

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: P829942

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829942
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-L850-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

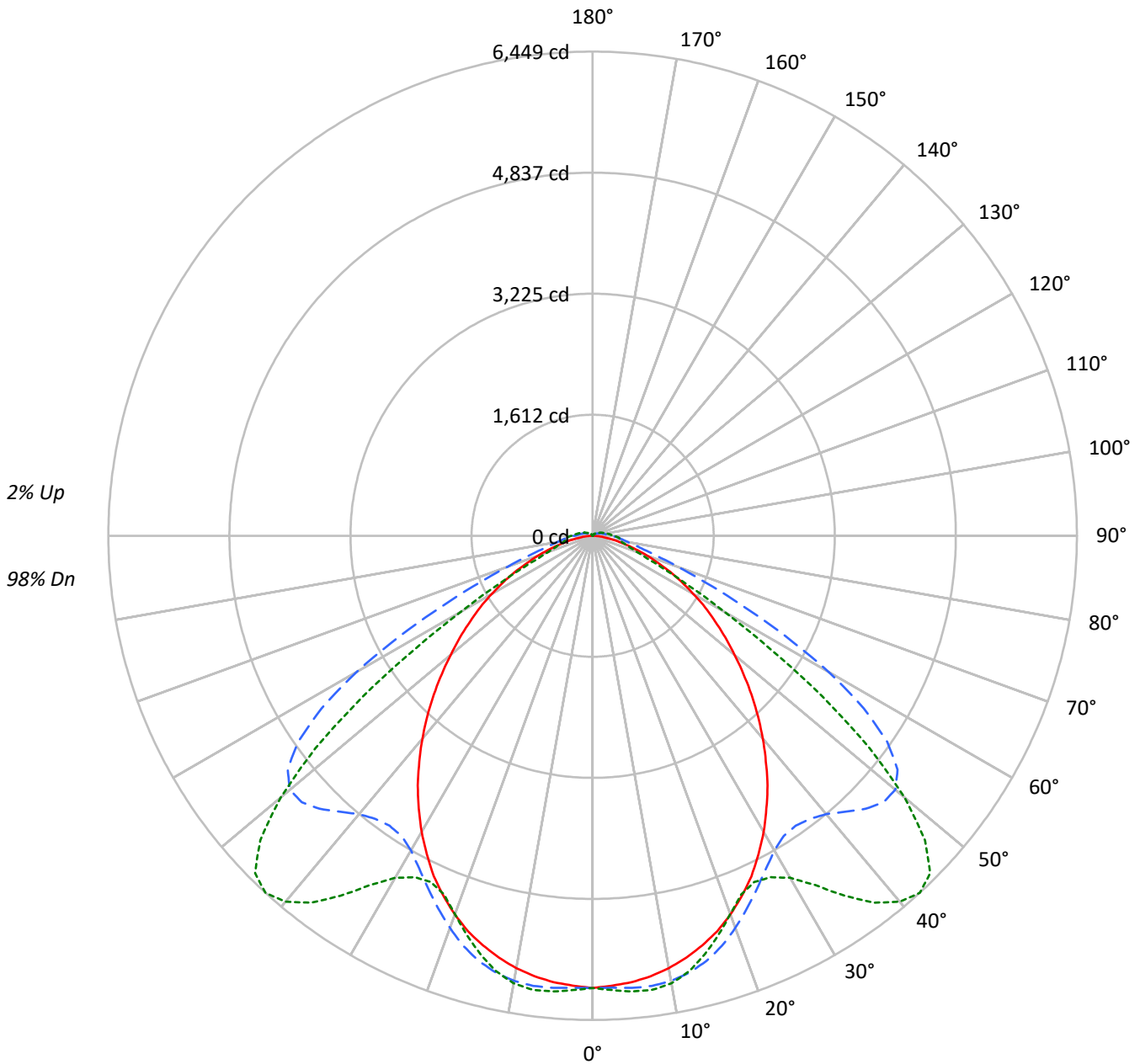
Lumens per Lamp: N/A
Luminaire Lumens: 18036.0 lumens
Efficiency: N/A
Efficacy: 175.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	10288	10288	10288
5°	10193	10274	10355
10°	10065	10258	10317
15°	9868	10089	9937
20°	9599	9742	9402
25°	9239	9322	9164
30°	8761	9010	9804
35°	8215	9176	11401
40°	7581	9938	13088
45°	6918	11273	13958
50°	6227	12465	12870
55°	5578	12449	9725
60°	4916	10532	5865
65°	4218	7271	3490
70°	3427	4700	2459
75°	2607	3368	2198
80°	1871	2957	2333
85°	1270	3247	3244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.6	3.2
10°-20°	1630.0	9.0
20°-30°	2385.3	13.2
30°-40°	3097.8	17.2
40°-50°	3782.7	21.0
50°-60°	3331.3	18.5
60°-70°	1735.9	9.6
70°-80°	744.4	4.1
80°-90°	357.5	2.0
90°-100°	168.0	0.9
100°-110°	104.4	0.6
110°-120°	61.7	0.3
120°-130°	33.6	0.2
130°-140°	16.8	0.1
140°-150°	8.1	0.0
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4590.9	25.5
0°-40°	7688.7	42.6
0°-60°	14802.7	82.1
0°-90°	17640.6	97.8
90°-120°	334.1	1.9
90°-150°	392.6	2.2
90°-180°	395.0	2.2
0°-180°	18036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6024	6024	6024	6024	6024	
5°	5968	6013	6046	6099	6093	566
15°	5647	5805	5861	5817	5770	1590
25°	5004	5271	5182	5084	5089	2296
35°	4061	4490	4715	5499	5851	2531
45°	2990	3762	5143	6226	6356	2306
55°	1991	3296	4789	4199	3732	1787
65°	1142	2283	2192	1219	1049	1130
75°	460	1068	704	482	458	502
85°	98	381	359	351	355	109
90°	1	138	236	270	277	7
95°	3	81	188	221	227	2
105°	5	46	122	147	150	5
115°	8	26	75	92	95	8
125°	9	13	44	57	58	8
135°	8	8	21	35	36	6
145°	10	8	9	17	20	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6023.7	6023.7	6023.7	6023.7	6023.7
2.5°	5997.7	6023.7	6025.0	6061.4	6057.5
5°	5967.8	6013.3	6045.8	6099.1	6092.6
7.5°	5918.4	5989.9	6047.1	6105.6	6100.4
10°	5848.2	5945.7	6021.1	6069.2	6053.6
12.5°	5757.3	5885.9	5960.0	5970.4	5940.5
