

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: P830881

Luminaire Tested: **OHBL-90SE-W-UNV-L940-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830881
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-90SE-W-UNV-L940-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

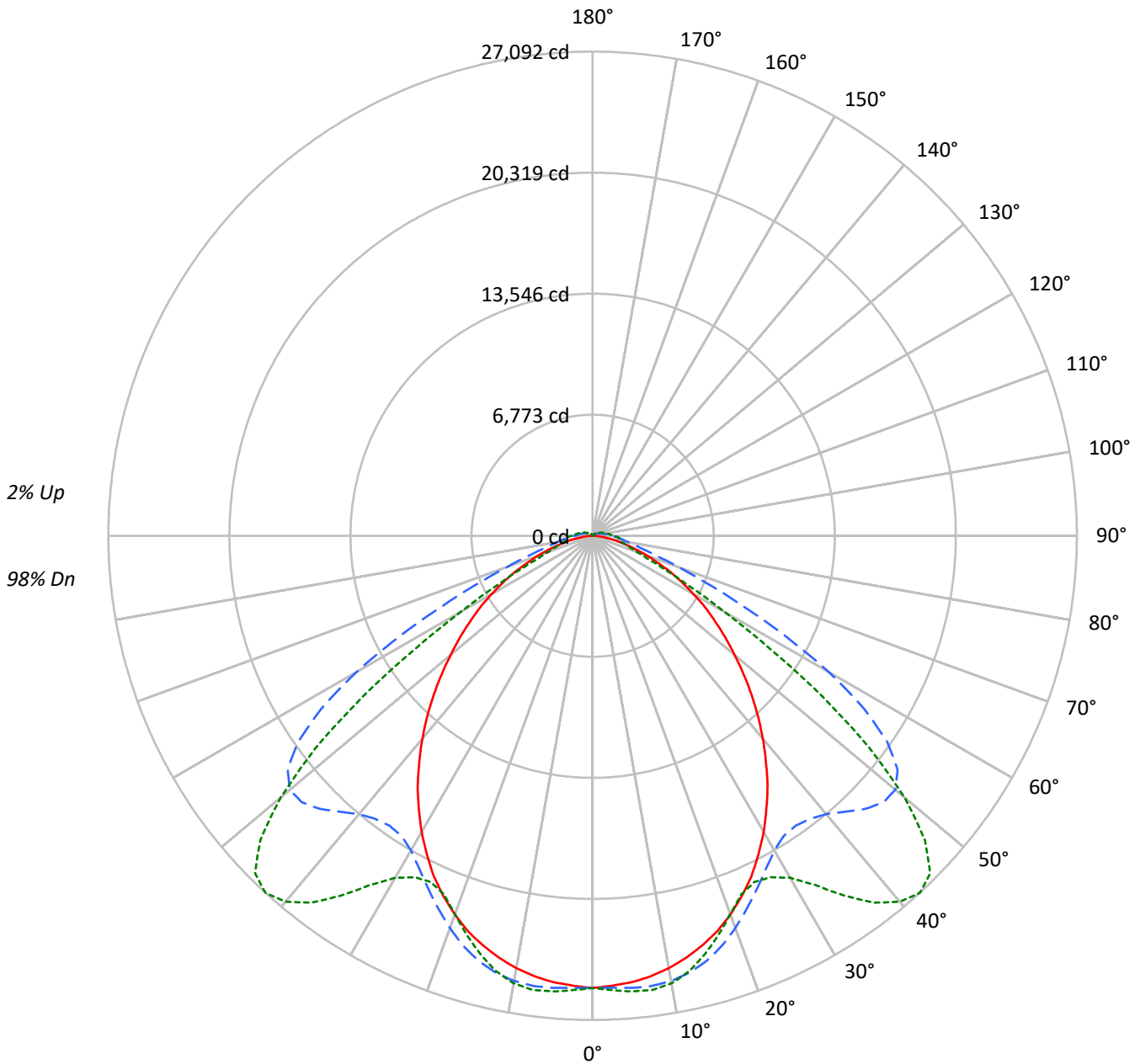
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75772.0 lumens
Efficiency: N/A
Efficacy: 143.2 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): 529
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

TEST NUMBER: P830881
CATALOG NUMBER: OHBL-90SE-W-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830881

CATALOG NUMBER: OHBL-90SE-W-UNV-L940-CD

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°	40022	40022	40022
5°	39649	39984	40307
10°	39151	39941	40184
15°	38388	39298	38729
20°	37341	37965	36668
25°	35941	36347	35764
30°	34079	35148	38293
35°	31954	35818	44565
40°	29489	38816	51207
45°	26912	44061	54663
50°	24223	48760	50460
55°	21697	48745	38185
60°	19125	41286	23067
65°	16408	28550	13756
70°	13331	18492	9720
75°	10141	13288	8727
80°	7280	11723	9324
85°	4941	12991	13138



