

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: P829968

Luminaire Tested: **OHBL-18SE-MCL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829968
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-L935-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

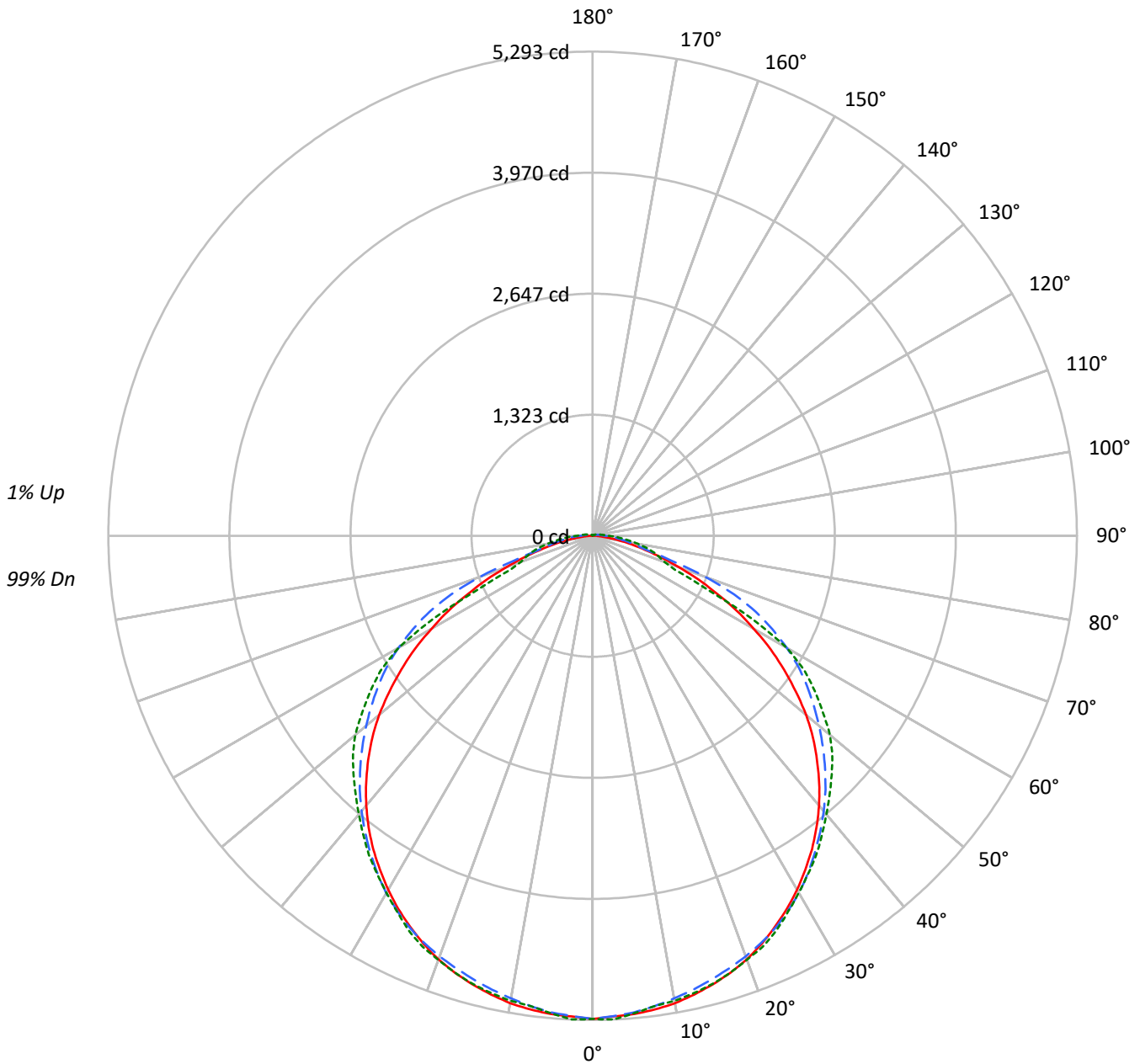
Lumens per Lamp: N/A
Luminaire Lumens: 14929.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P829968

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829968

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-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	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°	9021	9021	9021
5°	8962	8886	8903
10°	8930	8748	8799
15°	8873	8643	8734
20°	8816	8576	8651
25°	8710	8508	8568
30°	8594	8403	8400
35°	8456	8239	8304
40°	8276	8069	8175
45°	8027	7874	8113
50°	7689	7651	8040
55°	7152	7431	7729
60°	6450	7112	7133
65°	5533	6525	4511
70°	4457	5083	3261
75°	3341	3009	3296
80°	2326	2490	3125
85°	1324	2261	2891



TEST NUMBER: P829968

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	3.3
10°-20°	1428.1	9.6
20°-30°	2181.2	14.6
30°-40°	2646.5	17.7
40°-50°	2773.8	18.6
50°-60°	2513.5	16.8
60°-70°	1685.2	11.3
70°-80°	756.7	5.1
80°-90°	274.6	1.8
90°-100°	82.7	0.6
100°-110°	39.0	0.3
110°-120°	19.5	0.1
120°-130°	10.8	0.1
130°-140°	7.4	0.0
140°-150°	5.0	0.0
150°-160°	3.7	0.0
160°-170°	2.4	0.0
170°-180°	0.8	0.0
0°-30°	4107.4	27.5
0°-40°	6753.9	45.2
0°-60°	12041.2	80.7
0°-90°	14757.8	98.9
90°-120°	141.2	0.9
90°-150°	164.4	1.1
90°-180°	171.0	1.1
0°-180°	14929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5282	5282	5282	5282	5282	
5°	5248	5266	5229	5245	5238	499
15°	5077	5057	5022	5066	5072	1434
25°	4717	4696	4729	4772	4759	2174
35°	4181	4190	4233	4278	4262	2613
45°	3470	3526	3592	3683	3695	2673
55°	2553	2676	2859	2973	2966	2279
65°	1498	1733	1967	1660	1356	1493
75°	590	855	629	644	686	644
85°	102	195	250	302	316	124
90°	1	65	129	162	170	6
95°	1	40	89	108	111	1
105°	3	18	44	53	55	4
115°	6	9	22	28	30	6
125°	5	6	14	16	17	5
135°	7	8	8	12	13	5
145°	7	8	8	8	9	5
155°	8	8	8	8	8	4
165°	8	8	8	8	8	2
175°	8	8	8	7	7	1
180°	8	8	8	8	8	



