

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: P829789

Luminaire Tested: **OHBL-12SE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-NL-UNV-L940-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

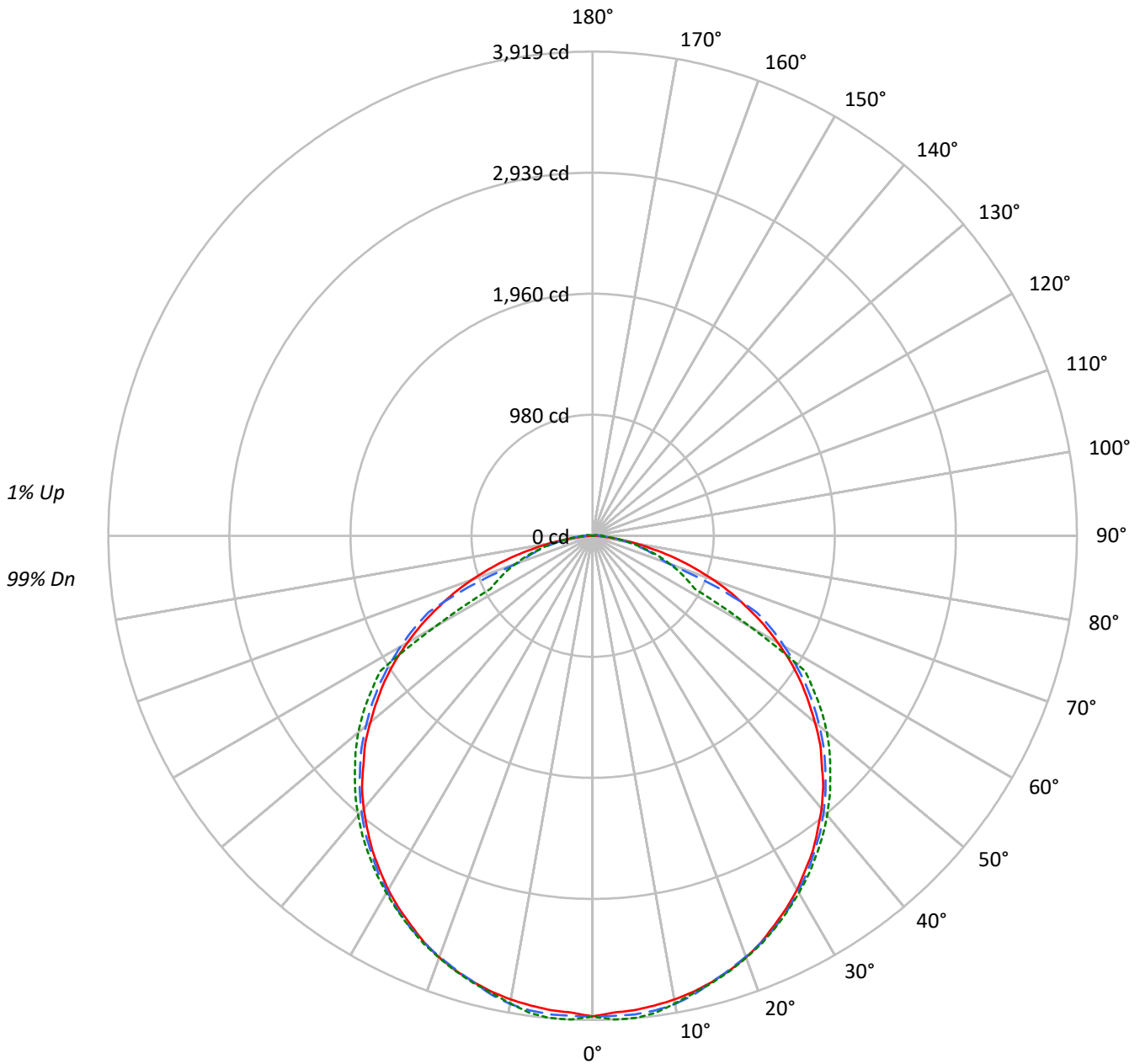
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10923.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12657	12657	12657
5°	12587	12701	12797
10°	12591	12710	12694
15°	12589	12586	12614
20°	12571	12552	12583
25°	12485	12549	12559
30°	12428	12491	12540
35°	12347	12415	12531
40°	12240	12356	12539
45°	12064	12246	12513
50°	11882	12124	12525
55°	11655	11957	12387
60°	11264	11664	9643
65°	10657	11277	6490
70°	9857	5987	6299
75°	8598	5689	6015
80°	6612	5218	5512
85°	3337	5274	5401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	3.4
10°-20°	1058.3	9.7
20°-30°	1610.3	14.7
30°-40°	1957.9	17.9
40°-50°	2058.6	18.8
50°-60°	1879.8	17.2
60°-70°	1205.0	11.0
70°-80°	569.2	5.2
80°-90°	157.8	1.4
90°-100°	41.8	0.4
100°-110°	11.4	0.1
110°-120°	3.2	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3038.2	27.8
0°-40°	4996.1	45.7
0°-60°	8934.5	81.8
0°-90°	10866.6	99.5
90°-120°	56.4	0.5
90°-150°	56.4	0.5
90°-180°	56.0	0.5
0°-180°	10923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3890	3890	3890	3890	3890	
5°	3854	3869	3889	3910	3918	367
15°	3738	3766	3737	3742	3745	1055
25°	3478	3484	3496	3501	3499	1605
35°	3109	3090	3126	3164	3155	1943
45°	2622	2617	2662	2724	2720	2027
55°	2055	2039	2108	2178	2184	1833
65°	1384	1384	1465	840	843	1373
75°	684	697	453	476	478	721
85°	89	113	141	153	145	132
90°	0	38	63	74	73	4
95°	2	20	45	61	61	1
105°	3	8	11	11	10	3
115°	3	5	7	5	1	2
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-12SE-NL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3890.5	3890.5	3890.5	3890.5	3890.5
