

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: P829693

Luminaire Tested: **OHBL-100SE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829693
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-100SE-MFL-UNV-L940-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

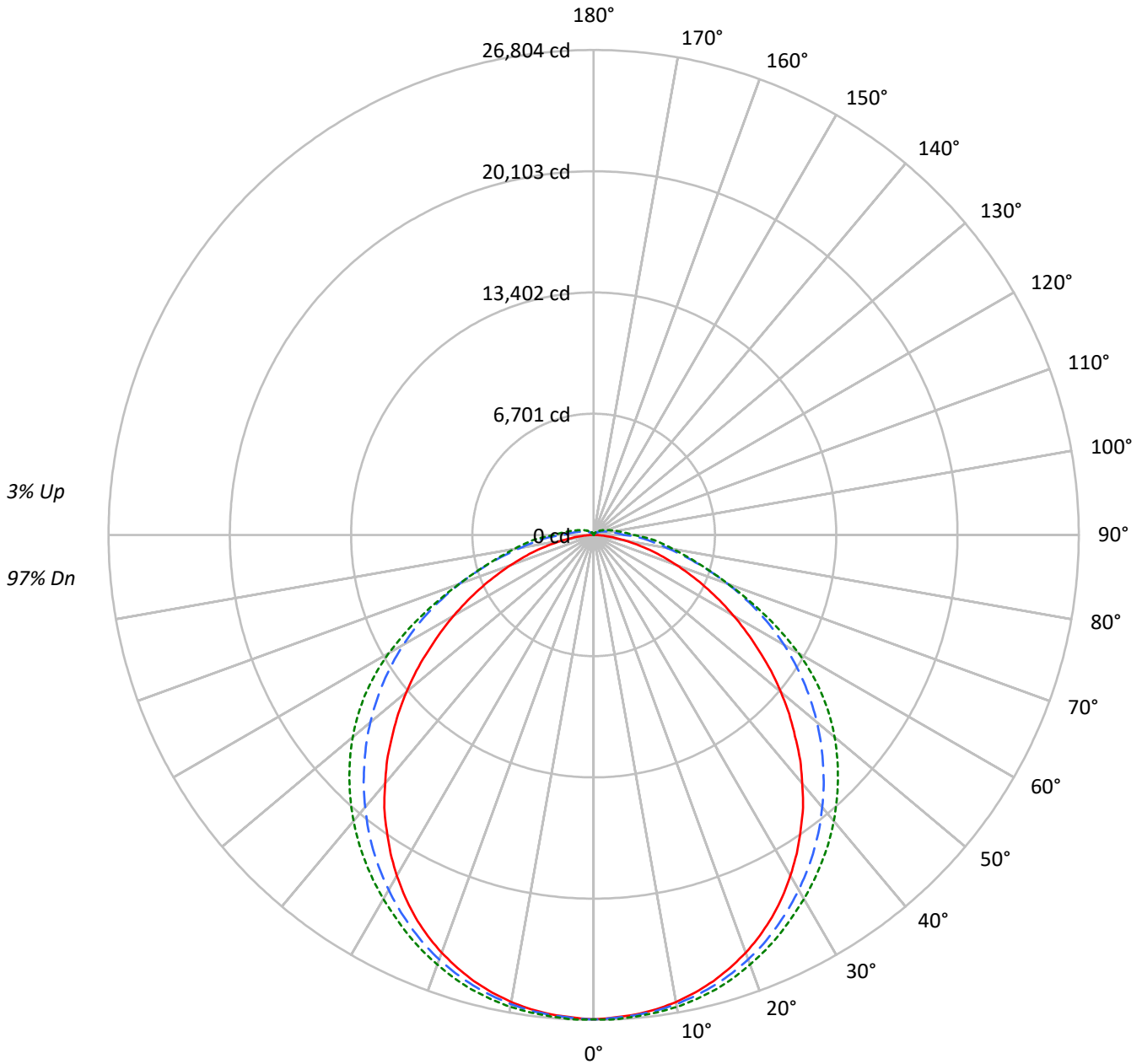
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80141.0 lumens
Efficiency: N/A
Efficacy: 135.8 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): 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

TEST NUMBER: P829693
CATALOG NUMBER: OHBL-100SE-MFL-UNV-L940-CD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42348	42348	42348
5°	42077	41947	42075
10°	41782	41577	41855
15°	41315	41135	41566
20°	40696	40594	41142
25°	39868	39918	40714
30°	38723	39185	40283
35°	37336	38407	39911
40°	35670	37506	39545
45°	33706	36528	39078
50°	31557	35539	38510
55°	28916	34327	37551
60°	26210	32902	35637
65°	23257	31079	32491
70°	20056	28757	29084
75°	16815	26073	26783
80°	12749	24133	26570
85°	8066	25085	29692