TEST NUMBER: P829968

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5281.9	5281.9	5281.9	5281.9	5281.9
2.5°	5260.5	5282.7	5255.2	5284.9	5292.6
5°	5247.5	5265.9	5229.2	5245.2	5238.4
7.5°	5223.9	5230.0	5186.4	5199.4	5185.7
10°	5188.7	5185.7	5134.5	5159.7	5162.8
12.5°	5136.8	5127.6	5081.8	5120.0	5120.7
15°	5077.2	5057.4	5021.5	5065.8	5071.9
17.5°	5008.5	4982.5	4958.8	5016.1	5007.0
20°	4928.3	4897.7	4893.2	4955.8	4932.9
22.5°	4829.0	4805.3	4816.0	4875.6	4861.1
25°	4716.7	4696.1	4729.0	4772.5	4758.7
27.5°	4598.4	4586.1	4623.6	4657.2	4630.4
30°	4468.5	4461.7	4511.3	4538.8	4505.2
32.5°	4327.2	4329.5	4376.9	4414.3	4383.0
35°	4180.6	4190.5	4233.3	4278.4	4261.6
37.5°	4019.5	4041.6	4084.4	4135.5	4118.0
40°	3849.2	3881.2	3928.6	3990.4	3974.4
42.5°	3665.1	3705.6	3766.7	3835.4	3833.9
45°	3469.6	3526.1	3591.8	3683.4	3694.9
47.5°	3266.4	3329.8	3413.1	3535.3	3552.8
50°	3045.7	3125.1	3229.0	3375.6	3386.3
52.5°	2799.8	2908.2	3045.7	3186.2	3173.3
55°	2553.1	2676.1	2858.6	2973.2	2966.3
57.5°	2307.2	2445.4	2666.9	2748.6	2747.9
60°	2032.3	2207.2	2449.3	2511.1	2450.0
62.5°	1777.9	1965.8	2217.1	2172.0	1962.8
65°	1498.4	1732.9	1967.3	1660.3	1355.6
67.5°	1250.2	1494.6	1671.0	1137.2	973.7
70°	1000.5	1270.1	1302.9	843.9	832.5
72.5°	779.0	1066.2	898.9	722.5	759.1
75°	589.6	855.4	629.3	643.8	685.8
77.5°	430.0	656.8	489.5	564.4	598.8
80°	295.6	465.1	399.4	474.3	497.9
82.5°	185.6	307.0	320.0	381.9	406.3
85°	101.6	194.7	249.7	301.7	316.2
87.5°	42.0	117.6	190.9	232.9	245.2
90°	0.8	64.9	129.1	161.9	169.5
92.5°	0.8	49.6	105.4	130.6	135.9
95°	0.8	40.5	88.6	107.7	110.7
97.5°	1.5	32.1	74.1	89.4	92.4
100°	2.3	26.7	61.9	74.8	77.1
102.5°	3.1	21.4	51.9	62.6	64.9
105°	3.1	17.6	43.5	52.7	55.0



TEST NUMBER: P829968

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	10.7	26.0	32.8	34.4
115°	6.1	9.2	22.1	28.3	29.8
117.5°	6.1	7.6	19.1	23.7	25.2
120°	6.1	6.9	16.8	20.6	21.4
122.5°	6.1	6.1	14.5	18.3	19.1
125°	5.3	6.1	13.7	16.0	16.8
127.5°	6.1	6.1	12.2	14.5	15.3
130°	6.1	6.9	10.7	13.7	13.7
132.5°	6.9	7.6	9.9	13.0	13.0
135°	6.9	7.6	8.4	12.2	13.0
137.5°	7.6	7.6	7.6	11.5	12.2
140°	7.6	7.6	6.9	9.9	10.7
142.5°	6.9	7.6	6.9	9.2	9.9
145°	6.9	7.6	7.6	8.4	9.2
147.5°	7.6	7.6	7.6	7.6	8.4
150°	7.6	7.6	7.6	7.6	7.6
152.5°	7.6	7.6	7.6	7.6	7.6
155°	7.6	8.4	8.4	8.4	7.6
157.5°	7.6	8.4	8.4	8.4	8.4
160°	7.6	8.4	8.4	8.4	8.4
162.5°	8.4	8.4	8.4	8.4	8.4
165°	8.4	8.4	8.4	8.4	8.4
167.5°	8.4	9.2	8.4	8.4	8.4
170°	8.4	8.4	8.4	7.6	7.6
172.5°	8.4	8.4	8.4	7.6	7.6
175°	8.4	8.4	7.6	6.9	6.9
177.5°	9.2	8.4	7.6	6.9	6.1
180°	7.6	7.6	7.6	7.6	7.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.8	14.5	37.4	45.1	46.6
110°	4.6	12.2	31.3	38.2	39.7



(END OF REPORT)