2.5°	3863.2	3876.2	3890.5	3908.9	3919.1
5°	3854.3	3869.3	3889.1	3910.3	3918.5
7.5°	3835.2	3856.3	3875.5	3890.5	3895.3
10°	3811.3	3836.6	3847.5	3846.1	3842.7
12.5°	3779.2	3805.9	3802.5	3786.7	3789.5
15°	3737.6	3765.5	3736.9	3742.3	3745.1
17.5°	3688.4	3715.7	3682.3	3693.2	3693.9
20°	3631.1	3651.6	3625.6	3634.5	3634.5
22.5°	3562.1	3576.5	3565.5	3571.7	3573.1
25°	3478.2	3483.6	3495.9	3501.4	3498.6
27.5°	3397.6	3390.8	3414.7	3427.6	3420.8
30°	3308.2	3297.3	3325.2	3346.4	3338.2
32.5°	3205.8	3199.0	3231.1	3256.3	3251.5
35°	3108.8	3090.4	3125.9	3164.1	3155.2
37.5°	2994.1	2983.2	3023.5	3063.8	3059.0
40°	2882.2	2863.8	2909.5	2957.3	2952.5
42.5°	2762.1	2740.2	2790.0	2847.4	2841.9
45°	2622.1	2617.3	2661.7	2724.5	2719.7
47.5°	2497.9	2474.0	2536.1	2596.8	2602.3
50°	2347.6	2338.8	2395.5	2469.2	2474.6
52.5°	2200.9	2194.8	2254.1	2328.6	2338.1
55°	2054.8	2039.1	2108.0	2178.4	2183.9
57.5°	1898.5	1882.1	1952.4	2028.9	2040.5
60°	1731.2	1715.5	1792.6	1863.7	1482.1
62.5°	1564.0	1553.0	1633.6	1157.1	932.6
65°	1384.4	1384.4	1464.9	840.3	843.1
67.5°	1216.5	1205.6	1092.3	755.0	755.0
70°	1036.3	1040.4	629.4	661.5	662.2
72.5°	855.4	870.4	543.4	569.3	570.7
75°	684.0	697.0	452.6	476.5	478.5
77.5°	502.5	386.4	363.8	382.3	383.0
80°	352.9	243.7	278.5	296.3	294.2
82.5°	206.1	170.6	204.1	217.1	216.4
85°	89.4	113.3	141.3	152.9	144.7
87.5°	28.6	70.3	88.0	94.9	94.2
90°	0.0	38.2	62.8	74.4	73.1
92.5°	0.0	30.0	54.6	68.3	69.0
95°	2.0	19.8	45.1	60.8	60.8
97.5°	1.4	14.3	32.1	47.8	49.1
100°	1.4	11.6	21.2	34.1	34.8
102.5°	3.4	9.5	12.9	21.8	22.5
105°	3.4	7.5	10.9	10.9	10.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.1	5.5	7.5	5.5	0.7
115°	3.4	4.8	6.8	4.8	0.7
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	3.4	6.8	9.5	6.1	2.0
110°	4.1	6.1	8.2	5.5	0.7



(END OF REPORT)