

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: P829907

Luminaire Tested: **OHBL-18HE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829907
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-L930-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

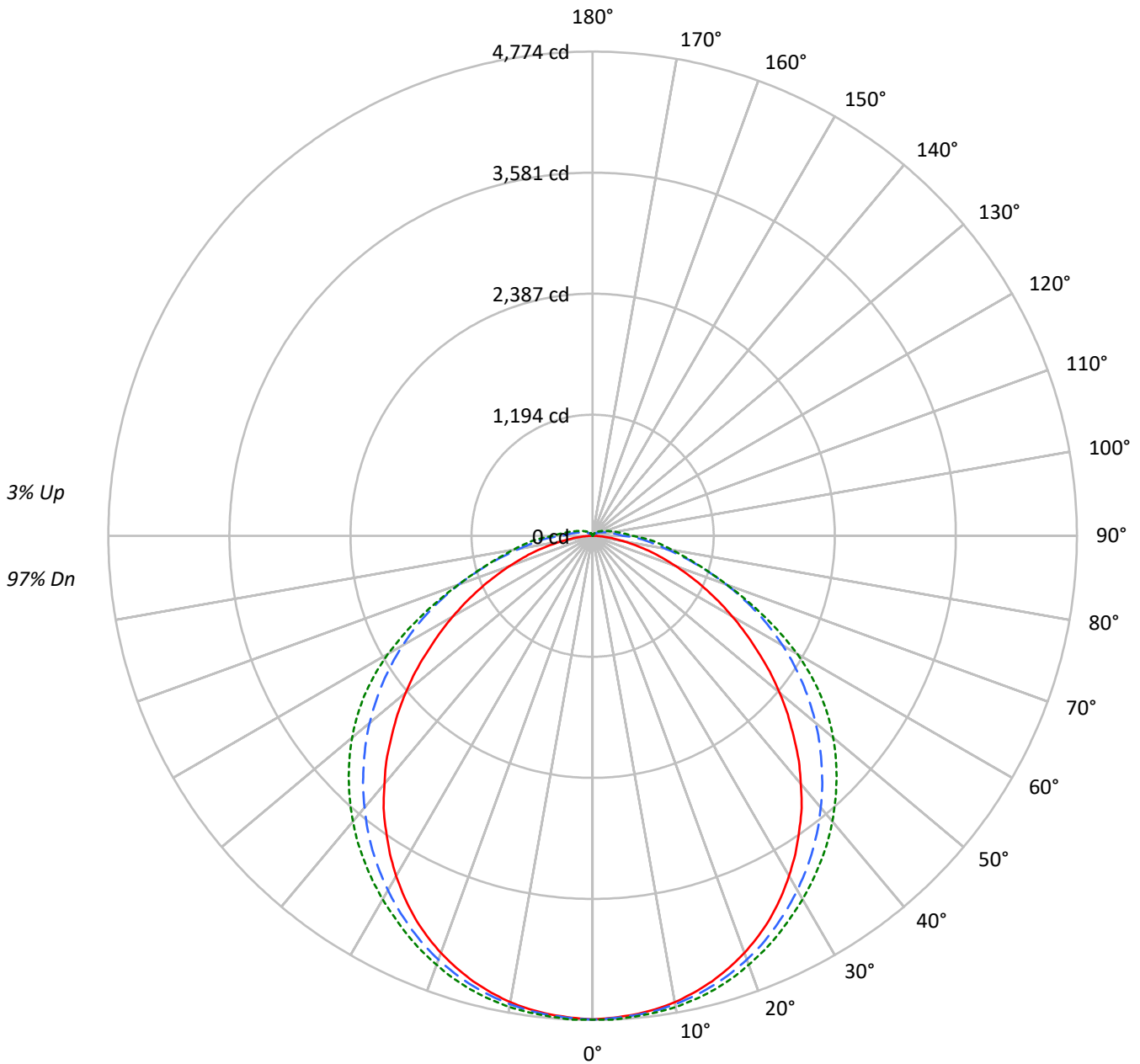
Lumens per Lamp: N/A
Luminaire Lumens: 14275.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P829907

