

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: P829026

Luminaire Tested: **OHB-18HE-MCL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829026
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-MCL-UNV-L750-CD
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

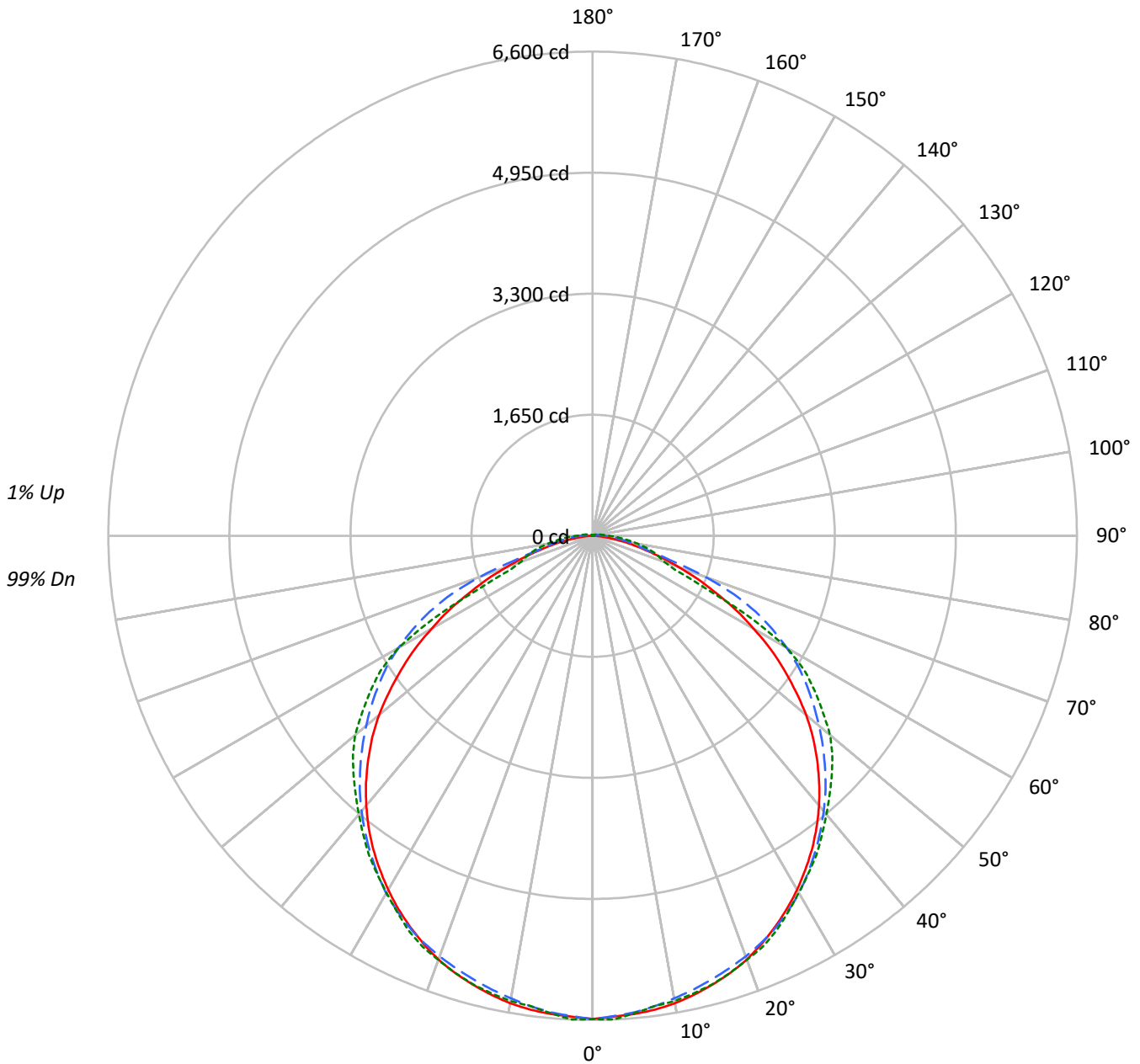
Lumens per Lamp: N/A
Luminaire Lumens: 18618.0 lumens
Efficiency: N/A
Efficacy: 177.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

