

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: P830845

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-MFL-UNV-L940-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

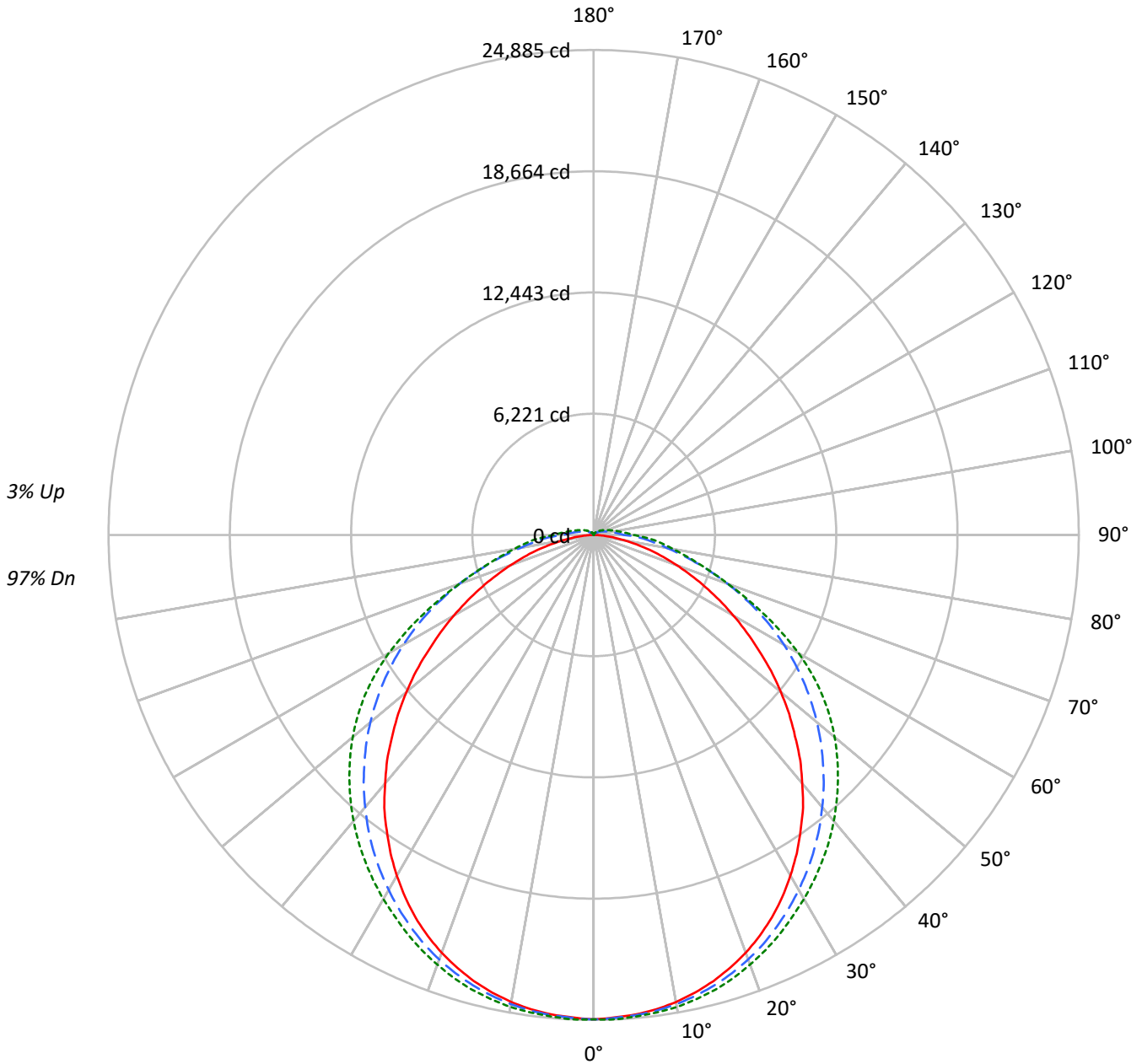
Lumens per Lamp: N/A
Luminaire Lumens: 74405.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830845

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

Luminous Intensity Polar Plot





TEST NUMBER: P830845

CATALOG NUMBER: OHBL-90SE-MFL-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39317	39317	39317
5°	39066	38945	39064
10°	38792	38601	38859
15°	38358	38191	38591
20°	37783	37688	38198
25°	37015	37061	37800
30°	35951	36381	37400
35°	34664	35658	37055
40°	33117	34822	36715
45°	31294	33913	36281
50°	29299	32995	35754
55°	26846	31871	34863
60°	24334	30547	33086
65°	21592	28855	30165
70°	18620	26699	27003
75°	15612	24207	24866
80°	11836	22406	24669
85°	7488	23289	27567