TEST NUMBER: P830881

CATALOG NUMBER: OHBL-90SE-W-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2418.3	3.2
10°-20°	6847.9	9.0
20°-30°	10020.8	13.2
30°-40°	13014.1	17.2
40°-50°	15891.9	21.0
50°-60°	13995.3	18.5
60°-70°	7293.0	9.6
70°-80°	3127.5	4.1
80°-90°	1502.0	2.0
90°-100°	705.6	0.9
100°-110°	438.6	0.6
110°-120°	259.3	0.3
120°-130°	140.9	0.2
130°-140°	70.8	0.1
140°-150°	34.0	0.0
150°-160°	11.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	19287.1	25.5
0°-40°	32301.2	42.6
0°-60°	62188.3	82.1
0°-90°	74110.8	97.8
90°-120°	1403.6	1.9
90°-150°	1649.3	2.2
90°-180°	1661.0	2.2
0°-180°	75772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25306	25306	25306	25306	25306	
5°	25072	25263	25399	25623	25596	###
15°	23723	24389	24624	24438	24242	6680
25°	21020	22145	21768	21359	21381	9647
35°	17062	18864	19808	23101	24580	10634
45°	12563	15806	21605	26158	26704	9687
55°	8364	13846	20120	17641	15681	7507
65°	4799	9593	9211	5121	4406	4748
75°	1933	4488	2959	2026	1922	2108
85°	410	1600	1507	1474	1490	457
90°	6	579	994	1136	1163	28
95°	11	338	792	928	956	8
105°	22	191	513	617	628	23
115°	33	109	317	388	399	34
125°	38	55	186	240	246	33
135°	33	33	87	147	153	25
145°	44	33	38	71	82	26
155°	44	44	33	33	33	13
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830881

CATALOG NUMBER: OHBL-90SE-W-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25306.5	25306.5	25306.5	25306.5	25306.5
2.5°	25197.3	25306.5	25311.9	25464.8	25448.4
5°	25071.7	25262.8	25399.3	25623.1	25595.8
7.5°	24864.2	25164.5	25404.7	25650.4	25628.6
10°	24569.4	24978.9	25295.5	25497.6	25432.0
12.5°	24187.2	24727.7	25038.9	25082.6	24957.0
15°	23723.1	24389.2	24624.0	24438.3	24241.8
17.5°	23199.0	23979.7	24061.6	23657.6	23411.9
20°	22543.8	23433.7	23351.8	22794.9	22521.9
22.5°	21817.6	22833.1	22571.1	21986.9	21724.8
25°	21020.5	22145.2	21768.5	21359.0	21380.8
27.5°	20086.8	21364.4	20998.6	21184.3	21533.7
30°	19136.8	20545.5	20321.6	21402.7	22090.6
32.5°	18094.0	19704.6	19906.7	22041.5	23166.2
35°	17062.1	18863.8	19808.4	23100.7	24580.3
37.5°	15921.0	18012.1	19966.7	24323.7	25874.3
40°	14812.6	17182.2	20327.1	25421.1	26731.5
42.5°	13682.4	16439.6	20933.1	26070.8	27091.8
45°	12563.1	15806.3	21604.7	26158.2	26704.2
47.5°	11443.9	15271.2	22068.8	25464.8	25213.6
50°	10362.8	14796.2	22101.5	23799.5	22773.1
52.5°	9352.7	14359.4	21500.9	21146.0	19551.8
55°	8364.5	13846.2	20119.6	17640.8	15680.7
57.5°	7463.6	13136.4	17990.2	13873.5	11733.2
60°	6508.2	12175.5	15238.5	10149.9	8462.8
62.5°	5629.1	10979.8	12153.7	7065.1	6082.3
65°	4799.2	9593.0	9210.8	5121.4	4406.1
67.5°	3920.2	8157.0	6797.5	3734.5	3275.9
70°	3232.2	6824.8	5061.3	2904.6	2637.1
72.5°	2527.9	5558.1	3783.7	2358.7	2211.2
75°	1932.8	4488.0	2959.2	2025.6	1921.9
77.5°	1425.0	3548.9	2380.5	1790.8	1692.6
80°	999.2	2795.4	1992.8	1599.7	1561.5
82.5°	671.6	2162.1	1698.0	1523.3	1528.8
85°	409.5	1599.7	1506.9	1474.2	1490.5
87.5°	196.6	1135.7	1294.0	1343.1	1359.5
90°	5.5	578.7	993.7	1135.7	1163.0
92.5°	0.0	442.2	873.6	1015.5	1042.8
95°	10.9	338.5	791.7	928.2	955.5
97.5°	10.9	278.5	709.8	851.7	868.1
100°	16.4	240.2	633.3	769.8	786.2
102.5°	16.4	212.9	567.8	687.9	698.9
105°	21.8	191.1	513.2	617.0	627.9



TEST NUMBER: P830881

CATALOG NUMBER: OHBL-90SE-W-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.8	131.0	360.4	436.8	447.7
115°	32.8	109.2	316.7	387.7	398.6
117.5°	38.2	98.3	278.5	344.0	349.4
120°	38.2	81.9	240.2	305.8	311.2
122.5°	38.2	65.5	212.9	273.0	278.5
125°	38.2	54.6	185.6	240.2	245.7
127.5°	32.8	38.2	158.3	212.9	218.4
130°	32.8	32.8	131.0	185.6	196.6
132.5°	32.8	32.8	109.2	163.8	174.7
135°	32.8	32.8	87.4	147.4	152.9
137.5°	32.8	32.8	71.0	125.6	136.5
140°	32.8	32.8	54.6	109.2	114.7
142.5°	38.2	32.8	49.1	92.8	98.3
145°	43.7	32.8	38.2	71.0	81.9
147.5°	43.7	38.2	38.2	60.1	65.5
150°	43.7	43.7	32.8	43.7	54.6
152.5°	43.7	43.7	32.8	32.8	43.7
155°	43.7	43.7	32.8	32.8	32.8
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°	27.3	169.3	458.6	551.4	562.4
110°	27.3	147.4	404.0	491.4	502.3



(END OF REPORT)