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L930-CD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8147	8147	8147
5°	8095	8066	8089
10°	8038	7991	8041
15°	7948	7902	7981
20°	7829	7795	7894
25°	7670	7661	7806
30°	7449	7517	7718
35°	7182	7363	7641
40°	6862	7186	7564
45°	6484	6993	7467
50°	6071	6799	7350
55°	5562	6561	7157
60°	5042	6281	6780
65°	4474	5924	6169
70°	3858	5470	5506
75°	3235	4945	5049
80°	2453	4555	4974
85°	1552	4692	5486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.0	3.2
10°-20°	1296.6	9.1
20°-30°	1960.9	13.7
30°-40°	2354.1	16.5
40°-50°	2431.4	17.0
50°-60°	2187.5	15.3
60°-70°	1647.8	11.5
70°-80°	995.0	7.0
80°-90°	486.6	3.4
90°-100°	204.8	1.4
100°-110°	116.9	0.8
110°-120°	68.6	0.5
120°-130°	38.8	0.3
130°-140°	20.4	0.1
140°-150°	9.9	0.1
150°-160°	3.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3709.4	26.0
0°-40°	6063.5	42.5
0°-60°	10682.3	74.8
0°-90°	13811.7	96.8
90°-120°	390.4	2.7
90°-150°	459.6	3.2
90°-180°	463.0	3.2
0°-180°	14275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4770	4770	4770	4770	4770	
5°	4739	4752	4746	4765	4759	450
15°	4548	4570	4591	4630	4634	1282
25°	4153	4199	4258	4325	4336	1910
35°	3551	3634	3783	3898	3921	2220
45°	2803	2944	3190	3364	3400	2164
55°	1986	2191	2524	2714	2747	1780
65°	1212	1459	1786	1875	1854	1204
75°	571	820	1034	1061	1051	609
85°	119	314	518	590	600	138
90°	0	123	296	374	389	8
95°	6	83	222	282	293	5
105°	8	48	128	168	175	8
115°	9	27	79	106	111	10
125°	9	13	48	69	72	8
135°	8	10	24	42	47	6
145°	12	10	12	21	24	7
155°	12	13	12	10	12	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°	4769.7	4769.7	4769.7	4769.7	4769.7
2.5°	4755.7	4767.4	4760.4	4775.6	4774.4
5°	4739.4	4752.2	4746.4	4765.1	4759.2
7.5°	4711.4	4725.4	4724.2	4745.2	4742.9
10°	4670.5	4685.7	4690.4	4718.4	4718.4
12.5°	4614.5	4634.3	4646.0	4679.8	4681.0
15°	4547.9	4570.1	4591.1	4629.7	4634.3
17.5°	4467.4	4495.4	4524.6	4569.0	4574.8
20°	4376.3	4407.9	4447.5	4494.2	4501.2
22.5°	4271.3	4308.6	4360.0	4414.9	4423.0
25°	4153.4	4198.9	4258.4	4325.0	4335.5
27.5°	4019.1	4071.7	4152.2	4226.9	4236.3
30°	3873.2	3935.1	4035.5	4124.2	4139.4
32.5°	3719.1	3790.3	3914.1	4013.3	4034.3
35°	3551.0	3633.9	3783.3	3897.7	3921.1
37.5°	3385.3	3476.3	3645.6	3776.3	3804.3
40°	3191.5	3304.7	3498.5	3643.3	3677.1
42.5°	3009.4	3132.0	3351.4	3509.0	3541.7
45°	2802.8	2944.0	3190.3	3364.3	3400.4
47.5°	2609.0	2761.9	3035.1	3214.8	3252.2
50°	2404.7	2572.8	2869.3	3057.3	3095.8
52.5°	2200.4	2381.4	2697.7	2892.7	2928.8
55°	1985.6	2191.1	2523.8	2714.1	2746.7
57.5°	1786.0	2003.1	2345.2	2526.1	2546.0
60°	1588.7	1814.0	2163.1	2321.8	2328.8
62.5°	1396.1	1633.1	1976.3	2102.4	2093.0
65°	1211.7	1459.2	1786.0	1874.7	1853.7
67.5°	1034.3	1289.9	1591.1	1648.3	1620.3
70°	866.2	1125.3	1402.0	1431.2	1405.5
72.5°	717.9	968.9	1210.5	1235.0	1216.4
75°	570.8	819.5	1034.3	1061.1	1050.6
77.5°	433.1	674.7	872.0	907.0	909.4
80°	311.7	542.8	730.8	785.6	792.6
82.5°	205.5	421.4	612.9	682.9	693.4
85°	119.1	314.0	518.3	589.5	600.0
87.5°	51.4	226.5	416.7	480.9	493.8
90°	0.0	122.6	296.5	373.5	388.7
92.5°	3.5	101.6	254.5	324.5	337.4
95°	5.8	82.9	221.8	282.5	293.0
97.5°	7.0	70.0	192.6	246.3	256.8
100°	7.0	60.7	166.9	216.0	225.3
102.5°	7.0	53.7	145.9	189.1	197.3
105°	8.2	47.9	128.4	168.1	175.1



TEST NUMBER: P829907

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.3	31.5	88.7	119.1	123.7
115°	9.3	26.8	79.4	106.2	110.9
117.5°	10.5	23.3	70.0	95.7	99.2
120°	10.5	19.8	61.9	85.2	89.9
122.5°	10.5	16.3	54.9	77.0	80.5
125°	9.3	12.8	47.9	68.9	72.4
127.5°	8.2	10.5	40.9	61.9	65.4
130°	8.2	9.3	35.0	54.9	58.4
132.5°	8.2	10.5	29.2	47.9	52.5
135°	8.2	10.5	24.5	42.0	46.7
137.5°	8.2	10.5	19.8	36.2	40.9
140°	9.3	10.5	16.3	30.4	35.0
142.5°	10.5	10.5	12.8	25.7	29.2
145°	11.7	10.5	11.7	21.0	24.5
147.5°	11.7	11.7	11.7	16.3	19.8
150°	11.7	12.8	11.7	12.8	16.3
152.5°	11.7	12.8	11.7	10.5	12.8
155°	11.7	12.8	11.7	10.5	11.7
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°	8.2	42.0	113.2	149.4	155.3
110°	8.2	37.4	100.4	133.1	138.9



(END OF REPORT)