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°	22004	22004	22004
5°	21780	21619	21716
10°	21621	21227	21461
15°	21403	20919	21304
20°	21184	20701	21101
25°	20843	20480	20899
30°	20476	20168	20489
35°	20051	19712	20255
40°	19521	19239	19940
45°	18819	18699	19789
50°	17900	18089	19610
55°	16511	17476	18852
60°	14732	16617	17399
65°	12466	15122	11003
70°	9852	11654	7954
75°	7180	6791	8039
80°	4762	5485	7623
85°	2446	4764	7051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.1	3.3
10°-20°	1781.0	9.6
20°-30°	2720.2	14.6
30°-40°	3300.5	17.7
40°-50°	3459.2	18.6
50°-60°	3134.6	16.8
60°-70°	2101.6	11.3
70°-80°	943.7	5.1
80°-90°	342.5	1.8
90°-100°	103.1	0.6
100°-110°	48.6	0.3
110°-120°	24.4	0.1
120°-130°	13.4	0.1
130°-140°	9.2	0.0
140°-150°	6.2	0.0
150°-160°	4.6	0.0
160°-170°	3.0	0.0
170°-180°	0.9	0.0
0°-30°	5122.3	27.5
0°-40°	8422.8	45.2
0°-60°	15016.6	80.7
0°-90°	18404.4	98.9
90°-120°	176.1	0.9
90°-150°	205.0	1.1
90°-180°	214.0	1.1
0°-180°	18618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6587	6587	6587	6587	6587	
5°	6544	6567	6521	6541	6533	622
15°	6332	6307	6262	6318	6325	1788
25°	5882	5856	5898	5952	5935	2711
35°	5214	5226	5279	5336	5315	3259
45°	4327	4397	4479	4594	4608	3333
55°	3184	3337	3565	3708	3699	2842
65°	1869	2161	2454	2071	1691	1862
75°	735	1067	785	803	855	804
85°	127	243	311	376	394	155
90°	1	81	161	202	211	8
95°	1	50	110	134	138	1
105°	4	22	54	66	69	4
115°	8	11	28	35	37	7
125°	7	8	17	20	21	7
135°	9	10	10	15	16	7
145°	9	10	10	10	11	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6587.1	6587.1	6587.1	6587.1	6587.1
2.5°	6560.4	6588.0	6553.7	6590.9	6600.4
5°	6544.2	6567.1	6521.3	6541.3	6532.8
7.5°	6514.7	6522.3	6468.0	6484.2	6467.1
10°	6470.9	6467.1	6403.2	6434.7	6438.5
12.5°	6406.1	6394.7	6337.5	6385.1	6386.1
15°	6331.8	6307.0	6262.3	6317.5	6325.1
17.5°	6246.1	6213.7	6184.2	6255.6	6244.2
20°	6146.1	6108.0	6102.3	6180.4	6151.8
22.5°	6022.3	5992.7	6006.1	6080.4	6062.3
25°	5882.3	5856.5	5897.5	5951.8	5934.6
27.5°	5734.6	5719.4	5766.1	5808.0	5774.6
30°	5572.7	5564.1	5626.1	5660.3	5618.4
32.5°	5396.5	5399.4	5458.4	5505.1	5466.0
35°	5213.6	5226.0	5279.4	5335.6	5314.6
37.5°	5012.7	5040.3	5093.6	5157.5	5135.5
40°	4800.3	4840.3	4899.3	4976.5	4956.5
42.5°	4570.8	4621.2	4697.4	4783.1	4781.2
45°	4326.9	4397.4	4479.3	4593.6	4607.9
47.5°	4073.6	4152.6	4256.4	4408.8	4430.7
50°	3798.3	3897.4	4026.9	4209.8	4223.1
52.5°	3491.6	3626.9	3798.3	3973.6	3957.4
55°	3184.0	3337.3	3565.0	3707.8	3699.3
57.5°	2877.3	3049.7	3325.9	3427.8	3426.9
60°	2534.4	2752.5	3054.5	3131.6	3055.4
62.5°	2217.3	2451.6	2764.9	2708.7	2447.8
65°	1868.7	2161.1	2453.5	2070.6	1690.6
67.5°	1559.1	1863.9	2083.9	1418.2	1214.4
70°	1247.7	1583.9	1624.9	1052.4	1038.2
72.5°	971.5	1329.6	1121.0	901.0	946.7
75°	735.3	1066.7	784.8	802.9	855.3
77.5°	536.2	819.1	610.5	703.9	746.7
80°	368.6	580.0	498.1	591.5	621.0
82.5°	231.4	382.9	399.1	476.2	506.7
85°	126.7	242.9	311.4	376.2	394.3
87.5°	52.4	146.7	238.1	290.5	305.7
90°	1.0	81.0	161.0	201.9	211.4
92.5°	1.0	61.9	131.4	162.9	169.5
95°	1.0	50.5	110.5	134.3	138.1
97.5°	1.9	40.0	92.4	111.4	115.2
100°	2.9	33.3	77.1	93.3	96.2
102.5°	3.8	26.7	64.8	78.1	81.0
105°	3.8	21.9	54.3	65.7	68.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.7	13.3	32.4	41.0	42.9
115°	7.6	11.4	27.6	35.2	37.1
117.5°	7.6	9.5	23.8	29.5	31.4
120°	7.6	8.6	21.0	25.7	26.7
122.5°	7.6	7.6	18.1	22.9	23.8
125°	6.7	7.6	17.1	20.0	21.0
127.5°	7.6	7.6	15.2	18.1	19.0
130°	7.6	8.6	13.3	17.1	17.1
132.5°	8.6	9.5	12.4	16.2	16.2
135°	8.6	9.5	10.5	15.2	16.2
137.5°	9.5	9.5	9.5	14.3	15.2
140°	9.5	9.5	8.6	12.4	13.3
142.5°	8.6	9.5	8.6	11.4	12.4
145°	8.6	9.5	9.5	10.5	11.4
147.5°	9.5	9.5	9.5	9.5	10.5
150°	9.5	9.5	9.5	9.5	9.5
152.5°	9.5	9.5	9.5	9.5	9.5
155°	9.5	10.5	10.5	10.5	9.5
157.5°	9.5	10.5	10.5	10.5	10.5
160°	9.5	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	11.4	10.5	10.5	10.5
170°	10.5	10.5	10.5	9.5	9.5
172.5°	10.5	10.5	10.5	9.5	9.5
175°	10.5	10.5	9.5	8.6	8.6
177.5°	11.4	10.5	9.5	8.6	7.6
180°	9.5	9.5	9.5	9.5	9.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.8	18.1	46.7	56.2	58.1
110°	5.7	15.2	39.0	47.6	49.5



(END OF REPORT)