

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: P829721

Luminaire Tested: **OHBL-100SE-W-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829721
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-L740-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

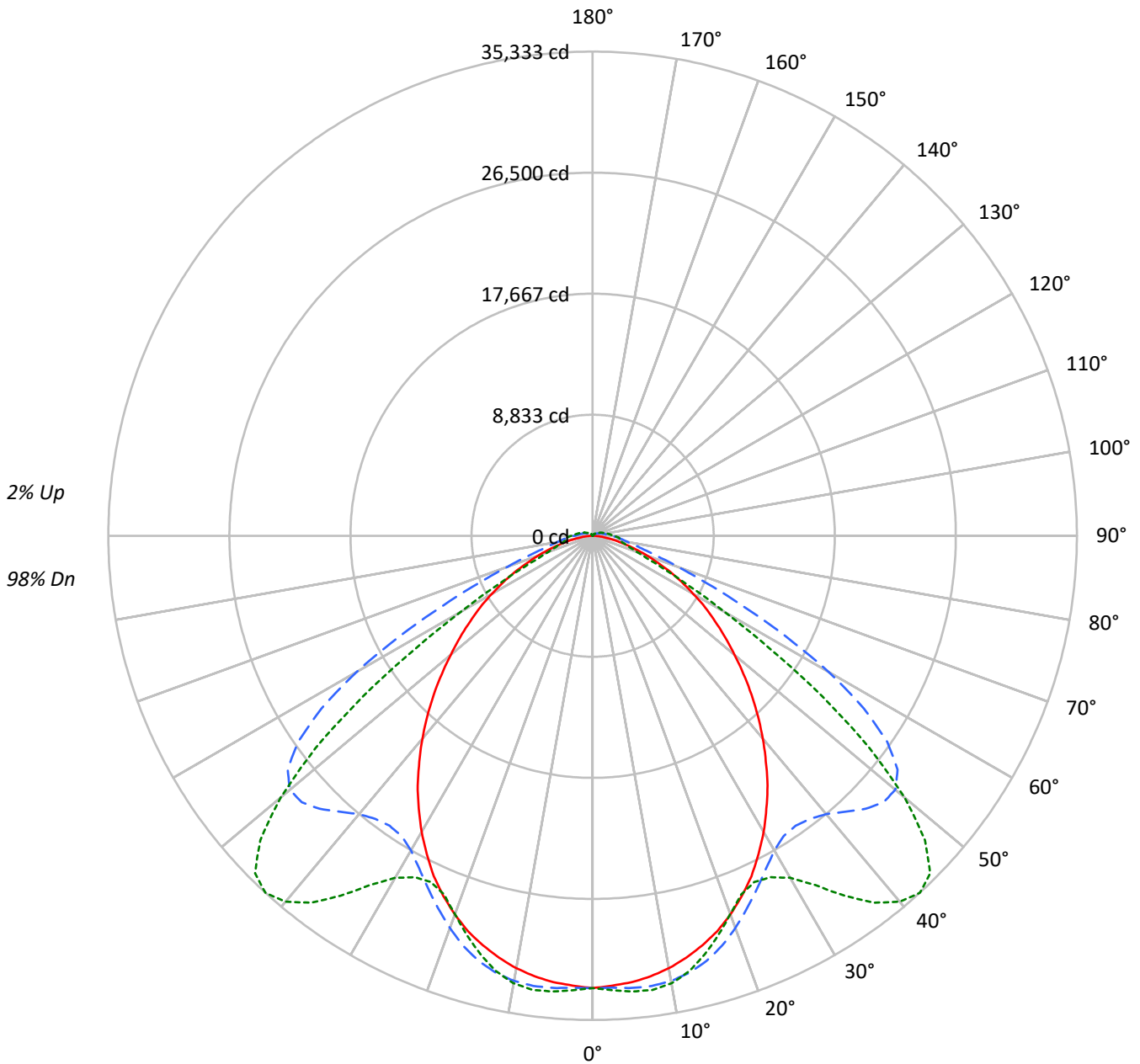
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 98822.0 lumens
Efficiency: N/A
Efficacy: 167.5 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 (Ain): 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°	52196	52196	52196
5°	51710	52147	52569
10°	51061	52091	52409
15°	50065	51253	50511
20°	48701	49514	47822
25°	46874	47404	46644
30°	44446	45841	49942
35°	41675	46714	58122
40°	38460	50624	66784
45°	35098	57464	71291
50°	31592	63593	65810
55°	28297	63573	49801
60°	24943	53846	30084
65°	21399	37234	17941
70°	17386	24117	12677
75°	13227	17331	11382
80°	9494	15289	12160
85°	6444	16943	17136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3154.0	3.2
10°-20°	8931.1	9.0
20°-30°	13069.2	13.2
30°-40°	16973.0	17.2
40°-50°	20726.2	21.0
50°-60°	18252.7	18.5
60°-70°	9511.6	9.6
70°-80°	4078.9	4.1
80°-90°	1958.9	2.0
90°-100°	920.3	0.9
100°-110°	572.0	0.6
110°-120°	338.2	0.3
120°-130°	183.8	0.2
130°-140°	92.3	0.1
140°-150°	44.4	0.0
150°-160°	15.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	25154.2	25.5
0°-40°	42127.3	42.6
0°-60°	81106.2	82.1
0°-90°	96655.5	97.8
90°-120°	1830.5	1.9
90°-150°	2151.0	2.2
90°-180°	2166.0	2.2
0°-180°	98822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33005	33005	33005	33005	33005	
5°	32699	32948	33126	33418	33382	###
15°	30940	31808	32115	31872	31616	8712
25°	27415	28882	28390	27856	27885	12581
35°	22252	24602	25834	30128	32058	13870
45°	16385	20615	28177	34116	34828	12634
55°	10909	18058	26240	23007	20451	9791
65°	6259	12511	12013	6679	5746	6193
75°	2521	5853	3860	2642	2506	2749
85°	534	2086	1965	1923	1944	595
90°	7	755	1296	1481	1517	37
95°	14	442	1032	1210	1246	11
105°	28	249	669	805	819	30
115°	43	142	413	506	520	44
125°	50	71	242	313	320	42
135°	43	43	114	192	199	33
145°	57	43	50	93	107	33
155°	57	57	43	43	43	18
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°	33004.7	33004.7	33004.7	33004.7	33004.7
2.5°	32862.3	33004.7	33011.9	33211.2	33189.9
5°	32698.6	32947.8	33125.8	33417.7	33382.1
7.5°	32428.0	32819.6	33132.9	33453.4	33424.9
10°	32043.4	32577.5	32990.5	33254.0	33168.5
