

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: P829961

Luminaire Tested: **OHBL-18SE-MCL-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829961
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-L740-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

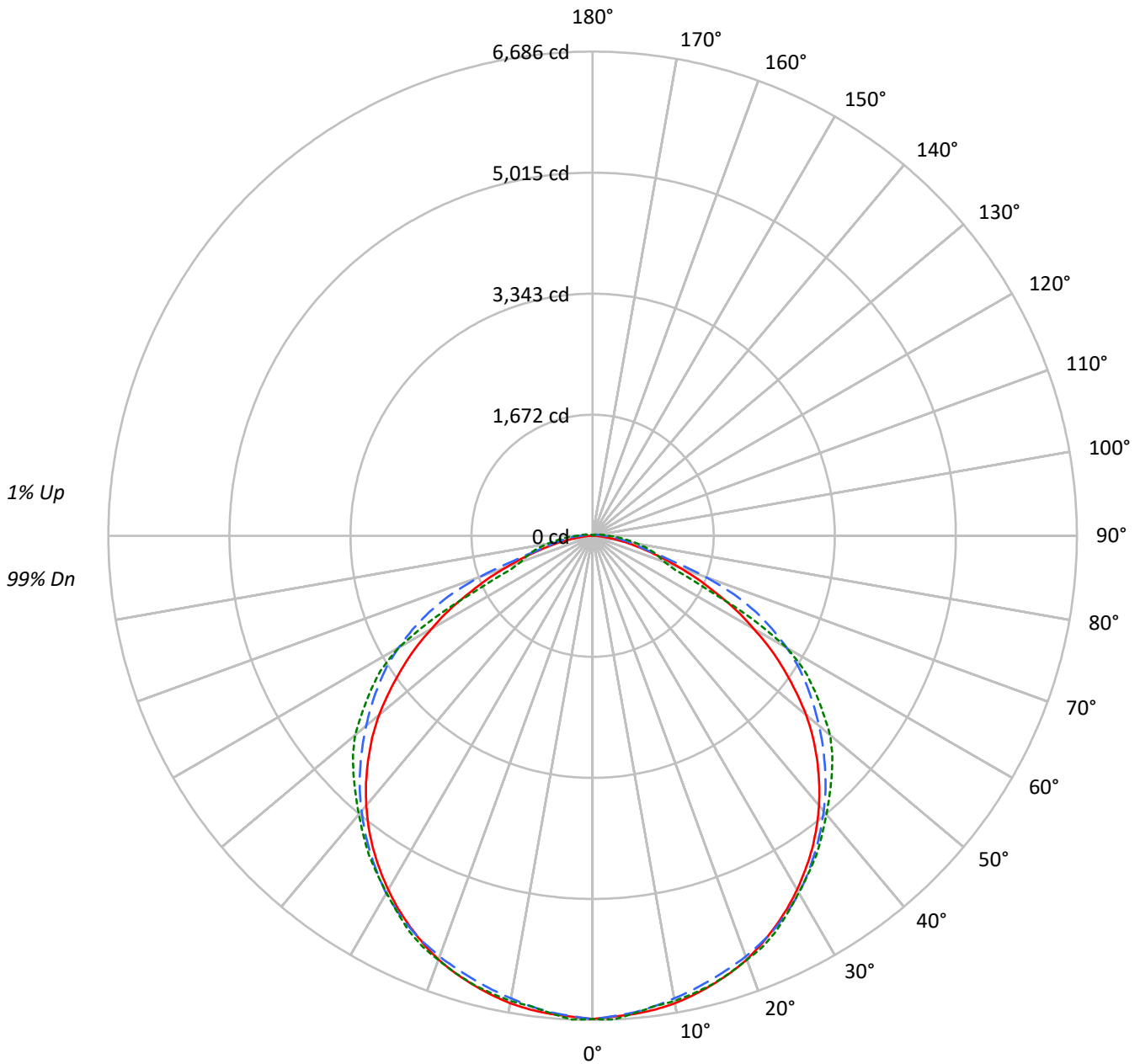
Lumens per Lamp: N/A
Luminaire Lumens: 18861.0 lumens
Efficiency: N/A
Efficacy: 179.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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°	11397	11397	11397
5°	11323	11227	11248
10°	11281	11052	11116
15°	11210	10920	11035
20°	11138	10834	10930
25°	11004	10749	10825
30°	10858	10616	10613
35°	10683	10409	10491
40°	10456	10195	10329
45°	10141	9947	10250
50°	9714	9666	10157
55°	9036	9388	9765
60°	8148	8984	9012
65°	6990	8244	5699
70°	5630	6422	4120
75°	4221	3801	4164
80°	2938	3145	3948
85°	1672	2856	3653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.2	3.3
10°-20°	1804.3	9.6
20°-30°	2755.7	14.6
30°-40°	3343.6	17.7
40°-50°	3504.4	18.6
50°-60°	3175.5	16.8
60°-70°	2129.1	11.3
70°-80°	956.1	5.1
80°-90°	346.9	1.8
90°-100°	104.4	0.6
100°-110°	49.3	0.3
110°-120°	24.7	0.1
120°-130°	13.6	0.1
130°-140°	9.4	0.0
140°-150°	6.3	0.0
150°-160°	4.7	0.0
160°-170°	3.0	0.0
170°-180°	1.0	0.0
0°-30°	5189.2	27.5
0°-40°	8532.7	45.2
0°-60°	15212.6	80.7
0°-90°	18644.7	98.9
90°-120°	178.4	0.9
90°-150°	207.7	1.1
90°-180°	216.0	1.1
0°-180°	18861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6673	6673	6673	6673	6673	
5°	6630	6653	6606	6627	6618	631
15°	6414	6389	6344	6400	6408	1811
25°	5959	5933	5974	6030	6012	2747
35°	5282	5294	5348	5405	5384	3301
45°	4383	4455	4538	4654	4668	3377
55°	3226	3381	3612	3756	3748	2879
65°	1893	2189	2486	2098	1713	1886
75°	745	1081	795	813	866	814
85°	128	246	316	381	400	157
90°	1	82	163	205	214	8
95°	1	51	112	136	140	1
105°	4	22	55	67	70	4
115°	8	12	28	36	38	7
125°	7	8	17	20	21	7
135°	9	10	11	15	16	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	4
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



