

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: P829935

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-W-UNV-L730-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

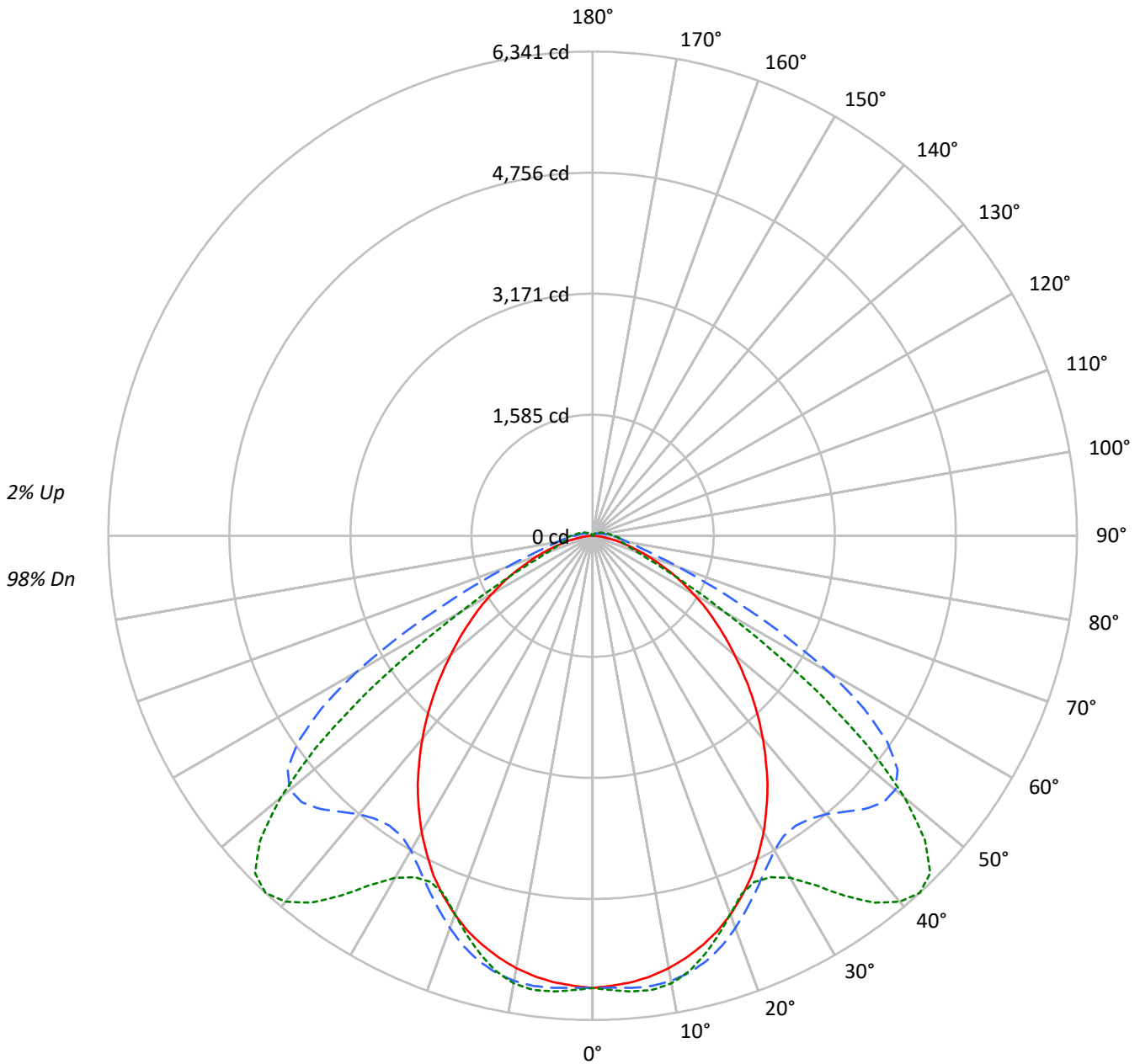
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17734.0 lumens
Efficiency: N/A
Efficacy: 172.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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									
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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10116	10116	10116
5°	10022	10102	10182
10°	9896	10087	10144
15°	9703	9920	9771
20°	9439	9579	9244
25°	9085	9166	9010
30°	8614	8859	9640
35°	8077	9023	11210
40°	7454	9772	12869
45°	6802	11084	13724
50°	6123	12256	12654
55°	5484	12241	9563
60°	4834	10355	5767
65°	4147	7150	3432
70°	3370	4622	2418
75°	2564	3311	2161
80°	1840	2907	2294
85°	1248	3193	3190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	3.2
10°-20°	1602.7	9.0
20°-30°	2345.3	13.2
30°-40°	3045.9	17.2
40°-50°	3719.4	21.0
50°-60°	3275.5	18.5
60°-70°	1706.9	9.6
70°-80°	732.0	4.1
80°-90°	351.5	2.0
90°-100°	165.2	0.9
100°-110°	102.6	0.6
110°-120°	60.7	0.3
120°-130°	33.0	0.2
130°-140°	16.6	0.1
140°-150°	8.0	0.0
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4514.0	25.5
0°-40°	7559.9	42.6
0°-60°	14554.8	82.1
0°-90°	17345.2	97.8
90°-120°	328.5	1.9
90°-150°	386.0	2.2
90°-180°	389.0	2.2
0°-180°	17734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5923	5923	5923	5923	5923	
5°	5868	5913	5945	5997	5991	556
15°	5552	5708	5763	5720	5674	1563
25°	4920	5183	5095	4999	5004	2258
35°	3993	4415	4636	5407	5753	2489
45°	2940	3699	5056	6122	6250	2267
55°	1958	3241	4709	4129	3670	1757
65°	1123	2245	2156	1199	1031	1111
75°	452	1050	693	474	450	493
85°	96	374	353	345	349	107
90°	1	136	233	266	272	7
95°	3	79	185	217	224	2
105°	5	45	120	144	147	5
115°	8	26	74	91	93	8
125°	9	13	43	56	58	8
135°	8	8	20	34	36	6
145°	10	8	9	17	19	6
155°	10	10	8	8	8	3
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-W-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5922.8	5922.8	5922.8	5922.8	5922.8
2.5°	5897.3	5922.8	5924.1	5959.9	5956.1
5°	5867.9	5912.6	5944.6	5996.9	5990.6
