

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: P829723

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-W-UNV-L830-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

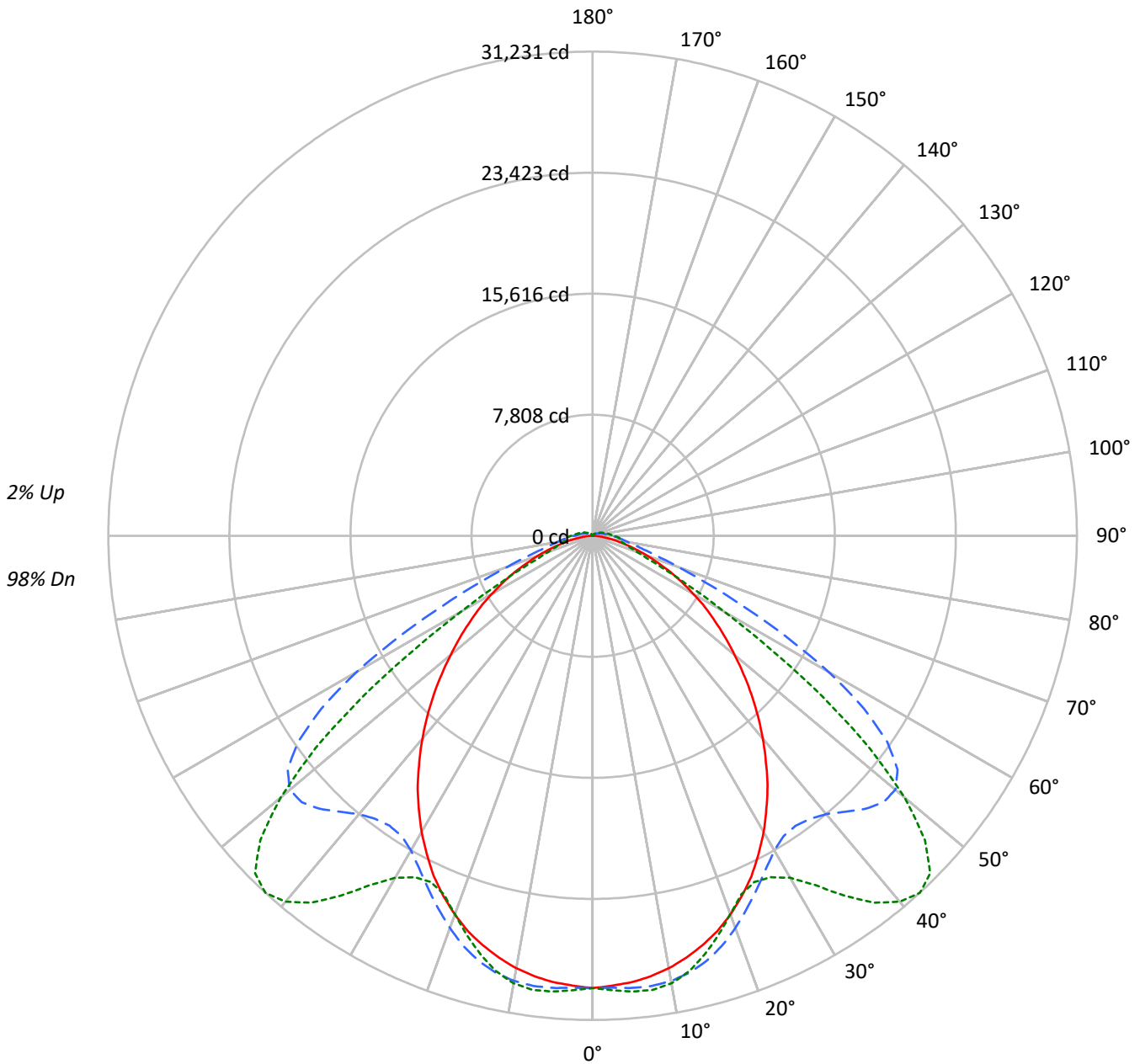
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 87349.1 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46136	46136	46136
5°	45707	46093	46466
10°	45133	46043	46324
15°	44253	45302	44646
20°	43047	43765	42270
25°	41432	41900	41229
30°	39286	40519	44144
35°	36836	41291	51375
40°	33995	44747	59031
45°	31023	50793	63015
50°	27924	56210	58170
55°	25012	56193	44019
60°	22047	47594	26592
65°	18915	32912	15858
70°	15368	21317	11206
75°	11691	15319	10060
80°	8392	13514	10749
85°	5696	14976	15146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2787.8	3.2
10°-20°	7894.2	9.0
20°-30°	11551.9	13.2
30°-40°	15002.5	17.2
40°-50°	18319.9	21.0
50°-60°	16133.6	18.5
60°-70°	8407.3	9.6
70°-80°	3605.3	4.1
80°-90°	1731.5	2.0
90°-100°	813.5	0.9
100°-110°	505.6	0.6
110°-120°	299.0	0.3
120°-130°	162.5	0.2
130°-140°	81.6	0.1
140°-150°	39.2	0.0
150°-160°	13.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22233.9	25.5
0°-40°	37236.4	42.6
0°-60°	71689.9	82.1
0°-90°	85434.0	97.8
90°-120°	1618.0	1.9
90°-150°	1901.3	2.2
90°-180°	1915.0	2.2
0°-180°	87349.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29173	29173	29173	29173	29173	
5°	28902	29123	29280	29538	29507	###
15°	27348	28116	28386	28172	27946	7700
25°	24232	25529	25094	24622	24648	11120
35°	19669	21746	22835	26630	28336	12259
45°	14483	18221	24906	30155	30784	11167
55°	9642	15962	23194	20336	18076	8654
65°	5532	11059	10618	5904	5079	5474
75°	2228	5174	3411	2335	2216	2430
85°	472	1844	1737	1699	1718	526
90°	6	667	1146	1309	1341	33
95°	13	390	913	1070	1102	9
105°	25	220	592	711	724	27
115°	38	126	365	447	460	39
125°	44	63	214	277	283	38
135°	38	38	101	170	176	29
145°	50	38	44	82	94	30
155°	50	50	38	38	38	16
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-100SE-W-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29173.0	29173.0	29173.0	29173.0	29173.0
2.5°	29047.1	29173.0	29179.3	29355.5	29336.6
5°	28902.3	29122.6	29280.0	29538.0	29506.6
7.5°	28663.2	29009.3	29286.3	29569.5	29544.3
10°	28323.3	28795.3	29160.4	29393.3	29317.7
12.5°	27882.7	28505.8	28864.6	28914.9	28770.2
