

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: P829038

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-18HE-MFL-UNV-L750-CD
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

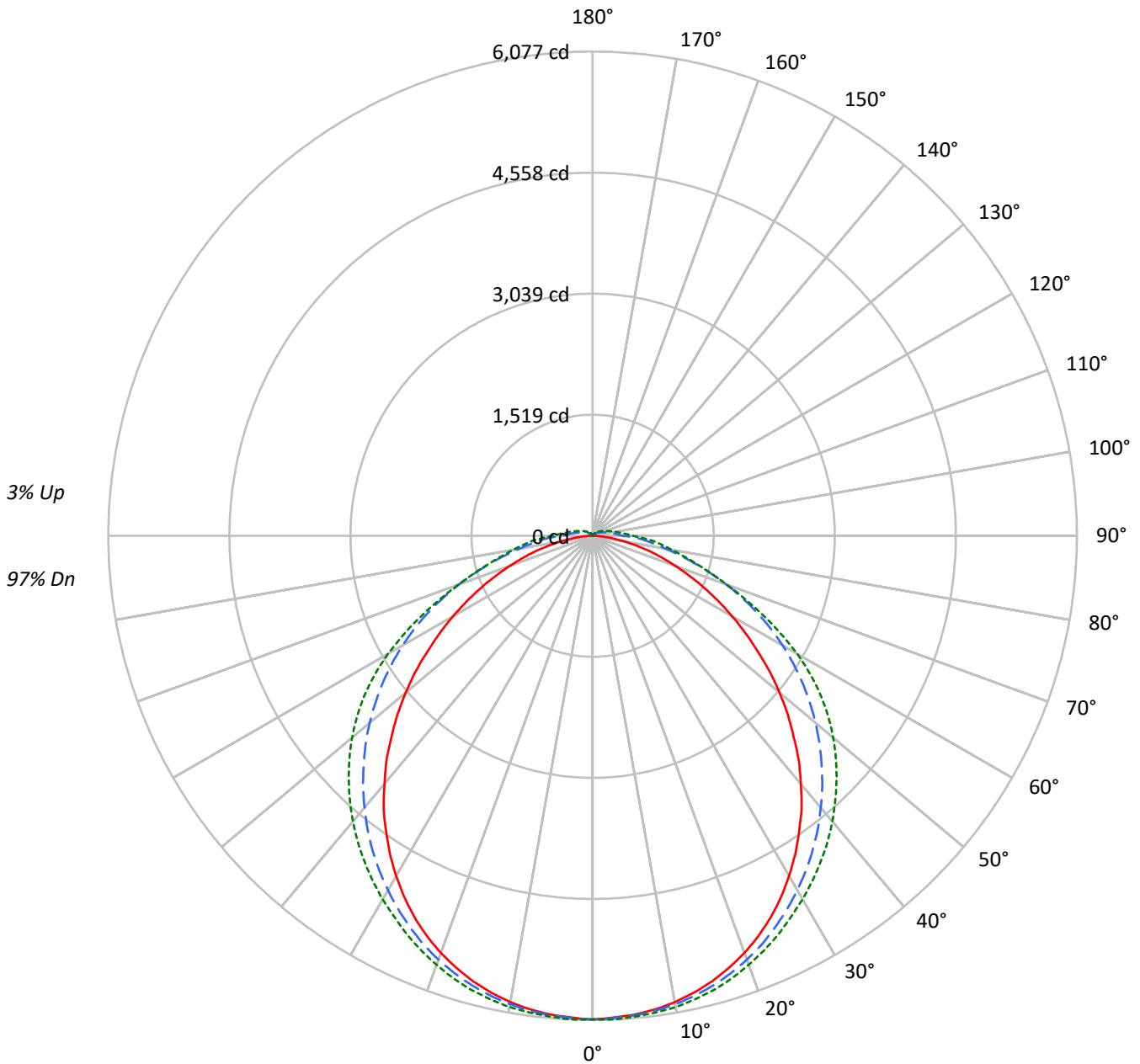
Lumens per Lamp: N/A
Luminaire Lumens: 18170.0 lumens
Efficiency: N/A
Efficacy: 173.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