TEST NUMBER: P829693

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2537.3	3.2
10°-20°	7279.2	9.1
20°-30°	11008.6	13.7
30°-40°	13215.9	16.5
40°-50°	13649.9	17.0
50°-60°	12280.6	15.3
60°-70°	9250.8	11.5
70°-80°	5585.9	7.0
80°-90°	2732.0	3.4
90°-100°	1150.0	1.4
100°-110°	656.4	0.8
110°-120°	385.3	0.5
120°-130°	217.9	0.3
130°-140°	114.7	0.1
140°-150°	55.8	0.1
150°-160°	20.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	20825.1	26.0
0°-40°	34041.0	42.5
0°-60°	59971.4	74.8
0°-90°	77540.1	96.8
90°-120°	2191.7	2.7
90°-150°	2580.2	3.2
90°-180°	2601.0	3.2
0°-180°	80141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26778	26778	26778	26778	26778	
5°	26607	26679	26647	26751	26719	###
15°	25532	25657	25775	25991	26018	7198
25°	23317	23573	23907	24281	24340	10725
35°	19936	20401	21240	21882	22013	12463
45°	15735	16528	17911	18887	19090	12148
55°	11148	12301	14169	15237	15420	9995
65°	6802	8192	10027	10525	10407	6758
75°	3205	4601	5806	5957	5898	3419
85°	668	1763	2910	3310	3368	772
90°	0	688	1665	2097	2182	42
95°	33	465	1245	1586	1645	28
105°	46	269	721	944	983	46
115°	52	151	446	596	623	54
125°	52	72	269	387	406	47
135°	46	59	138	236	262	36
145°	66	59	66	118	138	39
155°	66	72	66	59	66	20
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829693

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26777.7	26777.7	26777.7	26777.7	26777.7
2.5°	26699.0	26764.6	26725.2	26810.4	26803.9
5°	26607.3	26679.4	26646.6	26751.4	26718.7
7.5°	26450.0	26528.6	26522.1	26640.0	26626.9
10°	26220.6	26305.8	26332.0	26489.3	26489.3
12.5°	25906.0	26017.5	26083.0	26273.0	26279.6
15°	25532.5	25657.0	25775.0	25991.2	26017.5
17.5°	25080.3	25237.6	25401.4	25650.5	25683.2
20°	24569.1	24746.1	24968.9	25231.0	25270.3
22.5°	23979.3	24189.0	24477.4	24785.4	24831.3
25°	23317.4	23573.0	23907.2	24280.8	24339.8
27.5°	22563.7	22858.7	23310.8	23730.3	23782.7
30°	21744.6	22091.9	22655.5	23153.6	23238.8
32.5°	20879.5	21279.3	21973.9	22531.0	22648.9
35°	19935.8	20401.1	21239.9	21882.2	22013.3
37.5°	19005.2	19516.4	20466.6	21200.6	21357.9
40°	17917.3	18553.0	19640.9	20453.5	20643.6
42.5°	16895.0	17583.1	18815.1	19699.9	19883.4
45°	15735.0	16528.0	17910.8	18887.2	19090.4
47.5°	14647.1	15505.6	17039.1	18048.4	18258.1
50°	13500.2	14443.9	16108.5	17163.7	17379.9
52.5°	12353.4	13369.2	15145.2	16239.6	16442.8
55°	11147.5	12300.9	14168.7	15236.9	15420.4
57.5°	10026.9	11245.8	13166.0	14181.8	14293.2
60°	8919.3	10184.2	12143.7	13034.9	13074.3
62.5°	7838.0	9168.4	11095.1	11802.9	11750.5
65°	6802.5	8191.9	10026.9	10524.9	10407.0
67.5°	5806.4	7241.6	8932.4	9253.6	9096.3
70°	4862.7	6317.6	7870.8	8034.6	7890.4
72.5°	4030.4	5439.4	6796.0	6933.6	6828.8
75°	3204.7	4600.6	5806.4	5957.1	5898.2
77.5°	2431.4	3787.9	4895.5	5092.1	5105.2
80°	1749.8	3047.4	4102.5	4410.5	4449.8
82.5°	1153.4	2365.8	3440.6	3833.8	3892.8
85°	668.5	1762.9	2909.8	3309.5	3368.5
87.5°	288.4	1271.4	2339.6	2700.0	2772.1
90°	0.0	688.1	1664.6	2097.1	2182.3
92.5°	19.7	570.2	1428.7	1821.9	1894.0
95°	32.8	465.3	1245.2	1586.0	1644.9
97.5°	39.3	393.2	1081.3	1382.8	1441.8
100°	39.3	340.8	937.2	1212.4	1264.8
102.5°	39.3	301.5	819.2	1061.7	1107.5
105°	45.9	268.7	720.9	943.7	983.0



TEST NUMBER: P829693

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.4	176.9	498.1	668.5	694.7
115°	52.4	150.7	445.6	596.4	622.6
117.5°	59.0	131.1	393.2	537.4	557.0
120°	59.0	111.4	347.3	478.4	504.6
122.5°	59.0	91.7	308.0	432.5	452.2
125°	52.4	72.1	268.7	386.7	406.3
127.5°	45.9	59.0	229.4	347.3	367.0
130°	45.9	52.4	196.6	308.0	327.7
132.5°	45.9	59.0	163.8	268.7	294.9
135°	45.9	59.0	137.6	235.9	262.1
137.5°	45.9	59.0	111.4	203.2	229.4
140°	52.4	59.0	91.7	170.4	196.6
142.5°	59.0	59.0	72.1	144.2	163.8
145°	65.5	59.0	65.5	118.0	137.6
147.5°	65.5	65.5	65.5	91.7	111.4
150°	65.5	72.1	65.5	72.1	91.7
152.5°	65.5	72.1	65.5	59.0	72.1
155°	65.5	72.1	65.5	59.0	65.5
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°	45.9	235.9	635.7	838.8	871.6
110°	45.9	209.7	563.6	747.1	779.9



(END OF REPORT)