

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: P829980

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829980
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-18SE-MFL-UNV-L935-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

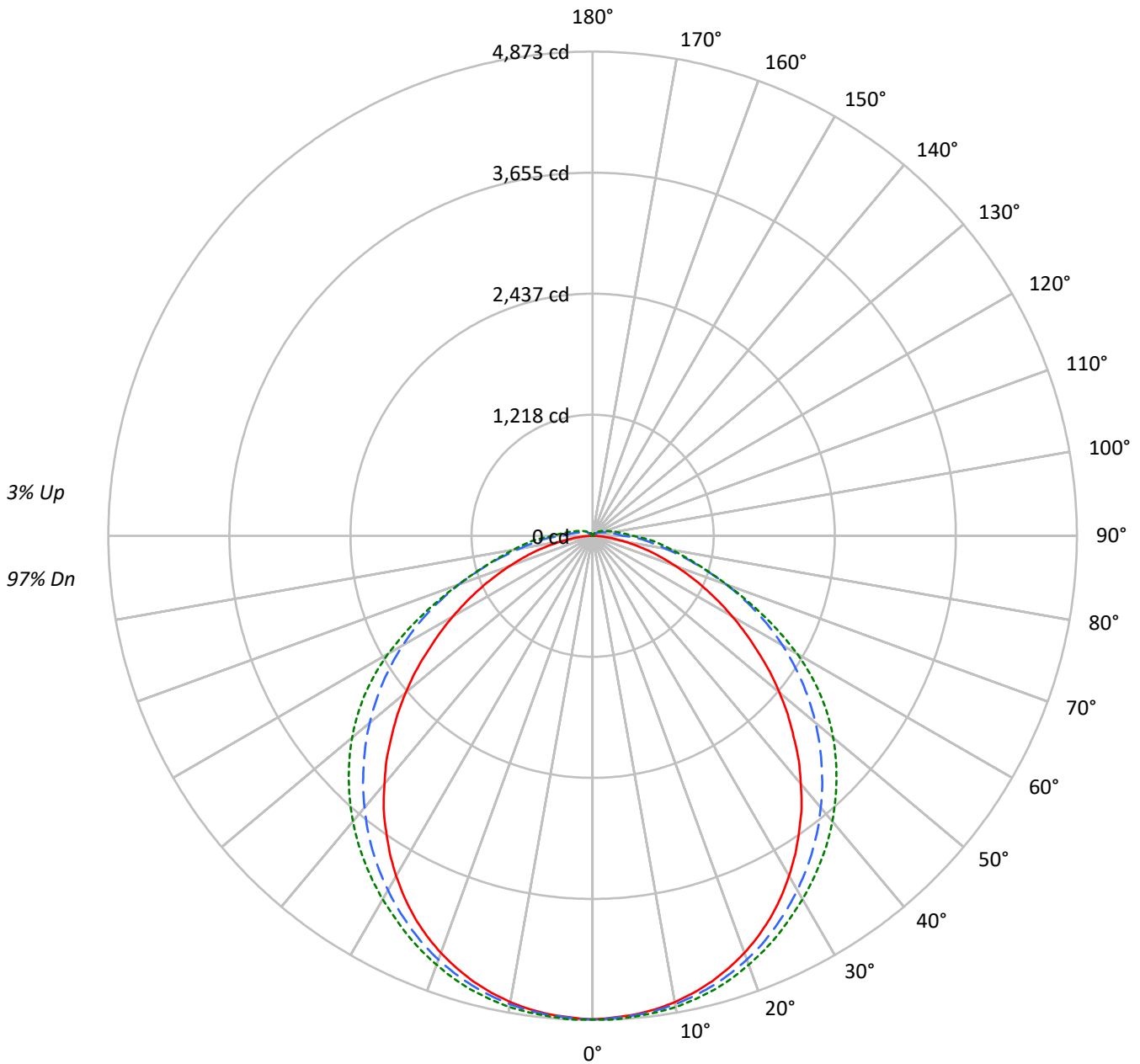
Lumens per Lamp: N/A
Luminaire Lumens: 14570.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P829980

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

Luminous Intensity Polar Plot





TEST NUMBER: P829980

CATALOG NUMBER: OHBL-18SE-MFL-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	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°	8315	8315	8315
5°	8262	8233	8256
10°	8204	8156	8208
15°	8112	8066	8146
20°	7991	7956	8057
25°	7828	7819	7968
30°	7603	7672	7878
35°	7331	7515	7798
40°	7004	7334	7720
45°	6618	7138	7621
50°	6196	6939	7502
55°	5678	6696	7305
60°	5146	6410	6921
65°	4566	6046	6296
70°	3938	5583	5619
75°	3301	5047	5153
80°	2503	4650	5077
85°	1583	4789	5600