7.5°	5819.3	5889.6	5945.8	6003.3	5998.2
10°	5750.3	5846.2	5920.3	5967.6	5952.2
12.5°	5660.9	5787.4	5860.2	5870.4	5841.0
15°	5552.3	5708.2	5763.1	5719.7	5673.7
17.5°	5429.6	5612.3	5631.5	5536.9	5479.4
20°	5276.2	5484.5	5465.4	5335.0	5271.1
22.5°	5106.3	5344.0	5282.6	5145.9	5084.6
25°	4919.7	5183.0	5094.8	4998.9	5004.1
27.5°	4701.2	5000.2	4914.6	4958.1	5039.8
30°	4478.9	4808.5	4756.2	5009.2	5170.2
32.5°	4234.8	4611.8	4659.0	5158.7	5421.9
35°	3993.3	4415.0	4636.0	5406.6	5752.9
37.5°	3726.2	4215.6	4673.1	5692.8	6055.7
40°	3466.8	4021.4	4757.4	5949.7	6256.4
42.5°	3202.3	3847.6	4899.3	6101.7	6340.7
45°	2940.3	3699.4	5056.5	6122.2	6250.0
47.5°	2678.4	3574.1	5165.1	5959.9	5901.1
50°	2425.4	3463.0	5172.7	5570.1	5329.9
52.5°	2189.0	3360.7	5032.2	4949.1	4576.0
55°	1957.7	3240.6	4708.9	4128.7	3670.0
57.5°	1746.8	3074.5	4210.5	3247.0	2746.1
60°	1523.2	2849.6	3566.5	2375.5	1980.7
62.5°	1317.5	2569.8	2844.5	1653.5	1423.5
65°	1123.2	2245.2	2155.7	1198.6	1031.2
67.5°	917.5	1909.1	1590.9	874.0	766.7
70°	756.5	1597.3	1184.6	679.8	617.2
72.5°	591.6	1300.9	885.5	552.0	517.5
75°	452.4	1050.4	692.6	474.1	449.8
77.5°	333.5	830.6	557.1	419.1	396.1
80°	233.8	654.3	466.4	374.4	365.5
82.5°	157.2	506.0	397.4	356.5	357.8
85°	95.8	374.4	352.7	345.0	348.9
87.5°	46.0	265.8	302.9	314.4	318.2
90°	1.3	135.5	232.6	265.8	272.2
92.5°	0.0	103.5	204.5	237.7	244.1
95°	2.6	79.2	185.3	217.2	223.6
97.5°	2.6	65.2	166.1	199.3	203.2
100°	3.8	56.2	148.2	180.2	184.0
102.5°	3.8	49.8	132.9	161.0	163.6
105°	5.1	44.7	120.1	144.4	147.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	30.7	84.3	102.2	104.8
115°	7.7	25.6	74.1	90.7	93.3
117.5°	8.9	23.0	65.2	80.5	81.8
120°	8.9	19.2	56.2	71.6	72.8
122.5°	8.9	15.3	49.8	63.9	65.2
125°	8.9	12.8	43.4	56.2	57.5
127.5°	7.7	8.9	37.1	49.8	51.1
130°	7.7	7.7	30.7	43.4	46.0
132.5°	7.7	7.7	25.6	38.3	40.9
135°	7.7	7.7	20.4	34.5	35.8
137.5°	7.7	7.7	16.6	29.4	31.9
140°	7.7	7.7	12.8	25.6	26.8
142.5°	8.9	7.7	11.5	21.7	23.0
145°	10.2	7.7	8.9	16.6	19.2
147.5°	10.2	8.9	8.9	14.1	15.3
150°	10.2	10.2	7.7	10.2	12.8
152.5°	10.2	10.2	7.7	7.7	10.2
155°	10.2	10.2	7.7	7.7	7.7
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°	6.4	39.6	107.3	129.1	<i>131.6</i>
110°	6.4	34.5	94.6	115.0	<i>117.6</i>



(END OF REPORT)