

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: P829097

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829097
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: OHB-18SE-MCL-UNV-L740-CD
Description: 18000 LUMEN OHB SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

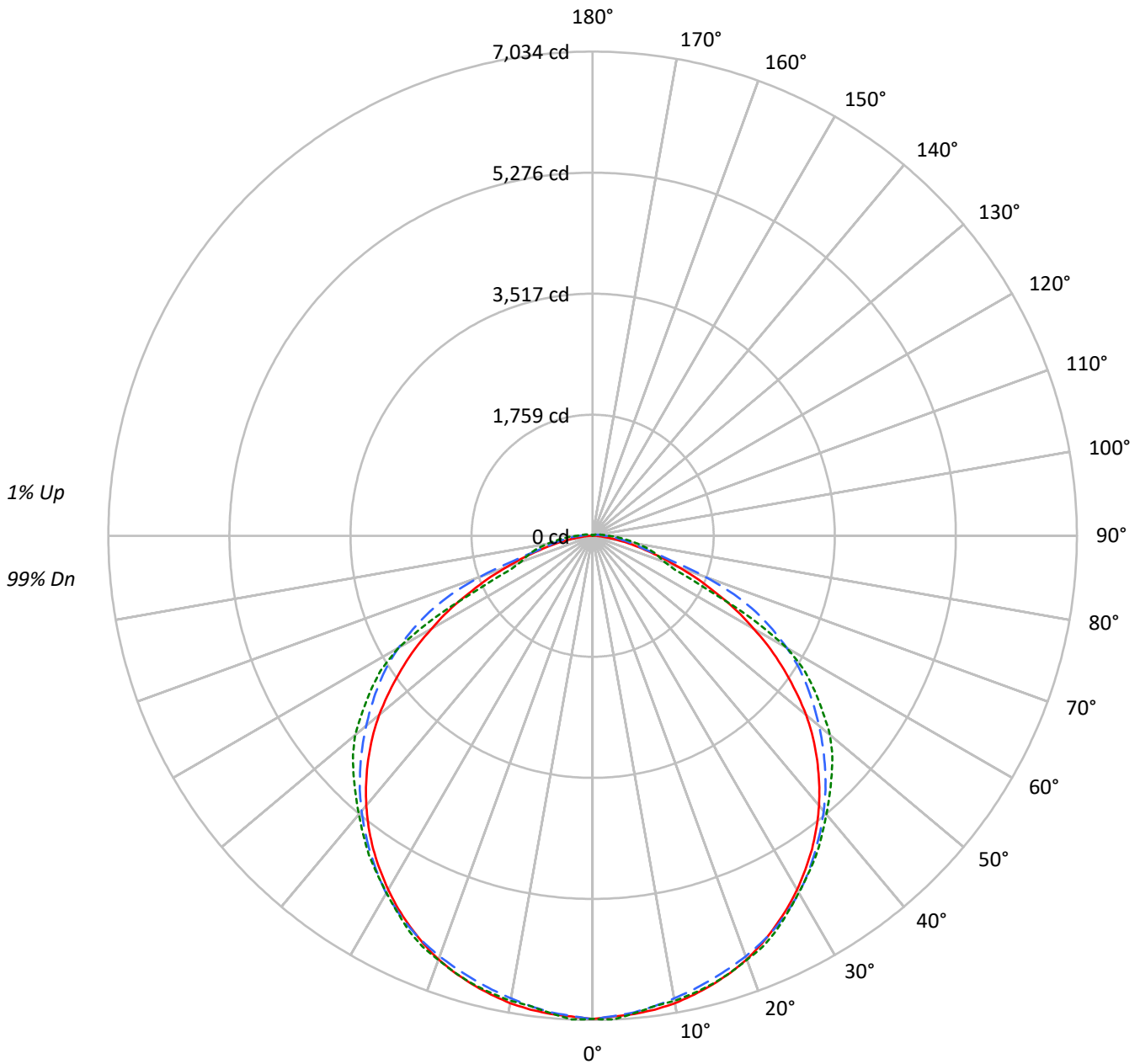
Lumens per Lamp: N/A
Luminaire Lumens: 19840.0 lumens
Efficiency: N/A
Efficacy: 184.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 107.6
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°	23448	23448	23448
5°	23210	23038	23142
10°	23040	22620	22870
15°	22808	22292	22702
20°	22574	22059	22486
25°	22211	21824	22271
30°	21820	21492	21834
35°	21367	21006	21584
40°	20802	20501	21249
45°	20054	19926	21088
50°	19075	19276	20897
55°	17594	18623	20089
60°	15700	17708	18541
65°	13284	16115	11725
70°	10499	12418	8476
75°	7651	7237	8566
80°	5075	5845	8122
85°	2606	5078	7515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.9	3.3
10°-20°	1897.9	9.6
20°-30°	2898.7	14.6
30°-40°	3517.1	17.7
40°-50°	3686.3	18.6
50°-60°	3340.3	16.8
60°-70°	2239.6	11.3
70°-80°	1005.7	5.1
80°-90°	364.9	1.8
90°-100°	109.9	0.6
100°-110°	51.8	0.3
110°-120°	26.0	0.1
120°-130°	14.3	0.1
130°-140°	9.8	0.0
140°-150°	6.6	0.0
150°-160°	4.9	0.0
160°-170°	3.2	0.0
170°-180°	1.0	0.0
0°-30°	5458.5	27.5
0°-40°	8975.6	45.2
0°-60°	16002.3	80.7
0°-90°	19612.4	98.9
90°-120°	187.6	0.9
90°-150°	218.4	1.1
90°-180°	228.0	1.1
0°-180°	19840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7019	7019	7019	7019	7019	
5°	6974	6998	6949	6971	6962	663
15°	6747	6721	6673	6732	6740	1905
25°	6268	6241	6285	6342	6324	2889
35°	5556	5569	5626	5686	5663	3473
45°	4611	4686	4773	4895	4910	3552
55°	3393	3556	3799	3951	3942	3029
65°	1991	2303	2614	2206	1802	1984
75°	784	1137	836	856	911	856
85°	135	259	332	401	420	165
90°	1	86	172	215	225	8
95°	1	54	118	143	147	1
105°	4	23	58	70	73	5
115°	8	12	29	38	40	8
125°	7	8	18	21	22	7
135°	9	10	11	16	17	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7019.4	7019.4	7019.4	7019.4	7019.4
2.5°	6991.0	7020.4	6983.9	7023.5	7033.6
5°	6973.7	6998.1	6949.4	6970.7	6961.6
7.5°	6942.3	6950.4	6892.5	6909.8	6891.5
10°	6895.6	6891.5	6823.5	6857.0	6861.1
12.5°	6826.6	6814.4	6753.5	6804.2	6805.3
15°	6747.4	6721.0	6673.3	6732.2	6740.3
17.5°	6656.1	6621.5	6590.1	6666.2	6654.0