TEST NUMBER: P829980

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.3	3.2
10°-20°	1323.4	9.1
20°-30°	2001.4	13.7
30°-40°	2402.7	16.5
40°-50°	2481.6	17.0
50°-60°	2232.7	15.3
60°-70°	1681.8	11.5
70°-80°	1015.5	7.0
80°-90°	496.7	3.4
90°-100°	209.1	1.4
100°-110°	119.3	0.8
110°-120°	70.0	0.5
120°-130°	39.6	0.3
130°-140°	20.9	0.1
140°-150°	10.1	0.1
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3786.1	26.0
0°-40°	6188.8	42.5
0°-60°	10903.1	74.8
0°-90°	14097.1	96.8
90°-120°	398.5	2.7
90°-150°	469.1	3.2
90°-180°	473.0	3.2
0°-180°	14570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4868	4868	4868	4868	4868	
5°	4837	4850	4844	4864	4858	460
15°	4642	4665	4686	4725	4730	1309
25°	4239	4286	4346	4414	4425	1950
35°	3624	3709	3862	3978	4002	2266
45°	2861	3005	3256	3434	3471	2209
55°	2027	2236	2576	2770	2804	1817
65°	1237	1489	1823	1914	1892	1229
75°	583	836	1056	1083	1072	622
85°	122	320	529	602	612	140
90°	0	125	303	381	397	8
95°	6	85	226	288	299	5
105°	8	49	131	172	179	8
115°	10	27	81	108	113	10
125°	10	13	49	70	74	9
135°	8	11	25	43	48	7
145°	12	11	12	21	25	7
155°	12	13	12	11	12	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829980

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4868.3	4868.3	4868.3	4868.3	4868.3
2.5°	4854.0	4865.9	4858.8	4874.3	4873.1
5°	4837.3	4850.4	4844.5	4863.5	4857.6
7.5°	4808.7	4823.0	4821.8	4843.3	4840.9
10°	4767.0	4782.5	4787.3	4815.9	4815.9
12.5°	4709.8	4730.1	4742.0	4776.6	4777.7
15°	4641.9	4664.6	4686.0	4725.3	4730.1
17.5°	4559.7	4588.3	4618.1	4663.4	4669.3
20°	4466.8	4498.9	4539.5	4587.1	4594.3
22.5°	4359.5	4397.7	4450.1	4506.1	4514.4
25°	4239.2	4285.7	4346.4	4414.4	4425.1
27.5°	4102.2	4155.8	4238.0	4314.3	4323.8
30°	3953.3	4016.4	4118.9	4209.4	4224.9
32.5°	3796.0	3868.7	3995.0	4096.2	4117.7
35°	3624.4	3709.0	3861.5	3978.3	4002.1
37.5°	3455.2	3548.2	3720.9	3854.4	3883.0
40°	3257.4	3373.0	3570.8	3718.5	3753.1
42.5°	3071.6	3196.7	3420.7	3581.5	3614.9
45°	2860.7	3004.9	3256.3	3433.8	3470.7
47.5°	2662.9	2819.0	3097.8	3281.3	3319.4
50°	2454.4	2626.0	2928.6	3120.4	3159.7
52.5°	2245.9	2430.6	2753.5	2952.4	2989.4
55°	2026.7	2236.4	2575.9	2770.1	2803.5
57.5°	1822.9	2044.5	2393.6	2578.3	2598.6
60°	1621.6	1851.5	2207.8	2369.8	2377.0
62.5°	1425.0	1666.9	2017.1	2145.8	2136.3
65°	1236.7	1489.3	1822.9	1913.5	1892.0
67.5°	1055.6	1316.6	1624.0	1682.3	1653.7
70°	884.1	1148.6	1430.9	1460.7	1434.5
72.5°	732.7	988.9	1235.5	1260.6	1241.5
75°	582.6	836.4	1055.6	1083.0	1072.3
77.5°	442.0	688.7	890.0	925.8	928.1
80°	318.1	554.0	745.9	801.9	809.0
82.5°	209.7	430.1	625.5	697.0	707.7
85°	121.5	320.5	529.0	601.7	612.4
87.5°	52.4	231.1	425.4	490.9	504.0
90°	0.0	125.1	302.6	381.3	396.8
92.5°	3.6	103.7	259.7	331.2	344.3
95°	6.0	84.6	226.4	288.3	299.1
97.5°	7.1	71.5	196.6	251.4	262.1
100°	7.1	62.0	170.4	220.4	230.0
102.5°	7.1	54.8	148.9	193.0	201.4
105°	8.3	48.8	131.1	171.6	178.7



TEST NUMBER: P829980

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	32.2	90.6	121.5	126.3
115°	9.5	27.4	81.0	108.4	113.2
117.5°	10.7	23.8	71.5	97.7	101.3
120°	10.7	20.3	63.1	87.0	91.7
122.5°	10.7	16.7	56.0	78.6	82.2
125°	9.5	13.1	48.8	70.3	73.9
127.5°	8.3	10.7	41.7	63.1	66.7
130°	8.3	9.5	35.7	56.0	59.6
132.5°	8.3	10.7	29.8	48.8	53.6
135°	8.3	10.7	25.0	42.9	47.7
137.5°	8.3	10.7	20.3	36.9	41.7
140°	9.5	10.7	16.7	31.0	35.7
142.5°	10.7	10.7	13.1	26.2	29.8
145°	11.9	10.7	11.9	21.4	25.0
147.5°	11.9	11.9	11.9	16.7	20.3
150°	11.9	13.1	11.9	13.1	16.7
152.5°	11.9	13.1	11.9	10.7	13.1
155°	11.9	13.1	11.9	10.7	11.9
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°	8.3	42.9	115.6	152.5	158.5
110°	8.3	38.1	102.5	135.8	141.8



(END OF REPORT)