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				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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20281	20281	20281
5°	20077	20028	20137
10°	19863	19791	20019
15°	19568	19521	19868
20°	19200	19204	19652
25°	18732	18823	19434
30°	18115	18413	19214
35°	17383	17980	19021
40°	16519	17486	18830
45°	15516	16952	18589
50°	14425	16405	18297
55°	13106	15747	17817
60°	11755	14978	16880
65°	10288	14012	15356
70°	8706	12798	13707
75°	7095	11392	12569
80°	5125	10243	12384
85°	2926	10093	13658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.3	3.2
10°-20°	1650.4	9.1
20°-30°	2495.9	13.7
30°-40°	2996.4	16.5
40°-50°	3094.8	17.0
50°-60°	2784.3	15.3
60°-70°	2097.4	11.5
70°-80°	1266.5	7.0
80°-90°	619.4	3.4
90°-100°	260.7	1.4
100°-110°	148.8	0.8
110°-120°	87.4	0.5
120°-130°	49.4	0.3
130°-140°	26.0	0.1
140°-150°	12.7	0.1
150°-160°	4.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4721.6	26.0
0°-40°	7717.9	42.5
0°-60°	13597.0	74.8
0°-90°	17580.3	96.8
90°-120°	496.9	2.7
90°-150°	585.0	3.2
90°-180°	590.0	3.2
0°-180°	18170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6071	6071	6071	6071	6071	
5°	6032	6049	6042	6065	6058	573
15°	5789	5817	5844	5893	5899	1632
25°	5287	5345	5420	5505	5518	2432
35°	4520	4625	4816	4961	4991	2826
45°	3568	3747	4061	4282	4328	2754
55°	2527	2789	3212	3455	3496	2266
65°	1542	1857	2273	2386	2360	1532
75°	727	1043	1316	1351	1337	775
85°	152	400	660	750	764	175
90°	0	156	377	476	495	10
95°	7	106	282	360	373	6
105°	10	61	163	214	223	10
115°	12	34	101	135	141	12
125°	12	16	61	88	92	11
135°	10	13	31	54	59	8
145°	15	13	15	27	31	9
155°	15	16	15	13	15	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6071.2	6071.2	6071.2	6071.2	6071.2
2.5°	6053.3	6068.2	6059.3	6078.6	6077.1
5°	6032.5	6048.9	6041.5	6065.2	6057.8
7.5°	5996.9	6014.7	6013.2	6040.0	6037.0
10°	5944.9	5964.2	5970.1	6005.8	6005.8
12.5°	5873.6	5898.8	5913.7	5956.8	5958.3
15°	5788.9	5817.1	5843.8	5892.9	5898.8
17.5°	5686.3	5722.0	5759.1	5815.6	5823.0
20°	5570.4	5610.6	5661.1	5720.5	5729.4
22.5°	5436.7	5484.3	5549.6	5619.5	5629.9
25°	5286.6	5344.6	5420.4	5505.1	5518.4
27.5°	5115.8	5182.6	5285.2	5380.3	5392.1
30°	4930.0	5008.8	5136.6	5249.5	5268.8
32.5°	4733.9	4824.5	4982.0	5108.3	5135.1
35°	4519.9	4625.4	4815.6	4961.2	4991.0
37.5°	4309.0	4424.9	4640.3	4806.7	4842.4
40°	4062.3	4206.4	4453.1	4637.3	4680.4
42.5°	3830.5	3986.5	4265.9	4466.5	4508.1
45°	3567.5	3747.3	4060.8	4282.2	4328.3
47.5°	3320.9	3515.5	3863.2	4092.0	4139.6
50°	3060.8	3274.8	3652.2	3891.4	3940.5
52.5°	2800.8	3031.1	3433.8	3681.9	3728.0
55°	2527.4	2788.9	3212.4	3454.6	3496.2
57.5°	2273.3	2549.7	2985.1	3215.4	3240.6
60°	2022.2	2309.0	2753.3	2955.4	2964.3
62.5°	1777.1	2078.7	2515.5	2676.0	2664.1
65°	1542.3	1857.3	2273.3	2386.3	2359.5
67.5°	1316.5	1641.9	2025.2	2098.0	2062.4
70°	1102.5	1432.4	1784.5	1821.6	1789.0
72.5°	913.8	1233.3	1540.8	1572.0	1548.3
75°	726.6	1043.1	1316.5	1350.6	1337.3
77.5°	551.2	858.8	1109.9	1154.5	1157.5
80°	396.7	690.9	930.1	1000.0	1008.9
82.5°	261.5	536.4	780.1	869.2	882.6
85°	151.6	399.7	659.7	750.4	763.7
87.5°	65.4	288.3	530.4	612.2	628.5
90°	0.0	156.0	377.4	475.5	494.8
92.5°	4.5	129.3	323.9	413.1	429.4
95°	7.4	105.5	282.3	359.6	372.9
97.5°	8.9	89.2	245.2	313.5	326.9
100°	8.9	77.3	212.5	274.9	286.8
102.5°	8.9	68.3	185.7	240.7	251.1
105°	10.4	60.9	163.4	214.0	222.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.9	40.1	112.9	151.6	157.5
115°	11.9	34.2	101.0	135.2	141.2
117.5°	13.4	29.7	89.2	121.8	126.3
120°	13.4	25.3	78.7	108.5	114.4
122.5°	13.4	20.8	69.8	98.1	102.5
125°	11.9	16.3	60.9	87.7	92.1
127.5°	10.4	13.4	52.0	78.7	83.2
130°	10.4	11.9	44.6	69.8	74.3
132.5°	10.4	13.4	37.1	60.9	66.9
135°	10.4	13.4	31.2	53.5	59.4
137.5°	10.4	13.4	25.3	46.1	52.0
140°	11.9	13.4	20.8	38.6	44.6
142.5°	13.4	13.4	16.3	32.7	37.1
145°	14.9	13.4	14.9	26.7	31.2
147.5°	14.9	14.9	14.9	20.8	25.3
150°	14.9	16.3	14.9	16.3	20.8
152.5°	14.9	16.3	14.9	13.4	16.3
155°	14.9	16.3	14.9	13.4	14.9
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°	10.4	53.5	144.1	190.2	197.6
110°	10.4	47.5	127.8	169.4	176.8



(END OF REPORT)