

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: P829013

Luminaire Tested: **OHB-18HE-A-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829013
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-18HE-A-UNV-L740-CD
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

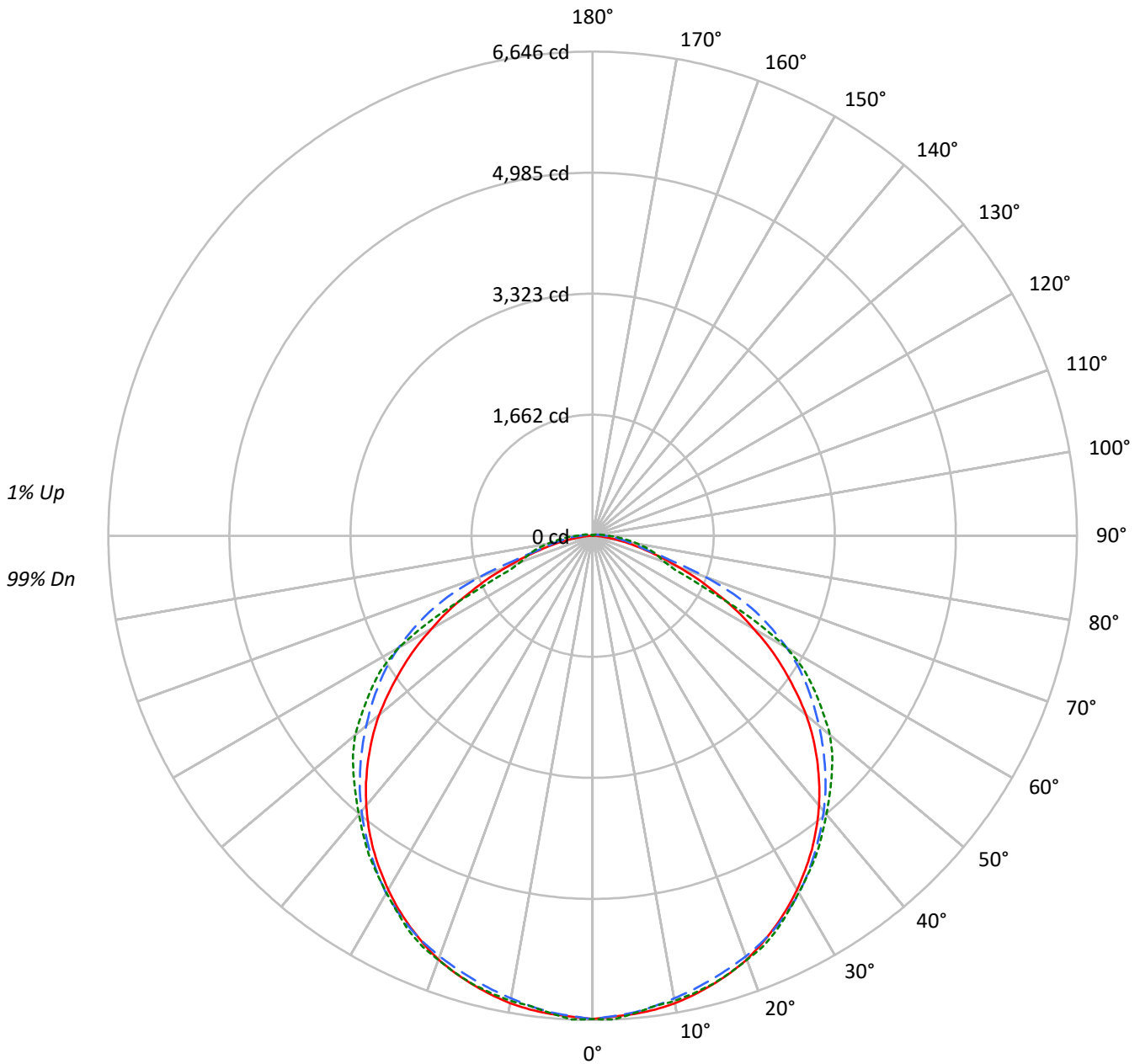
Lumens per Lamp: N/A
Luminaire Lumens: 18747.0 lumens
Efficiency: N/A
Efficacy: 178.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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°	22157	22157	22157
5°	21931	21768	21867
10°	21771	21374	21610
15°	21552	21064	21451
20°	21331	20844	21247
25°	20987	20622	21044
30°	20618	20308	20631
35°	20190	19848	20395
40°	19656	19372	20078
45°	18949	18828	19926
50°	18024	18214	19746
55°	16625	17597	18982
60°	14835	16732	17520
65°	12552	15227	11079
70°	9920	11734	8009
75°	7230	6838	8094
80°	4794	5524	7675
85°	2463	4798	7100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.4	3.3
10°-20°	1793.4	9.6
20°-30°	2739.0	14.6
30°-40°	3323.4	17.7
40°-50°	3483.2	18.6
50°-60°	3156.3	16.8
60°-70°	2116.2	11.3
70°-80°	950.3	5.1
80°-90°	344.8	1.8
90°-100°	103.8	0.6
100°-110°	49.0	0.3
110°-120°	24.5	0.1
120°-130°	13.5	0.1
130°-140°	9.3	0.0
140°-150°	6.3	0.0
150°-160°	4.6	0.0
160°-170°	3.0	0.0
170°-180°	0.9	0.0
0°-30°	5157.8	27.5
0°-40°	8481.2	45.2
0°-60°	15120.7	80.7
0°-90°	18532.0	98.9
90°-120°	177.3	0.9
90°-150°	206.4	1.1
90°-180°	215.0	1.1
0°-180°	18747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6633	6633	6633	6633	6633	
5°	6590	6613	6566	6587	6578	627
15°	6376	6351	6306	6361	6369	1800
25°	5923	5897	5938	5993	5976	2730
35°	5250	5262	5316	5372	5351	3281
45°	4357	4428	4510	4625	4640	3356
55°	3206	3360	3590	3734	3725	2862
65°	1882	2176	2470	2085	1702	1875
75°	740	1074	790	808	861	809
85°	128	245	314	379	397	156
90°	1	82	162	203	213	8
95°	1	51	111	135	139	1
105°	4	22	55	66	69	4
115°	8	12	28	36	37	7
125°	7	8	17	20	21	7
135°	9	10	10	15	16	7
145°	9	10	10	10	12	6
155°	10	10	10	10	10	4
165°	10	10	10	10	10	3
175°	10	10	10	9	9	1
180°	10	10	10	10	10	