20°	6549.5	6508.9	6502.8	6586.0	6555.6
22.5°	6417.5	6386.1	6400.3	6479.5	6460.2
25°	6268.3	6240.9	6284.6	6342.4	6324.2
27.5°	6111.0	6094.8	6144.5	6189.2	6153.7
30°	5938.5	5929.4	5995.3	6031.9	5987.2
32.5°	5750.7	5753.8	5816.7	5866.4	5824.8
35°	5555.8	5569.0	5625.9	5685.8	5663.4
37.5°	5341.7	5371.1	5428.0	5496.0	5472.6
40°	5115.4	5158.0	5220.9	5303.1	5281.8
42.5°	4870.8	4924.5	5005.7	5097.1	5095.1
45°	4610.9	4686.0	4773.3	4895.1	4910.3
47.5°	4341.0	4425.2	4535.8	4698.2	4721.6
50°	4047.6	4153.2	4291.2	4486.1	4500.3
52.5°	3720.8	3864.9	4047.6	4234.4	4217.1
55°	3393.0	3556.4	3799.0	3951.2	3942.1
57.5°	3066.2	3249.9	3544.2	3652.8	3651.8
60°	2700.8	2933.2	3255.0	3337.2	3256.0
62.5°	2362.8	2612.5	2946.4	2886.5	2608.4
65°	1991.3	2302.9	2614.5	2206.5	1801.5
67.5°	1661.5	1986.3	2220.7	1511.3	1294.1
70°	1329.6	1687.9	1731.5	1121.5	1106.3
72.5°	1035.3	1416.9	1194.6	960.1	1008.9
75°	783.5	1136.7	836.3	855.6	911.4
77.5°	571.4	872.9	650.6	750.0	795.7
80°	392.8	618.1	530.8	630.3	661.7
82.5°	246.6	408.0	425.3	507.5	540.0
85°	135.0	258.8	331.9	400.9	420.2
87.5°	55.8	156.3	253.7	309.6	325.8
90°	1.0	86.3	171.5	215.2	225.3
92.5°	1.0	66.0	140.1	173.6	180.7
95°	1.0	53.8	117.7	143.1	147.2
97.5°	2.0	42.6	98.5	118.7	122.8
100°	3.0	35.5	82.2	99.5	102.5
102.5°	4.1	28.4	69.0	83.2	86.3
105°	4.1	23.3	57.9	70.0	73.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.1	14.2	34.5	43.6	45.7
115°	8.1	12.2	29.4	37.6	39.6
117.5°	8.1	10.1	25.4	31.5	33.5
120°	8.1	9.1	22.3	27.4	28.4
122.5°	8.1	8.1	19.3	24.4	25.4
125°	7.1	8.1	18.3	21.3	22.3
127.5°	8.1	8.1	16.2	19.3	20.3
130°	8.1	9.1	14.2	18.3	18.3
132.5°	9.1	10.1	13.2	17.3	17.3
135°	9.1	10.1	11.2	16.2	17.3
137.5°	10.1	10.1	10.1	15.2	16.2
140°	10.1	10.1	9.1	13.2	14.2
142.5°	9.1	10.1	9.1	12.2	13.2
145°	9.1	10.1	10.1	11.2	12.2
147.5°	10.1	10.1	10.1	10.1	11.2
150°	10.1	10.1	10.1	10.1	10.1
152.5°	10.1	10.1	10.1	10.1	10.1
155°	10.1	11.2	11.2	11.2	10.1
157.5°	10.1	11.2	11.2	11.2	11.2
160°	10.1	11.2	11.2	11.2	11.2
162.5°	11.2	11.2	11.2	11.2	11.2
165°	11.2	11.2	11.2	11.2	11.2
167.5°	11.2	12.2	11.2	11.2	11.2
170°	11.2	11.2	11.2	10.1	10.1
172.5°	11.2	11.2	11.2	10.1	10.1
175°	11.2	11.2	10.1	9.1	9.1
177.5°	12.2	11.2	10.1	9.1	8.1
180°	10.1	10.1	10.1	10.1	10.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.1	19.3	49.7	59.9	61.9
110°	6.1	16.2	41.6	50.7	52.8



(END OF REPORT)