

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: P829914

Luminaire Tested: **OHBL-18HE-N-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-N-UNV-L750-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

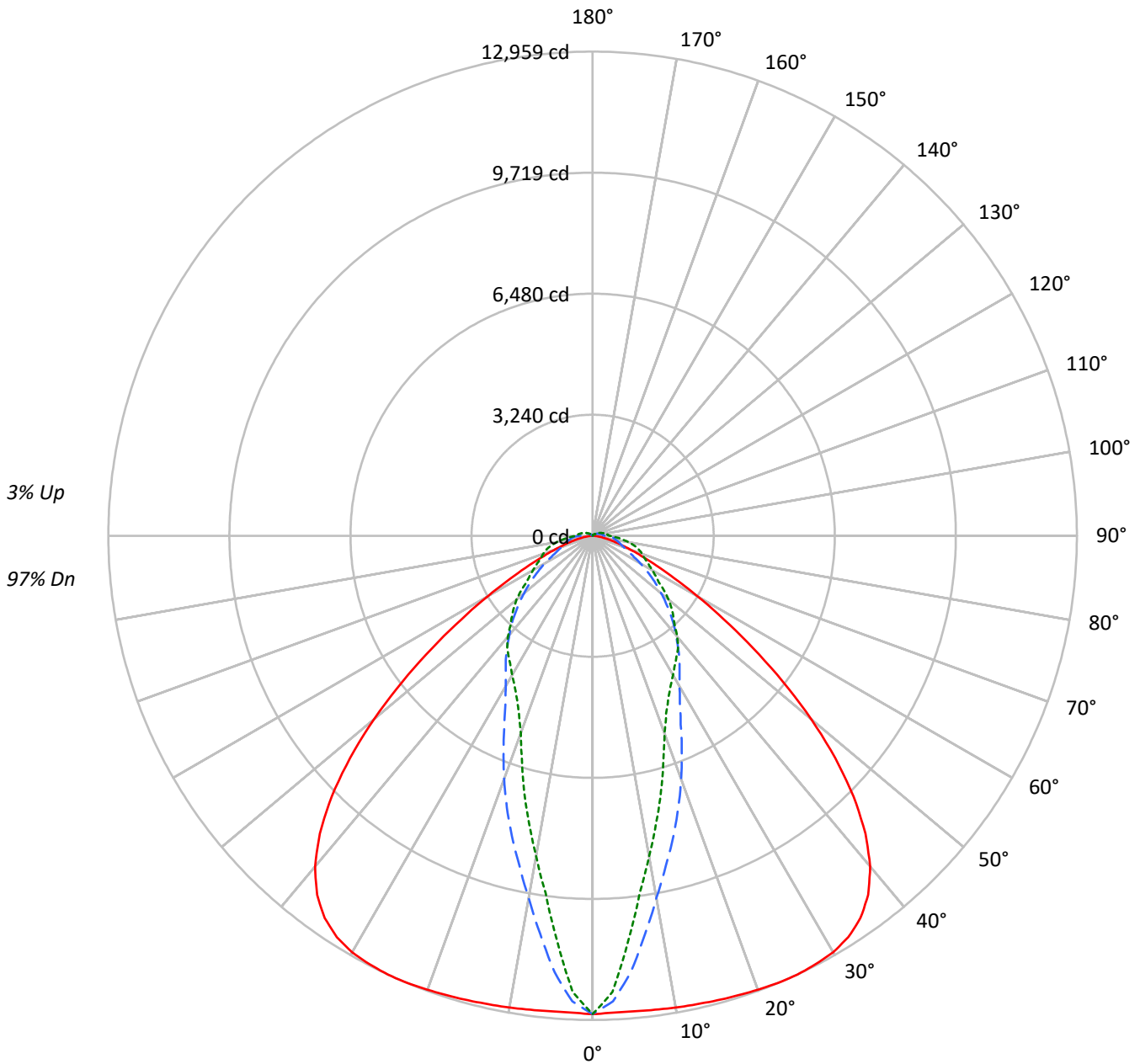
Lumens per Lamp: N/A
Luminaire Lumens: 18894.0 lumens
Efficiency: N/A
Efficacy: 183.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
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				20				
RC	80				70				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	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21865	21865	21865
5°	21821	19912	18513
10°	22067	16773	14845
15°	22498	14345	12184
20°	23130	12129	9855
25°	23930	10039	8635
30°	24757	8649	8022
35°	25272	7882	7642
40°	24840	7120	7250
45°	22851	6434	6713
50°	19280	5684	6300
55°	14650	4979	5606
60°	10266	4270	5367
65°	6905	3677	5254
70°	4716	3451	5512
75°	3273	3559	5890
80°	2253	3941	6064
85°	1317	4930	6361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.6	5.7
10°-20°	2535.1	13.4
20°-30°	3177.7	16.8
30°-40°	3371.9	17.8
40°-50°	3048.7	16.1
50°-60°	2210.5	11.7
60°-70°	1387.2	7.3
70°-80°	918.0	4.9
80°-90°	528.9	2.8
90°-100°	256.2	1.4
100°-110°	176.9	0.9
110°-120°	109.1	0.6
120°-130°	52.8	0.3
130°-140°	24.3	0.1
140°-150°	13.3	0.1
150°-160°	5.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6790.4	35.9
0°-40°	10162.3	53.8
0°-60°	15421.5	81.6
0°-90°	18255.6	96.6
90°-120°	542.2	2.9
90°-150°	632.6	3.3
90°-180°	638.0	3.4
0°-180°	18894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12802	12802	12802	12802	12802	
5°	12776	12448	11717	11174	10892	###
15°	12874	10493	8334	7412	7075	3651
25°	12959	8113	5580	4953	4796	5987
35°	12495	5394	4050	3923	3922	7767
45°	9878	3416	2935	3006	3057	7525
55°	5229	2118	1915	2077	2152	4725
65°	1870	1228	1109	1421	1579	1946
75°	578	662	744	1156	1226	644
85°	101	274	545	758	696	121
90°	0	114	316	445	448	7
95°	5	80	278	378	395	4
105°	10	54	202	268	275	10
115°	13	38	136	171	174	13
125°	15	20	69	88	86	13
135°	12	15	30	48	48	10
145°	15	16	18	28	27	9
155°	15	18	20	21	18	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-18HE-N-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12801.7	12801.7	12801.7	12801.7	12801.7
2.5°	12774.9	12701.8	12473.9	12335.0	12218.1
5°	12776.1	12448.4	11717.3	11173.9	10892.5
