

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: P829899

Luminaire Tested: **OHBL-18HE-MFL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829899
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: OHBL-18HE-MFL-UNV-L730-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

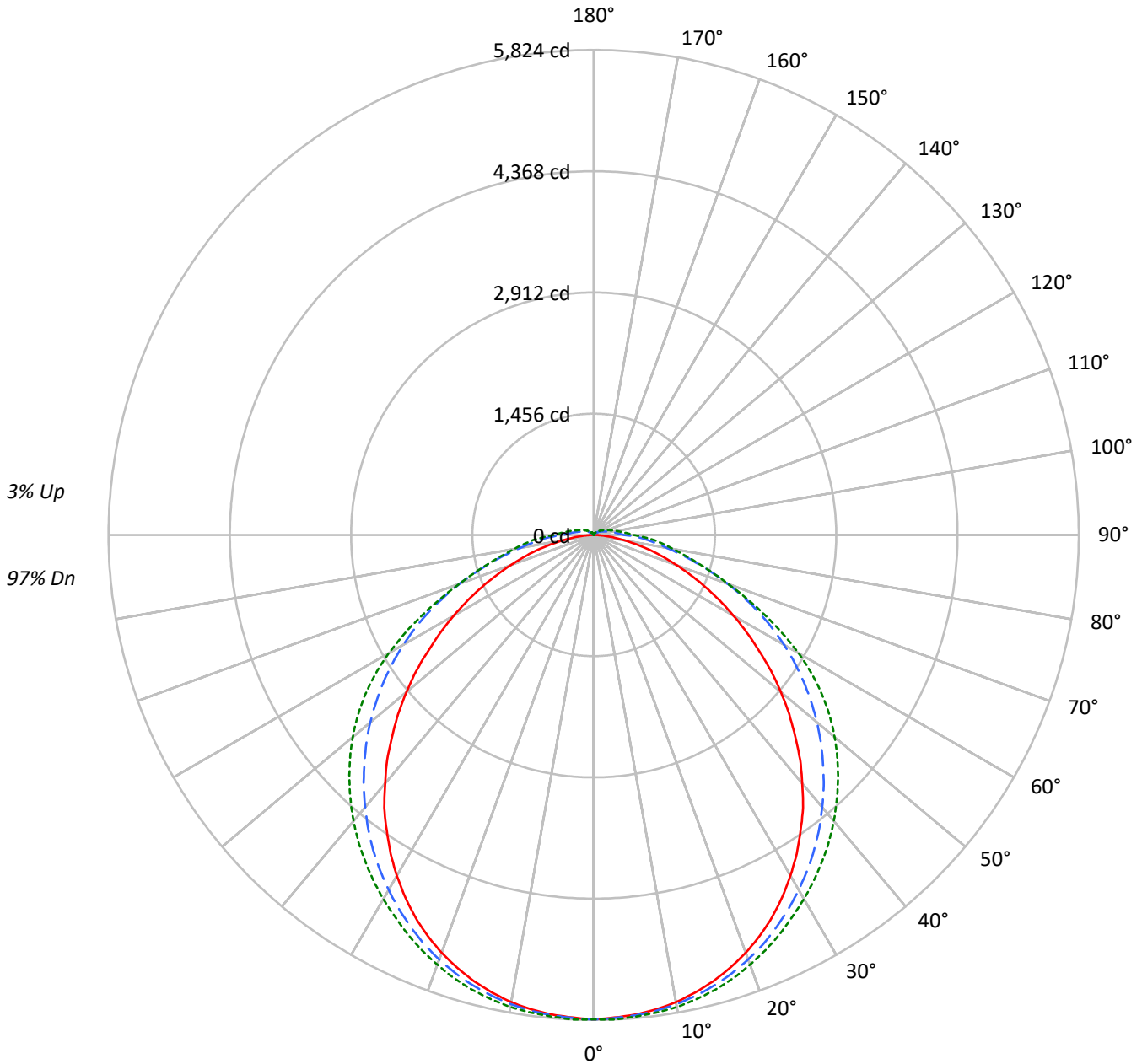
Lumens per Lamp: N/A
Luminaire Lumens: 17414.0 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				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°	9938	9938	9938
5°	9874	9839	9868
10°	9805	9748	9810
15°	9696	9640	9736
20°	9550	9509	9630
25°	9356	9346	9523
30°	9087	9170	9415
35°	8762	8982	9321
40°	8371	8766	9227
45°	7910	8531	9109
50°	7406	8294	8966
55°	6786	8003	8731
60°	6151	7662	8272
65°	5458	7226	7525
70°	4706	6673	6716
75°	3946	6032	6159
80°	2992	5557	6068
85°	1893	5724	6692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.3	3.2
10°-20°	1581.7	9.1
20°-30°	2392.1	13.7
30°-40°	2871.7	16.5
40°-50°	2966.0	17.0
50°-60°	2668.5	15.3
60°-70°	2010.1	11.5
70°-80°	1213.8	7.0
80°-90°	593.6	3.4
90°-100°	249.9	1.4
100°-110°	142.6	0.8
110°-120°	83.7	0.5
120°-130°	47.4	0.3
130°-140°	24.9	0.1
140°-150°	12.1	0.1
150°-160°	4.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4525.1	26.0
0°-40°	7396.8	42.5
0°-60°	13031.3	74.8
0°-90°	16848.8	96.8
90°-120°	476.2	2.7
90°-150°	560.6	3.2
90°-180°	565.0	3.2
0°-180°	17414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5819	5819	5819	5819	5819	
5°	5782	5797	5790	5813	5806	549
15°	5548	5575	5601	5648	5653	1564
25°	5067	5122	5195	5276	5289	2331
35°	4332	4433	4615	4755	4783	2708
45°	3419	3591	3892	4104	4148	2640
55°	2422	2673	3079	3311	3351	2172
65°	1478	1780	2179	2287	2261	1469
75°	696	1000	1262	1294	1282	743
85°	145	383	632	719	732	168
90°	0	150	362	456	474	9
95°	7	101	271	345	357	6
105°	10	58	157	205	214	10
115°	11	33	97	130	135	12
125°	11	16	58	84	88	10
135°	10	13	30	51	57	8
145°	14	13	14	26	30	8
155°	14	16	14	13	14	4
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°	5818.6	5818.6	5818.6	5818.6	5818.6
2.5°	5801.5	5815.7	5807.2	5825.7	5824.3
5°	5781.5	5797.2	5790.1	5812.9	5805.8
7.5°	5747.4	5764.5	5763.0	5788.7	5785.8
10°	5697.5	5716.0	5721.7	5755.9	5755.9
