

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: P829930

Luminaire Tested: **OHBL-18HE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-NL-UNV-L850-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

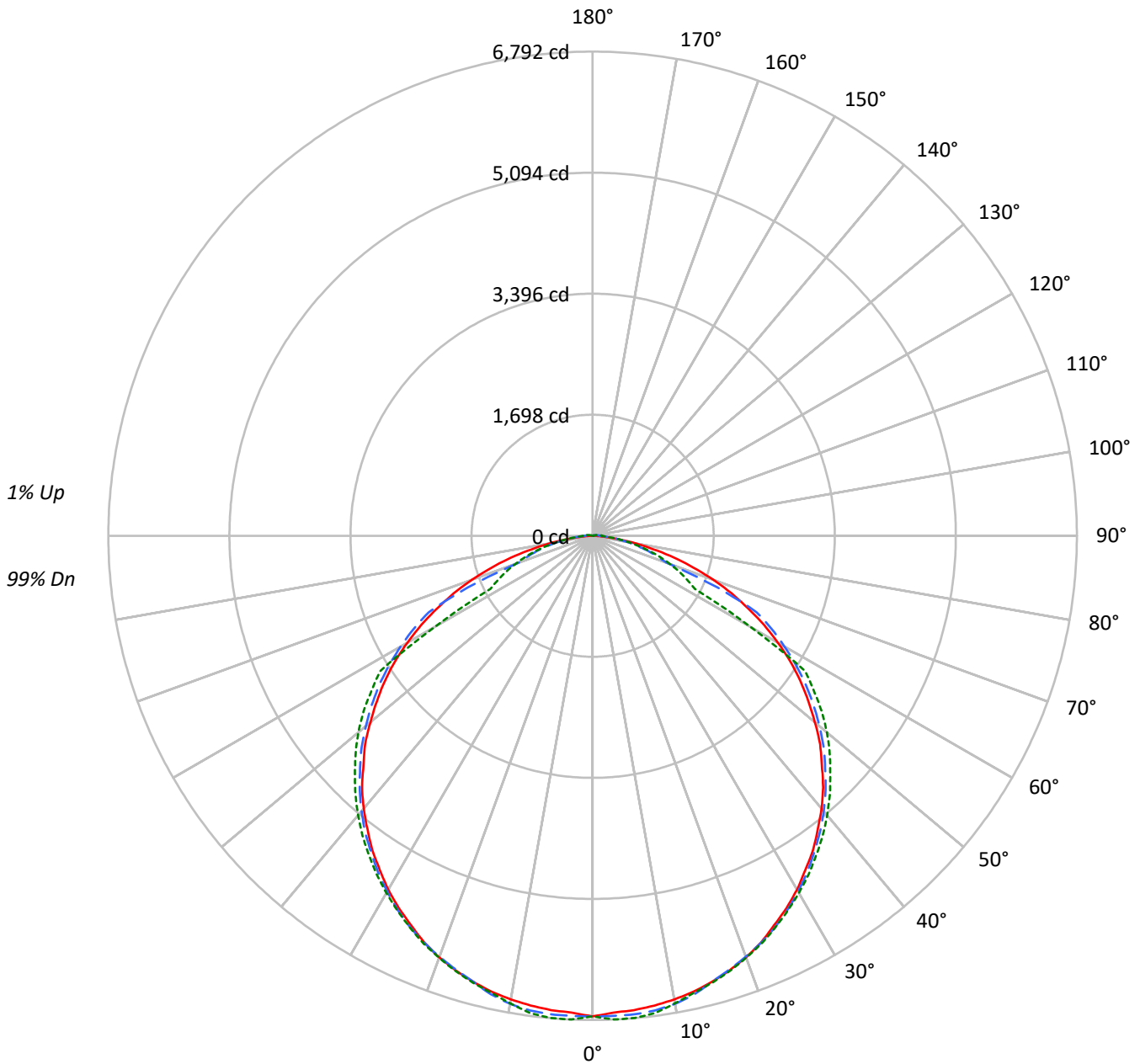
Lumens per Lamp: N/A
Luminaire Lumens: 18929.0 lumens
Efficiency: N/A
Efficacy: 183.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11515	11515	11515
5°	11452	11555	11642
10°	11455	11564	11549
15°	11453	11451	11476
20°	11437	11420	11448
25°	11359	11417	11426
30°	11307	11365	11409
35°	11233	11295	11401
40°	11136	11242	11408
45°	10976	11141	11384
50°	10810	11030	11395
55°	10603	10878	11269
60°	10248	10612	8774
65°	9696	10260	5905
70°	8968	5447	5730
75°	7823	5176	5473
80°	6016	4748	5015
85°	3036	4799	4913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.5	3.4
10°-20°	1834.0	9.7
20°-30°	2790.5	14.7
30°-40°	3392.9	17.9
40°-50°	3567.5	18.8
50°-60°	3257.5	17.2
60°-70°	2088.2	11.0
70°-80°	986.5	5.2
80°-90°	273.5	1.4
90°-100°	72.4	0.4
100°-110°	19.8	0.1
110°-120°	5.5	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5265.0	27.8
0°-40°	8658.0	45.7
0°-60°	15483.0	81.8
0°-90°	18831.2	99.5
90°-120°	97.8	0.5
90°-150°	97.8	0.5
90°-180°	98.0	0.5
0°-180°	18929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6742	6742	6742	6742	6742	
5°	6679	6705	6740	6776	6790	635
15°	6477	6526	6476	6485	6490	1829
25°	6028	6037	6058	6068	6063	2781
35°	5388	5356	5417	5483	5468	3367
45°	4544	4536	4612	4721	4713	3512
55°	3561	3534	3653	3775	3784	3176
65°	2399	2399	2539	1456	1461	2379
75°	1185	1208	784	826	829	1250
85°	155	196	245	265	251	229
90°	0	66	109	129	127	7
95°	4	34	78	105	105	2
105°	6	13	19	19	18	6
115°	6	8	12	8	1	4
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6742.0	6742.0	6742.0	6742.0	6742.0