15°	27347.7	28115.6	28386.2	28172.2	27945.6
17.5°	26743.5	27643.5	27737.9	27272.2	26988.9
20°	25988.2	27014.1	26919.7	26277.7	25963.0
22.5°	25151.1	26321.8	26019.6	25346.2	25044.1
25°	24232.1	25528.7	25094.4	24622.4	24647.5
27.5°	23155.8	24628.7	24207.0	24421.0	24823.8
30°	22060.7	23684.6	23426.5	24672.7	25465.8
32.5°	20858.5	22715.3	22948.1	25409.1	26705.7
35°	19668.9	21746.0	22834.9	26630.2	28335.9
37.5°	18353.5	20764.1	23017.4	28040.0	29827.6
40°	17075.8	19807.4	23432.8	29305.1	30815.7
42.5°	15772.9	18951.4	24131.4	30054.1	31231.1
45°	14482.6	18221.3	24905.6	30154.8	30784.3
47.5°	13192.4	17604.5	25440.6	29355.5	29066.0
50°	11946.1	17056.9	25478.4	27435.8	26252.5
52.5°	10781.7	16553.4	24786.0	24376.9	22539.0
55°	9642.5	15961.7	23193.6	20336.1	18076.5
57.5°	8604.0	15143.5	20738.9	15993.2	13525.9
60°	7502.5	14035.8	17566.7	11700.7	9755.8
62.5°	6489.2	12657.4	14010.6	8144.5	7011.6
65°	5532.5	11058.7	10618.1	5903.8	5079.3
67.5°	4519.1	9403.3	7836.1	4305.1	3776.4
70°	3726.1	7867.6	5834.6	3348.4	3040.0
72.5°	2914.2	6407.4	4361.8	2719.0	2549.1
75°	2228.1	5173.7	3411.4	2335.1	2215.5
77.5°	1642.7	4091.1	2744.2	2064.5	1951.2
80°	1151.8	3222.6	2297.3	1844.2	1800.1
82.5°	774.2	2492.4	1957.5	1756.0	1762.3
85°	472.1	1844.2	1737.2	1699.4	1718.3
87.5°	226.6	1309.2	1491.7	1548.3	1567.2
90°	6.3	667.2	1145.5	1309.2	1340.6
92.5°	0.0	509.8	1007.0	1170.7	1202.2
95°	12.6	390.2	912.6	1070.0	1101.5
97.5°	12.6	321.0	818.2	981.9	1000.8
100°	18.9	276.9	730.1	887.5	906.3
102.5°	18.9	245.5	654.6	793.1	805.6
105°	25.2	220.3	591.6	711.2	723.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.8	151.1	415.4	503.5	516.1
115°	37.8	125.9	365.1	446.9	459.5
117.5°	44.1	113.3	321.0	396.5	402.8
120°	44.1	94.4	276.9	352.5	358.8
122.5°	44.1	75.5	245.5	314.7	321.0
125°	44.1	62.9	214.0	276.9	283.2
127.5°	37.8	44.1	182.5	245.5	251.8
130°	37.8	37.8	151.1	214.0	226.6
132.5°	37.8	37.8	125.9	188.8	201.4
135°	37.8	37.8	100.7	169.9	176.2
137.5°	37.8	37.8	81.8	144.8	157.4
140°	37.8	37.8	62.9	125.9	132.2
142.5°	44.1	37.8	56.6	107.0	113.3
145°	50.4	37.8	44.1	81.8	94.4
147.5°	50.4	44.1	44.1	69.2	75.5
150°	50.4	50.4	37.8	50.4	62.9
152.5°	50.4	50.4	37.8	37.8	50.4
155°	50.4	50.4	37.8	37.8	37.8
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°	31.5	195.1	528.7	635.7	648.3
110°	31.5	169.9	465.8	566.5	579.1



(END OF REPORT)