12.5°	5629.2	5653.4	5667.6	5708.9	5710.3
15°	5548.0	5575.1	5600.7	5647.7	5653.4
17.5°	5449.7	5483.9	5519.5	5573.6	5580.8
20°	5338.7	5377.1	5425.5	5482.5	5491.0
22.5°	5210.5	5256.1	5318.7	5385.7	5395.6
25°	5066.7	5122.2	5194.8	5276.0	5288.8
27.5°	4902.9	4967.0	5065.3	5156.4	5167.8
30°	4724.9	4800.4	4922.9	5031.1	5049.6
32.5°	4536.9	4623.8	4774.8	4895.8	4921.4
35°	4331.9	4433.0	4615.3	4754.8	4783.3
37.5°	4129.7	4240.8	4447.2	4606.7	4640.9
40°	3893.3	4031.4	4267.8	4444.4	4485.7
42.5°	3671.1	3820.7	4088.4	4280.6	4320.5
45°	3419.1	3591.4	3891.9	4104.0	4148.2
47.5°	3182.7	3369.2	3702.5	3921.8	3967.3
50°	2933.5	3138.6	3500.3	3729.5	3776.5
52.5°	2684.3	2905.0	3290.9	3528.7	3572.9
55°	2422.3	2672.9	3078.7	3310.9	3350.7
57.5°	2178.8	2443.6	2860.9	3081.6	3105.8
60°	1938.1	2212.9	2638.7	2832.4	2840.9
62.5°	1703.1	1992.2	2410.9	2564.7	2553.3
65°	1478.1	1780.0	2178.8	2287.0	2261.4
67.5°	1261.7	1573.5	1940.9	2010.7	1976.5
70°	1056.6	1372.8	1710.3	1745.9	1714.5
72.5°	875.8	1181.9	1476.7	1506.6	1483.8
75°	696.3	999.7	1261.7	1294.4	1281.6
77.5°	528.3	823.1	1063.7	1106.5	1109.3
80°	380.2	662.2	891.4	958.4	966.9
82.5°	250.6	514.1	747.6	833.1	845.9
85°	145.3	383.1	632.3	719.1	731.9
87.5°	62.7	276.3	508.4	586.7	602.4
90°	0.0	149.5	361.7	455.7	474.2
92.5°	4.3	123.9	310.4	395.9	411.5
95°	7.1	101.1	270.6	344.6	357.4
97.5°	8.5	85.4	235.0	300.5	313.3
100°	8.5	74.0	203.6	263.4	274.8
102.5°	8.5	65.5	178.0	230.7	240.7
105°	10.0	58.4	156.6	205.1	213.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.4	38.4	108.2	145.3	150.9
115°	11.4	32.8	96.8	129.6	135.3
117.5°	12.8	28.5	85.4	116.8	121.0
120°	12.8	24.2	75.5	104.0	109.7
122.5°	12.8	19.9	66.9	94.0	98.3
125°	11.4	15.7	58.4	84.0	88.3
127.5°	10.0	12.8	49.8	75.5	79.7
130°	10.0	11.4	42.7	66.9	71.2
132.5°	10.0	12.8	35.6	58.4	64.1
135°	10.0	12.8	29.9	51.3	57.0
137.5°	10.0	12.8	24.2	44.1	49.8
140°	11.4	12.8	19.9	37.0	42.7
142.5°	12.8	12.8	15.7	31.3	35.6
145°	14.2	12.8	14.2	25.6	29.9
147.5°	14.2	14.2	14.2	19.9	24.2
150°	14.2	15.7	14.2	15.7	19.9
152.5°	14.2	15.7	14.2	12.8	15.7
155°	14.2	15.7	14.2	12.8	14.2
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°	10.0	51.3	138.1	182.3	189.4
110°	10.0	45.6	122.5	162.3	169.5



(END OF REPORT)