

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: P829969

Luminaire Tested: **OHBL-18SE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-MCL-UNV-L940-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

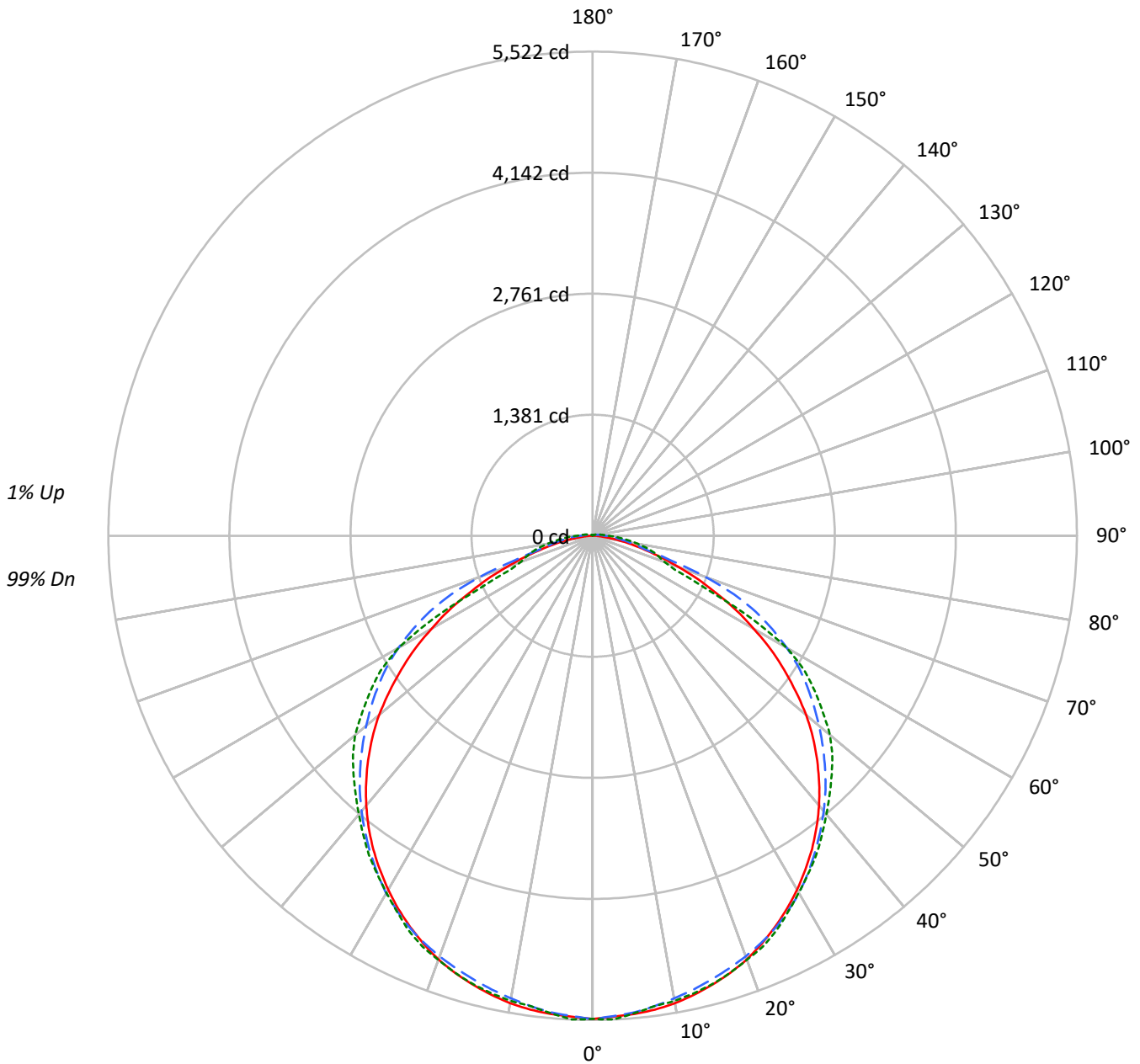
Lumens per Lamp: N/A
Luminaire Lumens: 15576.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
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: P829969

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L940-CD

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	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9412	9412	9412
5°	9351	9271	9289
10°	9317	9127	9180
15°	9258	9018	9113
20°	9198	8947	9026
25°	9087	8876	8940
30°	8967	8767	8764
35°	8822	8596	8664
40°	8635	8419	8529
45°	8375	8215	8465
50°	8022	7983	8388
55°	7462	7753	8064
60°	6729	7420	7443
65°	5773	6808	4707
70°	4649	5304	3402
75°	3486	3139	3438
80°	2427	2598	3260
85°	1381	2359	3016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.6	3.3
10°-20°	1490.0	9.6
20°-30°	2275.7	14.6
30°-40°	2761.2	17.7
40°-50°	2894.0	18.6
50°-60°	2622.4	16.8
60°-70°	1758.2	11.3
70°-80°	789.5	5.1
80°-90°	286.5	1.8
90°-100°	86.2	0.6
100°-110°	40.7	0.3
110°-120°	20.4	0.1
120°-130°	11.2	0.1
130°-140°	7.7	0.0
140°-150°	5.2	0.0
150°-160°	3.9	0.0
160°-170°	2.5	0.0
170°-180°	0.8	0.0
0°-30°	4285.4	27.5
0°-40°	7046.6	45.2
0°-60°	12563.1	80.7
0°-90°	15397.3	98.9
90°-120°	147.3	0.9
90°-150°	171.5	1.1
90°-180°	179.0	1.1
0°-180°	15576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5511	5511	5511	5511	5511	
5°	5475	5494	5456	5473	5465	521
15°	5297	5276	5239	5285	5292	1496
25°	4921	4900	4934	4979	4965	2268
35°	4362	4372	4417	4464	4446	2726
45°	3620	3679	3747	3843	3855	2789
55°	2664	2792	2982	3102	3095	2378
65°	1563	1808	2053	1732	1414	1558
75°	615	892	657	672	716	672
85°	106	203	261	315	330	129
90°	1	68	135	169	177	6
95°	1	42	92	112	116	1
105°	3	18	45	55	57	4
115°	6	10	23	30	31	6
125°	6	6	14	17	18	6
135°	7	8	9	13	14	6
145°	7	8	8	9	10	5
155°	8	9	9	9	8	4
165°	9	9	9	9	9	2
175°	9	9	8	7	7	1
180°	8	8	8	8	8	