2.5°	6694.7	6717.2	6742.0	6774.0	6791.6
5°	6679.3	6705.3	6739.6	6776.3	6790.5
7.5°	6646.2	6682.8	6716.0	6742.0	6750.3
10°	6604.7	6648.6	6667.5	6665.1	6659.2
12.5°	6549.1	6595.4	6589.5	6562.2	6566.9
15°	6477.0	6525.5	6475.9	6485.3	6490.0
17.5°	6391.8	6439.2	6381.2	6400.1	6401.3
20°	6292.5	6327.9	6283.0	6298.4	6298.4
22.5°	6173.0	6197.8	6178.9	6189.5	6191.9
25°	6027.5	6036.9	6058.2	6067.7	6062.9
27.5°	5888.0	5876.1	5917.5	5939.9	5928.0
30°	5732.9	5714.0	5762.5	5799.1	5785.0
32.5°	5555.4	5543.6	5599.3	5643.0	5634.7
35°	5387.5	5355.5	5417.0	5483.3	5467.9
37.5°	5188.7	5169.8	5239.5	5309.4	5301.2
40°	4994.7	4962.7	5042.0	5124.8	5116.5
42.5°	4786.5	4748.6	4835.0	4934.4	4924.9
45°	4543.9	4535.6	4612.5	4721.4	4713.1
47.5°	4328.7	4287.3	4394.9	4500.2	4509.7
50°	4068.3	4053.1	4151.2	4279.0	4288.4
52.5°	3814.1	3803.4	3906.3	4035.3	4051.8
55°	3560.8	3533.6	3653.1	3775.0	3784.5
57.5°	3290.0	3261.6	3383.5	3516.0	3536.0
60°	3000.1	2972.9	3106.5	3229.7	2568.4
62.5°	2710.3	2691.3	2831.0	2005.2	1616.1
65°	2399.1	2399.1	2538.7	1456.3	1461.0
67.5°	2108.2	2089.3	1892.9	1308.3	1308.3
70°	1795.8	1803.0	1090.7	1146.4	1147.5
72.5°	1482.3	1508.4	941.7	986.6	989.0
75°	1185.4	1207.9	784.3	825.8	829.3
77.5°	870.7	669.6	630.5	662.6	663.7
80°	611.6	422.3	482.7	513.4	509.9
82.5°	357.2	295.7	353.7	376.2	375.0
85°	154.9	196.4	244.9	265.0	250.7
87.5°	49.6	121.9	152.6	164.5	163.2
90°	0.0	66.3	108.8	128.9	126.6
92.5°	0.0	52.0	94.7	118.4	119.5
95°	3.5	34.3	78.2	105.3	105.3
97.5°	2.4	24.8	55.6	82.8	85.2
100°	2.4	20.0	36.7	59.1	60.4
102.5°	5.9	16.5	22.4	37.8	39.1
105°	5.9	13.0	18.9	18.9	17.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.1	9.5	13.0	9.5	1.1
115°	5.9	8.3	11.8	8.3	1.1
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	5.9	11.8	16.5	10.6	3.5
110°	7.1	10.6	14.2	9.5	1.1



(END OF REPORT)