
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°	93404	93404	93404
5°	93213	85099	79136
10°	94265	71714	63496
15°	96106	61361	52149
20°	98806	51908	42207
25°	102223	42986	37009
30°	105757	37052	34406
35°	107957	33786	32806
40°	106110	30538	31151
45°	97616	27616	28869
50°	82358	24418	27127
55°	62580	21409	24173
60°	43855	18382	23181
65°	29499	15855	22744
70°	20146	14910	23931
75°	13980	15423	25678
80°	9624	17162	26616
85°	5630	21661	28292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4971.7	5.7
10°-20°	11695.6	13.4
20°-30°	14660.3	16.8
30°-40°	15556.3	17.8
40°-50°	14065.3	16.1
50°-60°	10198.3	11.7
60°-70°	6399.9	7.3
70°-80°	4235.3	4.9
80°-90°	2440.0	2.8
90°-100°	1182.1	1.4
100°-110°	815.9	0.9
110°-120°	503.5	0.6
120°-130°	243.8	0.3
130°-140°	112.1	0.1
140°-150°	61.3	0.1
150°-160°	26.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	31327.6	35.9
0°-40°	46883.9	53.8
0°-60°	71147.5	81.6
0°-90°	84222.7	96.6
90°-120°	2501.4	2.9
90°-150°	2918.7	3.3
90°-180°	2945.0	3.4
0°-180°	87168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	59061	59061	59061	59061	59061	
5°	58943	57431	54058	51551	50253	###
15°	59393	48409	38448	34193	32642	16843
25°	59786	37431	25745	22850	22125	27620
35°	57644	24885	18685	18100	18094	35835
45°	45570	15762	13541	13867	14103	34715
55°	24126	9770	8836	9584	9927	21798
65°	8628	5666	5115	6554	7285	8979
75°	2664	3052	3434	5334	5655	2970
85°	467	1265	2513	3496	3210	559
90°	0	528	1456	2052	2069	30
95°	22	371	1282	1742	1821	20
105°	45	247	933	1237	1270	45
115°	62	174	630	787	804	61
125°	68	90	320	405	399	59
135°	56	68	140	219	219	44
145°	68	73	84	129	124	40
155°	68	84	90	96	84	21
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°	59061.0	59061.0	59061.0	59061.0	59061.0
2.5°	58937.3	58600.0	57548.9	56908.1	56368.5
5°	58942.9	57430.8	54058.2	51551.2	50252.7
7.5°	59027.2	55665.8	49589.4	45930.1	44502.3
10°	59156.5	53479.2	45418.5	41517.5	40185.3
12.5°	59252.1	51017.2	41748.0	37740.1	36278.6
15°	59392.6	48409.0	38448.4	34193.2	32641.8
17.5°	59521.9	45952.5	35188.1	30741.8	29016.2
20°	59651.2	43305.0	31927.9	27346.7	25924.5
22.5°	59774.8	40511.3	28746.3	24710.4	23737.9
25°	59786.1	37430.9	25744.7	22849.8	22124.7
27.5°	59639.9	34238.2	23310.7	21292.8	20843.1
30°	59387.0	31140.9	21422.0	20168.5	19848.1
32.5°	58757.4	27981.9	19960.6	19083.7	18898.2
35°	57644.4	24884.6	18684.6	18100.0	18094.3
37.5°	55890.7	22135.9	17301.8	17200.6	17324.3
40°	53299.3	19730.1	15992.0	16261.9	16261.9
42.5°	49842.4	17639.0	14806.0	15081.4	15008.4
45°	45570.3	15761.6	13541.2	13867.3	14103.4
47.5°	40618.1	14109.0	12248.4	12878.0	13204.0
50°	35233.1	12535.1	11068.0	11871.8	12242.8
52.5°	29589.5	11079.2	9915.6	10837.5	11135.4
55°	24125.8	9769.5	8836.4	9584.0	9926.9
57.5°	19179.2	8521.6	7779.6	8487.9	9196.1
60°	14924.0	7448.0	6784.7	7796.5	8504.7
62.5°	11399.6	6492.4	5851.6	7150.0	7858.3
65°	8628.4	5666.1	5115.2	6554.2	7285.0
67.5°	6503.6	4952.2	4541.9	6121.4	6835.3
70°	4884.7	4260.8	4080.9	5851.6	6492.4
72.5°	3608.8	3625.6	3715.6	5615.5	6104.5
75°	2664.4	3052.3	3434.5	5334.4	5654.8
77.5°	1905.6	2529.5	3181.5	4997.2	5109.6
80°	1321.0	2062.9	2917.4	4553.1	4457.5
82.5°	826.3	1652.6	2681.3	4064.1	3799.9
85°	466.6	1264.7	2512.6	3496.3	3209.7
87.5°	208.0	944.3	2197.9	2726.2	2546.4
90°	0.0	528.4	1455.9	2051.7	2068.6
92.5°	11.2	438.4	1343.4	1877.4	1933.7
95°	22.5	371.0	1281.6	1742.5	1821.2
97.5°	28.1	326.0	1202.9	1618.9	1686.3
100°	33.7	292.3	1107.4	1489.6	1545.8
102.5°	39.3	269.8	1017.4	1354.7	1399.7
105°	45.0	247.3	933.1	1236.6	1270.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	56.2	191.1	702.6	888.1	916.2
115°	61.8	174.3	629.6	787.0	803.8
117.5°	67.5	151.8	550.9	691.4	697.0
120°	67.5	134.9	472.2	590.2	590.2
122.5°	67.5	112.4	393.5	489.0	483.4
125°	67.5	89.9	320.4	404.7	399.1
127.5°	61.8	73.1	258.6	337.3	331.6
130°	61.8	73.1	208.0	286.7	286.7
132.5°	56.2	67.5	168.6	247.3	247.3
135°	56.2	67.5	140.5	219.2	219.2
137.5°	56.2	73.1	118.0	191.1	191.1
140°	56.2	67.5	101.2	168.6	168.6
142.5°	61.8	67.5	89.9	146.1	146.1
145°	67.5	73.1	84.3	129.3	123.7
147.5°	67.5	78.7	84.3	112.4	106.8
150°	67.5	84.3	84.3	101.2	95.6
152.5°	67.5	84.3	84.3	95.6	89.9
155°	67.5	84.3	89.9	95.6	84.3
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°	45.0	230.5	854.4	1107.4	1146.7
110°	50.6	208.0	781.3	989.3	1028.7



(END OF REPORT)