7.5°	12794.4	12065.8	10748.7	9955.5	9646.0
10°	12822.4	11591.8	9844.6	8999.1	8710.3
12.5°	12843.1	11058.2	9049.0	8180.3	7863.5
15°	12873.6	10492.8	8333.8	7411.5	7075.2
17.5°	12901.6	9960.4	7627.2	6663.4	6289.4
20°	12929.6	9386.5	6920.5	5927.5	5619.2
22.5°	12956.4	8781.0	6230.9	5356.1	5145.3
25°	12958.9	8113.3	5580.3	4952.8	4795.6
27.5°	12927.2	7421.3	5052.7	4615.3	4517.8
30°	12872.4	6749.9	4643.3	4371.6	4302.2
32.5°	12735.9	6065.2	4326.5	4136.5	4096.2
35°	12494.7	5393.8	4050.0	3923.2	3922.0
37.5°	12114.5	4798.0	3750.2	3728.3	3755.1
40°	11552.8	4276.6	3466.3	3524.8	3524.8
42.5°	10803.5	3823.3	3209.3	3269.0	3253.1
45°	9877.5	3416.4	2935.1	3005.8	3057.0
47.5°	8804.1	3058.2	2654.9	2791.3	2862.0
50°	7636.9	2717.0	2399.0	2573.3	2653.7
52.5°	6413.6	2401.5	2149.3	2349.1	2413.6
55°	5229.4	2117.6	1915.3	2077.4	2151.7
57.5°	4157.2	1847.1	1686.3	1839.8	1993.3
60°	3234.8	1614.4	1470.6	1689.9	1843.4
62.5°	2470.9	1407.2	1268.4	1549.8	1703.3
65°	1870.2	1228.1	1108.7	1420.7	1579.0
67.5°	1409.7	1073.4	984.5	1326.8	1481.6
70°	1058.8	923.5	884.6	1268.4	1407.2
72.5°	782.2	785.9	805.4	1217.2	1323.2
75°	577.5	661.6	744.4	1156.3	1225.7
77.5°	413.0	548.3	689.6	1083.2	1107.5
80°	286.3	447.2	632.3	986.9	966.2
82.5°	179.1	358.2	581.2	880.9	823.6
85°	101.1	274.1	544.6	757.8	695.7
87.5°	45.1	204.7	476.4	590.9	551.9
90°	0.0	114.5	315.6	444.7	448.4
92.5°	2.4	95.0	291.2	406.9	419.1
95°	4.9	80.4	277.8	377.7	394.8
97.5°	6.1	70.7	260.7	350.9	365.5
100°	7.3	63.4	240.0	322.9	335.1
102.5°	8.5	58.5	220.5	293.6	303.4
105°	9.7	53.6	202.3	268.0	275.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.2	41.4	152.3	192.5	198.6
115°	13.4	37.8	136.5	170.6	174.2
117.5°	14.6	32.9	119.4	149.9	151.1
120°	14.6	29.2	102.3	127.9	127.9
122.5°	14.6	24.4	85.3	106.0	104.8
125°	14.6	19.5	69.4	87.7	86.5
127.5°	13.4	15.8	56.0	73.1	71.9
130°	13.4	15.8	45.1	62.1	62.1
132.5°	12.2	14.6	36.6	53.6	53.6
135°	12.2	14.6	30.5	47.5	47.5
137.5°	12.2	15.8	25.6	41.4	41.4
140°	12.2	14.6	21.9	36.6	36.6
142.5°	13.4	14.6	19.5	31.7	31.7
145°	14.6	15.8	18.3	28.0	26.8
147.5°	14.6	17.1	18.3	24.4	23.1
150°	14.6	18.3	18.3	21.9	20.7
152.5°	14.6	18.3	18.3	20.7	19.5
155°	14.6	18.3	19.5	20.7	18.3
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°	9.7	50.0	185.2	240.0	248.6
110°	11.0	45.1	169.4	214.4	223.0



(END OF REPORT)