TEST NUMBER: P830845

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2355.7	3.2
10°-20°	6758.2	9.1
20°-30°	10220.6	13.7
30°-40°	12270.0	16.5
40°-50°	12672.9	17.0
50°-60°	11401.6	15.3
60°-70°	8588.7	11.5
70°-80°	5186.1	7.0
80°-90°	2536.4	3.4
90°-100°	1067.6	1.4
100°-110°	609.5	0.8
110°-120°	357.7	0.5
120°-130°	202.3	0.3
130°-140°	106.5	0.1
140°-150°	51.8	0.1
150°-160°	19.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	19334.6	26.0
0°-40°	31604.5	42.5
0°-60°	55679.0	74.8
0°-90°	71990.2	96.8
90°-120°	2034.8	2.7
90°-150°	2395.5	3.2
90°-180°	2415.0	3.2
0°-180°	74405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24861	24861	24861	24861	24861	
5°	24703	24770	24739	24837	24806	###
15°	23705	23821	23930	24131	24155	6683
25°	21648	21886	22196	22543	22598	9958
35°	18509	18941	19720	20316	20438	11571
45°	14609	15345	16629	17535	17724	11278
55°	10350	11420	13155	14146	14317	9279
65°	6316	7606	9309	9772	9662	6275
75°	2975	4271	5391	5531	5476	3174
85°	621	1637	2702	3073	3127	717
90°	0	639	1546	1947	2026	39
95°	30	432	1156	1472	1527	26
105°	43	250	669	876	913	43
115°	49	140	414	554	578	50
125°	49	67	250	359	377	44
135°	43	55	128	219	243	34
145°	61	55	61	110	128	36
155°	61	67	61	55	61	19
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830845

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24861.1	24861.1	24861.1	24861.1	24861.1
2.5°	24788.1	24848.9	24812.4	24891.5	24885.4
5°	24702.9	24769.8	24739.4	24836.7	24806.3
7.5°	24556.9	24629.9	24623.8	24733.3	24721.1
10°	24343.9	24423.0	24447.3	24593.4	24593.4
12.5°	24051.8	24155.3	24216.1	24392.6	24398.7
15°	23705.0	23820.6	23930.2	24130.9	24155.3
17.5°	23285.2	23431.2	23583.3	23814.6	23845.0
20°	22810.6	22974.9	23181.8	23425.1	23461.7
22.5°	22263.0	22457.7	22725.4	23011.4	23054.0
25°	21648.5	21885.8	22196.1	22542.9	22597.7
27.5°	20948.8	21222.6	21642.4	22031.8	22080.5
30°	20188.2	20510.7	21034.0	21496.4	21575.5
32.5°	19385.1	19756.2	20401.2	20918.4	21027.9
35°	18508.9	18940.9	19719.7	20316.0	20437.7
37.5°	17644.9	18119.5	19001.7	19683.2	19829.2
40°	16634.9	17225.1	18235.1	18989.6	19166.0
42.5°	15685.7	16324.6	17468.5	18289.9	18460.2
45°	14608.8	15345.0	16628.8	17535.4	17724.0
47.5°	13598.8	14395.8	15819.6	16756.6	16951.3
50°	12534.0	13410.1	14955.6	15935.2	16136.0
52.5°	11469.2	12412.3	14061.2	15077.3	15265.9
55°	10349.7	11420.5	13154.6	14146.4	14316.7
57.5°	9309.2	10440.9	12223.7	13166.8	13270.2
60°	8280.9	9455.2	11274.5	12102.0	12138.5
62.5°	7277.0	8512.2	10301.0	10958.1	10909.4
65°	6315.7	7605.6	9309.2	9771.6	9662.1
67.5°	5390.8	6723.3	8293.1	8591.2	8445.2
70°	4514.7	5865.4	7307.4	7459.5	7325.7
72.5°	3741.9	5050.1	6309.6	6437.4	6340.0
75°	2975.3	4271.3	5390.8	5530.8	5476.0
77.5°	2257.3	3516.8	4545.1	4727.6	4739.8
80°	1624.5	2829.3	3808.9	4094.8	4131.3
82.5°	1070.9	2196.5	3194.3	3559.4	3614.2
85°	620.6	1636.7	2701.5	3072.6	3127.4
87.5°	267.7	1180.4	2172.1	2506.8	2573.7
90°	0.0	638.9	1545.5	1947.0	2026.1
92.5°	18.3	529.3	1326.4	1691.5	1758.4
95°	30.4	432.0	1156.0	1472.4	1527.2
97.5°	36.5	365.1	1003.9	1283.8	1338.6
100°	36.5	316.4	870.1	1125.6	1174.3
102.5°	36.5	279.9	760.6	985.7	1028.3
105°	42.6	249.5	669.3	876.2	912.7



TEST NUMBER: P830845

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.7	164.3	462.4	620.6	645.0
115°	48.7	139.9	413.7	553.7	578.0
117.5°	54.8	121.7	365.1	498.9	517.2
120°	54.8	103.4	322.5	444.2	468.5
122.5°	54.8	85.2	286.0	401.6	419.8
125°	48.7	66.9	249.5	359.0	377.2
127.5°	42.6	54.8	213.0	322.5	340.7
130°	42.6	48.7	182.5	286.0	304.2
132.5°	42.6	54.8	152.1	249.5	273.8
135°	42.6	54.8	127.8	219.0	243.4
137.5°	42.6	54.8	103.4	188.6	213.0
140°	48.7	54.8	85.2	158.2	182.5
142.5°	54.8	54.8	66.9	133.9	152.1
145°	60.8	54.8	60.8	109.5	127.8
147.5°	60.8	60.8	60.8	85.2	103.4
150°	60.8	66.9	60.8	66.9	85.2
152.5°	60.8	66.9	60.8	54.8	66.9
155°	60.8	66.9	60.8	54.8	60.8
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°	42.6	219.0	590.2	778.8	809.2
110°	42.6	194.7	523.3	693.6	724.0



(END OF REPORT)