TEST NUMBER: P829969

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5510.8	5510.8	5510.8	5510.8	5510.8
2.5°	5488.5	5511.6	5482.9	5514.0	5522.0
5°	5474.9	5494.1	5455.8	5472.6	5465.4
7.5°	5450.2	5456.6	5411.2	5424.7	5410.4
10°	5413.6	5410.4	5357.0	5383.3	5386.5
12.5°	5359.4	5349.8	5302.0	5341.9	5342.7
15°	5297.3	5276.5	5239.1	5285.3	5291.7
17.5°	5225.5	5198.4	5173.7	5233.5	5223.9
20°	5141.9	5110.0	5105.2	5170.6	5146.7
22.5°	5038.3	5013.6	5024.7	5086.9	5071.8
25°	4921.2	4899.6	4933.9	4979.3	4965.0
27.5°	4797.6	4784.9	4823.9	4859.0	4831.1
30°	4662.2	4655.0	4706.8	4735.5	4700.4
32.5°	4514.8	4517.2	4566.6	4605.6	4572.9
35°	4361.8	4372.1	4416.8	4463.8	4446.3
37.5°	4193.7	4216.8	4261.4	4314.8	4296.4
40°	4016.0	4049.4	4098.8	4163.4	4146.6
42.5°	3823.9	3866.2	3929.9	4001.6	4000.0
45°	3619.9	3678.9	3747.4	3843.1	3855.0
47.5°	3408.0	3474.1	3561.0	3688.5	3706.8
50°	3177.7	3260.6	3369.0	3521.9	3533.1
52.5°	2921.1	3034.3	3177.7	3324.3	3310.8
55°	2663.8	2792.1	2982.5	3102.0	3094.8
57.5°	2407.2	2551.4	2782.5	2867.8	2867.0
60°	2120.3	2302.8	2555.4	2619.9	2556.2
62.5°	1855.0	2051.0	2313.2	2266.2	2047.8
65°	1563.4	1808.0	2052.6	1732.3	1414.4
67.5°	1304.4	1559.4	1743.4	1186.5	1015.9
70°	1043.8	1325.1	1359.4	880.5	868.5
72.5°	812.8	1112.4	937.9	753.8	792.0
75°	615.1	892.4	656.6	671.7	715.5
77.5°	448.6	685.3	510.8	588.8	624.7
80°	308.4	485.3	416.7	494.8	519.5
82.5°	193.6	320.3	333.9	398.4	423.9
85°	106.0	203.2	260.6	314.7	329.9
87.5°	43.8	122.7	199.2	243.0	255.8
90°	0.8	67.7	134.7	168.9	176.9
92.5°	0.8	51.8	110.0	136.3	141.8
95°	0.8	42.2	92.4	112.4	115.5
97.5°	1.6	33.5	77.3	93.2	96.4
100°	2.4	27.9	64.5	78.1	80.5
102.5°	3.2	22.3	54.2	65.3	67.7
105°	3.2	18.3	45.4	55.0	57.4



TEST NUMBER: P829969

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.6	11.2	27.1	34.3	35.9
115°	6.4	9.6	23.1	29.5	31.1
117.5°	6.4	8.0	19.9	24.7	26.3
120°	6.4	7.2	17.5	21.5	22.3
122.5°	6.4	6.4	15.1	19.1	19.9
125°	5.6	6.4	14.3	16.7	17.5
127.5°	6.4	6.4	12.7	15.1	15.9
130°	6.4	7.2	11.2	14.3	14.3
132.5°	7.2	8.0	10.4	13.5	13.5
135°	7.2	8.0	8.8	12.7	13.5
137.5°	8.0	8.0	8.0	12.0	12.7
140°	8.0	8.0	7.2	10.4	11.2
142.5°	7.2	8.0	7.2	9.6	10.4
145°	7.2	8.0	8.0	8.8	9.6
147.5°	8.0	8.0	8.0	8.0	8.8
150°	8.0	8.0	8.0	8.0	8.0
152.5°	8.0	8.0	8.0	8.0	8.0
155°	8.0	8.8	8.8	8.8	8.0
157.5°	8.0	8.8	8.8	8.8	8.8
160°	8.0	8.8	8.8	8.8	8.8
162.5°	8.8	8.8	8.8	8.8	8.8
165°	8.8	8.8	8.8	8.8	8.8
167.5°	8.8	9.6	8.8	8.8	8.8
170°	8.8	8.8	8.8	8.0	8.0
172.5°	8.8	8.8	8.8	8.0	8.0
175°	8.8	8.8	8.0	7.2	7.2
177.5°	9.6	8.8	8.0	7.2	6.4
180°	8.0	8.0	8.0	8.0	8.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	4.0	15.1	39.0	47.0	48.6
110°	4.8	12.7	32.7	39.8	41.4



(END OF REPORT)