12.5°	31545.0	32249.9	32655.8	32712.8	32549.0
15°	30939.7	31808.5	32114.6	31872.5	31616.2
17.5°	30256.1	31274.4	31381.2	30854.3	30533.8
20°	29401.6	30562.3	30455.5	29729.2	29373.2
22.5°	28454.6	29779.0	29437.2	28675.3	28333.5
25°	27414.9	28881.8	28390.5	27856.4	27884.9
27.5°	26197.3	27863.6	27386.5	27628.6	28084.3
30°	24958.3	26795.4	26503.5	27913.4	28810.6
32.5°	23598.2	25698.8	25962.3	28746.5	30213.4
35°	22252.4	24602.2	25834.1	30128.0	32057.7
37.5°	20764.1	23491.4	26040.6	31723.0	33745.3
40°	19318.6	22409.0	26510.6	33154.3	34863.3
42.5°	17844.6	21440.6	27301.0	34001.7	35333.2
45°	16384.9	20614.6	28176.9	34115.6	34827.7
47.5°	14925.1	19916.8	28782.1	33211.2	32883.7
50°	13515.2	19297.3	28824.9	31039.4	29700.7
52.5°	12197.9	18727.6	28041.6	27578.7	25499.5
55°	10909.0	18058.3	26240.0	23007.2	20450.8
57.5°	9734.1	17132.6	23462.9	18093.9	15302.5
60°	8488.0	15879.3	19874.1	13237.5	11037.2
62.5°	7341.5	14319.9	15850.8	9214.3	7932.5
65°	6259.2	12511.2	12012.7	6679.3	5746.5
67.5°	5112.7	10638.4	8865.4	4870.6	4272.5
70°	4215.5	8901.0	6600.9	3788.2	3439.3
72.5°	3296.9	7248.9	4934.7	3076.2	2883.9
75°	2520.8	5853.3	3859.5	2641.8	2506.5
77.5°	1858.5	4628.5	3104.7	2335.6	2207.4
80°	1303.1	3645.8	2599.1	2086.4	2036.5
82.5°	875.9	2819.8	2214.6	1986.7	1993.8
85°	534.1	2086.4	1965.3	1922.6	1944.0
87.5°	256.3	1481.1	1687.6	1751.7	1773.1
90°	7.1	754.8	1296.0	1481.1	1516.7
92.5°	0.0	576.8	1139.3	1324.5	1360.1
95°	14.2	441.5	1032.5	1210.5	1246.1
97.5°	14.2	363.2	925.7	1110.8	1132.2
100°	21.4	313.3	826.0	1004.0	1025.4
102.5°	21.4	277.7	740.6	897.2	911.5
105°	28.5	249.2	669.4	804.6	818.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.7	170.9	470.0	569.7	583.9
115°	42.7	142.4	413.0	505.6	519.8
117.5°	49.8	128.2	363.2	448.6	455.7
120°	49.8	106.8	313.3	398.8	405.9
122.5°	49.8	85.4	277.7	356.0	363.2
125°	49.8	71.2	242.1	313.3	320.4
127.5°	42.7	49.8	206.5	277.7	284.8
130°	42.7	42.7	170.9	242.1	256.3
132.5°	42.7	42.7	142.4	213.6	227.9
135°	42.7	42.7	113.9	192.3	199.4
137.5°	42.7	42.7	92.6	163.8	178.0
140°	42.7	42.7	71.2	142.4	149.5
142.5°	49.8	42.7	64.1	121.1	128.2
145°	57.0	42.7	49.8	92.6	106.8
147.5°	57.0	49.8	49.8	78.3	85.4
150°	57.0	57.0	42.7	57.0	71.2
152.5°	57.0	57.0	42.7	42.7	57.0
155°	57.0	57.0	42.7	42.7	42.7
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°	35.6	220.7	598.1	719.2	733.4
110°	35.6	192.3	526.9	640.9	655.1



(END OF REPORT)