15°	5646.8	5805.4	5861.2	5817.1	5770.3
17.5°	5522.0	5707.9	5727.4	5631.2	5572.7
20°	5366.1	5577.9	5558.4	5425.9	5360.9
22.5°	5193.2	5435.0	5372.6	5233.5	5171.2
25°	5003.5	5271.2	5181.5	5084.1	5089.3
27.5°	4781.3	5085.4	4998.3	5042.5	5125.7
30°	4555.1	4890.4	4837.2	5094.5	5258.2
32.5°	4306.9	4690.3	4738.4	5246.5	5514.2
35°	4061.3	4490.2	4715.0	5498.7	5850.8
37.5°	3789.7	4287.4	4752.7	5789.8	6158.9
40°	3525.8	4089.9	4838.4	6051.0	6362.9
42.5°	3256.8	3913.1	4982.7	6205.6	6448.7
45°	2990.4	3762.4	5142.6	6226.4	6356.4
47.5°	2724.0	3635.0	5253.0	6061.4	6001.6
50°	2466.7	3521.9	5260.8	5665.0	5420.7
52.5°	2226.2	3418.0	5117.9	5033.4	4653.9
55°	1991.0	3295.8	4789.1	4199.0	3732.5
57.5°	1776.6	3126.9	4282.2	3302.3	2792.9
60°	1549.1	2898.1	3627.2	2416.0	2014.4
62.5°	1339.9	2613.5	2892.9	1681.7	1447.8
65°	1142.4	2283.4	2192.4	1219.0	1048.8
67.5°	933.1	1941.6	1618.0	888.9	779.8
70°	769.4	1624.5	1204.7	691.4	627.7
72.5°	601.7	1323.0	900.6	561.4	526.3
75°	460.1	1068.3	704.4	482.2	457.5
77.5°	339.2	844.7	566.6	426.3	402.9
80°	237.8	665.4	474.4	380.8	371.7
82.5°	159.9	514.6	404.2	362.6	363.9
85°	97.5	380.8	358.7	350.9	354.8
87.5°	46.8	270.3	308.0	319.7	323.6
90°	1.3	137.8	236.5	270.3	276.8
92.5°	0.0	105.3	207.9	241.7	248.2
95°	2.6	80.6	188.4	220.9	227.4
97.5°	2.6	66.3	168.9	202.7	206.6
100°	3.9	57.2	150.8	183.2	187.1
102.5°	3.9	50.7	135.2	163.8	166.4
105°	5.2	45.5	122.2	146.9	149.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	31.2	85.8	104.0	106.6
115°	7.8	26.0	75.4	92.3	94.9
117.5°	9.1	23.4	66.3	81.9	83.2
120°	9.1	19.5	57.2	72.8	74.1
122.5°	9.1	15.6	50.7	65.0	66.3
125°	9.1	13.0	44.2	57.2	58.5
127.5°	7.8	9.1	37.7	50.7	52.0
130°	7.8	7.8	31.2	44.2	46.8
132.5°	7.8	7.8	26.0	39.0	41.6
135°	7.8	7.8	20.8	35.1	36.4
137.5°	7.8	7.8	16.9	29.9	32.5
140°	7.8	7.8	13.0	26.0	27.3
142.5°	9.1	7.8	11.7	22.1	23.4
145°	10.4	7.8	9.1	16.9	19.5
147.5°	10.4	9.1	9.1	14.3	15.6
150°	10.4	10.4	7.8	10.4	13.0
152.5°	10.4	10.4	7.8	7.8	10.4
155°	10.4	10.4	7.8	7.8	7.8
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°	6.5	40.3	109.2	131.3	133.9
110°	6.5	35.1	96.2	117.0	119.6



(END OF REPORT)