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CATALOG NUMBER: OHB-18HE-A-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6632.7	6632.7	6632.7	6632.7	6632.7
2.5°	6605.9	6633.7	6599.1	6636.5	6646.1
5°	6589.5	6612.6	6566.5	6586.7	6578.0
7.5°	6559.8	6567.5	6512.8	6529.1	6511.9
10°	6515.7	6511.9	6447.6	6479.3	6483.1
12.5°	6450.5	6439.0	6381.4	6429.4	6430.3
15°	6375.7	6350.7	6305.7	6361.3	6369.0
17.5°	6289.4	6256.8	6227.0	6299.0	6287.5
20°	6188.7	6150.3	6144.6	6223.2	6194.4
22.5°	6064.0	6034.3	6047.7	6122.5	6104.3
25°	5923.0	5897.1	5938.4	5993.0	5975.8
27.5°	5774.4	5759.0	5806.0	5848.2	5814.6
30°	5611.3	5602.7	5665.0	5699.6	5657.4
32.5°	5433.9	5436.8	5496.2	5543.2	5503.9
35°	5249.8	5262.2	5315.9	5372.5	5351.4
37.5°	5047.4	5075.2	5128.9	5193.2	5171.1
40°	4833.5	4873.8	4933.3	5011.0	4990.8
42.5°	4602.4	4653.3	4730.0	4816.3	4814.4
45°	4356.9	4427.9	4510.4	4625.4	4639.8
47.5°	4101.8	4181.4	4285.9	4439.4	4461.4
50°	3824.6	3924.4	4054.8	4238.9	4252.4
52.5°	3515.8	3652.0	3824.6	4001.1	3984.8
55°	3206.1	3360.5	3589.7	3733.5	3724.9
57.5°	2897.3	3070.8	3349.0	3451.6	3450.6
60°	2552.0	2771.6	3075.6	3153.3	3076.6
62.5°	2232.6	2468.6	2784.1	2727.5	2464.7
65°	1881.6	2176.1	2470.5	2084.9	1702.3
67.5°	1569.9	1876.8	2098.4	1428.0	1222.8
70°	1256.3	1594.9	1636.1	1059.7	1045.4
72.5°	978.2	1338.8	1128.8	907.2	953.3
75°	740.4	1074.1	790.2	808.5	861.2
77.5°	539.9	824.8	614.7	708.7	751.9
80°	371.1	584.1	501.6	595.6	625.3
82.5°	233.0	385.5	401.8	479.5	510.2
85°	127.6	244.6	313.6	378.8	397.0
87.5°	52.7	147.7	239.8	292.5	307.9
90°	1.0	81.5	162.1	203.3	212.9
92.5°	1.0	62.3	132.3	164.0	170.7
95°	1.0	50.8	111.2	135.2	139.1
97.5°	1.9	40.3	93.0	112.2	116.0
100°	2.9	33.6	77.7	94.0	96.9
102.5°	3.8	26.9	65.2	78.6	81.5
105°	3.8	22.1	54.7	66.2	69.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.7	13.4	32.6	41.2	43.2
115°	7.7	11.5	27.8	35.5	37.4
117.5°	7.7	9.6	24.0	29.7	31.6
120°	7.7	8.6	21.1	25.9	26.9
122.5°	7.7	7.7	18.2	23.0	24.0
125°	6.7	7.7	17.3	20.1	21.1
127.5°	7.7	7.7	15.3	18.2	19.2
130°	7.7	8.6	13.4	17.3	17.3
132.5°	8.6	9.6	12.5	16.3	16.3
135°	8.6	9.6	10.5	15.3	16.3
137.5°	9.6	9.6	9.6	14.4	15.3
140°	9.6	9.6	8.6	12.5	13.4
142.5°	8.6	9.6	8.6	11.5	12.5
145°	8.6	9.6	9.6	10.5	11.5
147.5°	9.6	9.6	9.6	9.6	10.5
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	10.5	10.5	10.5	9.6
157.5°	9.6	10.5	10.5	10.5	10.5
160°	9.6	10.5	10.5	10.5	10.5
162.5°	10.5	10.5	10.5	10.5	10.5
165°	10.5	10.5	10.5	10.5	10.5
167.5°	10.5	11.5	10.5	10.5	10.5
170°	10.5	10.5	10.5	9.6	9.6
172.5°	10.5	10.5	10.5	9.6	9.6
175°	10.5	10.5	9.6	8.6	8.6
177.5°	11.5	10.5	9.6	8.6	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	18.2	47.0	56.6	58.5
110°	5.8	15.3	39.3	48.0	49.9



(END OF REPORT)