TEST NUMBER: P829961

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6673.0	6673.0	6673.0	6673.0	6673.0
2.5°	6646.0	6674.0	6639.3	6676.9	6686.5
5°	6629.6	6652.8	6606.5	6626.7	6618.0
7.5°	6599.7	6607.4	6552.4	6568.8	6551.5
10°	6555.3	6551.5	6486.8	6518.7	6522.5
12.5°	6489.7	6478.1	6420.2	6468.5	6469.5
15°	6414.5	6389.4	6344.0	6400.0	6407.7
17.5°	6327.6	6294.8	6264.9	6337.3	6325.7
20°	6226.3	6187.7	6181.9	6261.0	6232.1
22.5°	6100.9	6071.0	6084.5	6159.7	6141.4
25°	5959.0	5933.0	5974.5	6029.5	6012.1
27.5°	5809.5	5794.0	5841.3	5883.8	5850.0
30°	5645.5	5636.8	5699.5	5734.2	5691.8
32.5°	5467.0	5469.8	5529.7	5576.9	5537.4
35°	5281.7	5294.2	5348.3	5405.2	5384.0
37.5°	5078.1	5106.1	5160.1	5224.8	5202.6
40°	4862.9	4903.5	4963.3	5041.4	5021.2
42.5°	4630.4	4681.5	4758.7	4845.6	4843.6
45°	4383.4	4454.8	4537.8	4653.6	4668.0
47.5°	4126.7	4206.8	4312.0	4466.4	4488.6
50°	3847.9	3948.2	4079.5	4264.7	4278.2
52.5°	3537.2	3674.2	3847.9	4025.4	4009.0
55°	3225.6	3380.9	3611.5	3756.2	3747.6
57.5°	2914.9	3089.5	3369.3	3472.6	3471.6
60°	2567.5	2788.5	3094.3	3172.5	3095.3
62.5°	2246.2	2483.6	2801.0	2744.1	2479.7
65°	1893.1	2189.3	2485.5	2097.6	1712.6
67.5°	1579.5	1888.2	2111.1	1436.7	1230.2
70°	1264.0	1604.6	1646.1	1066.2	1051.7
72.5°	984.2	1347.0	1135.7	912.8	959.1
75°	744.9	1080.7	795.1	813.4	866.5
77.5°	543.2	829.8	618.5	713.0	756.5
80°	373.4	587.6	504.6	599.2	629.1
82.5°	234.5	387.9	404.3	482.4	513.3
85°	128.3	246.0	315.5	381.1	399.5
87.5°	53.1	148.6	241.2	294.3	309.7
90°	1.0	82.0	163.1	204.6	214.2
92.5°	1.0	62.7	133.2	165.0	171.7
95°	1.0	51.1	111.9	136.0	139.9
97.5°	1.9	40.5	93.6	112.9	116.7
100°	2.9	33.8	78.2	94.6	97.5
102.5°	3.9	27.0	65.6	79.1	82.0
105°	3.9	22.2	55.0	66.6	69.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.8	13.5	32.8	41.5	43.4
115°	7.7	11.6	28.0	35.7	37.6
117.5°	7.7	9.6	24.1	29.9	31.8
120°	7.7	8.7	21.2	26.1	27.0
122.5°	7.7	7.7	18.3	23.2	24.1
125°	6.8	7.7	17.4	20.3	21.2
127.5°	7.7	7.7	15.4	18.3	19.3
130°	7.7	8.7	13.5	17.4	17.4
132.5°	8.7	9.6	12.5	16.4	16.4
135°	8.7	9.6	10.6	15.4	16.4
137.5°	9.6	9.6	9.6	14.5	15.4
140°	9.6	9.6	8.7	12.5	13.5
142.5°	8.7	9.6	8.7	11.6	12.5
145°	8.7	9.6	9.6	10.6	11.6
147.5°	9.6	9.6	9.6	9.6	10.6
150°	9.6	9.6	9.6	9.6	9.6
152.5°	9.6	9.6	9.6	9.6	9.6
155°	9.6	10.6	10.6	10.6	9.6
157.5°	9.6	10.6	10.6	10.6	10.6
160°	9.6	10.6	10.6	10.6	10.6
162.5°	10.6	10.6	10.6	10.6	10.6
165°	10.6	10.6	10.6	10.6	10.6
167.5°	10.6	11.6	10.6	10.6	10.6
170°	10.6	10.6	10.6	9.6	9.6
172.5°	10.6	10.6	10.6	9.6	9.6
175°	10.6	10.6	9.6	8.7	8.7
177.5°	11.6	10.6	9.6	8.7	7.7
180°	9.6	9.6	9.6	9.6	9.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.8	18.3	47.3	56.9	58.9
110°	5.8	15.4	39.6	48.2	50.2



(END OF REPORT)