

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: P829879

Luminaire Tested: **OHBL-18HE-A-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-A-UNV-L830-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

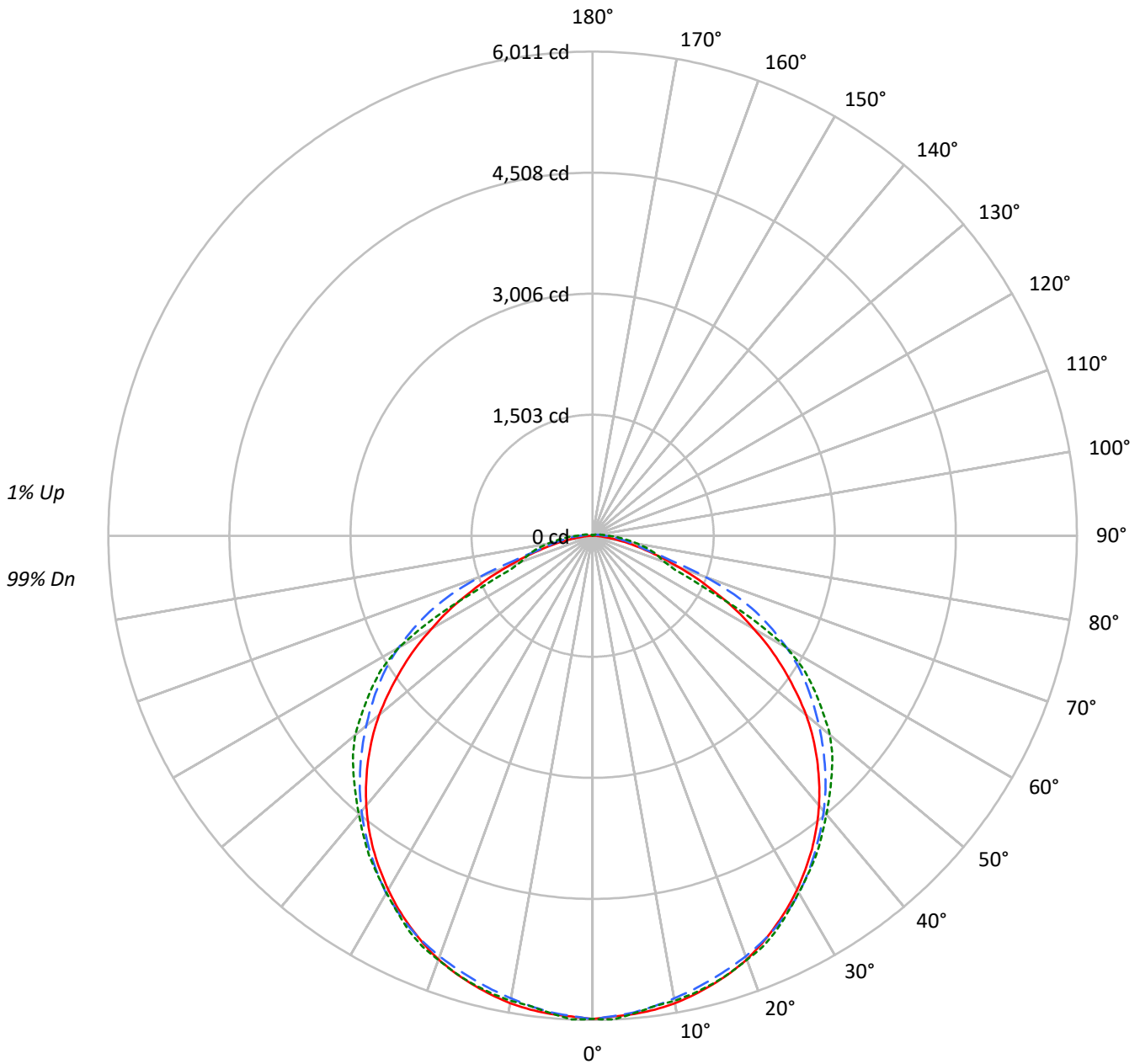
Lumens per Lamp: N/A
Luminaire Lumens: 16955.0 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10246	10246	10246
5°	10179	10092	10112
10°	10141	9935	9993
15°	10077	9816	9920
20°	10013	9740	9825
25°	9892	9662	9731
30°	9761	9543	9540
35°	9603	9357	9431
40°	9399	9164	9285
45°	9116	8942	9214
50°	8732	8689	9131
55°	8123	8439	8778
60°	7325	8076	8101
65°	6284	7410	5123
70°	5061	5773	3703
75°	3794	3417	3743
80°	2641	2828	3549
85°	1504	2567	3283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.6	3.3
10°-20°	1621.9	9.6
20°-30°	2477.2	14.6
30°-40°	3005.7	17.7
40°-50°	3150.3	18.6
50°-60°	2854.6	16.8
60°-70°	1913.9	11.3
70°-80°	859.4	5.1
80°-90°	311.9	1.8
90°-100°	93.9	0.6
100°-110°	44.3	0.3
110°-120°	22.2	0.1
120°-130°	12.2	0.1
130°-140°	8.4	0.0
140°-150°	5.7	0.0
150°-160°	4.2	0.0
160°-170°	2.7	0.0
170°-180°	0.9	0.0
0°-30°	4664.8	27.5
0°-40°	7670.5	45.2
0°-60°	13675.3	80.7
0°-90°	16760.5	98.9
90°-120°	160.4	0.9
90°-150°	186.7	1.1
90°-180°	194.0	1.1
0°-180°	16955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5999	5999	5999	5999	5999	
5°	5960	5980	5939	5957	5949	567
15°	5766	5744	5703	5753	5760	1628
25°	5357	5333	5371	5420	5404	2469
35°	4748	4759	4808	4859	4840	2968
45°	3940	4005	4079	4183	4196	3035
55°	2900	3039	3246	3377	3369	2588
65°	1702	1968	2234	1886	1540	1696
75°	670	971	715	731	779	732
85°	115	221	284	343	359	141
90°	1	74	147	184	193	7
95°	1	46	101	122	126	1
105°	4	20	49	60	62	4
115°	7	10	25	32	34	6
125°	6	7	16	18	19	6
135°	8	9	10	14	15	6
145°	8	9	9	10	10	5
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



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CATALOG NUMBER: OHBL-18HE-A-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5998.7	5998.7	5998.7	5998.7	5998.7
2.5°	5974.4	5999.6	5968.3	6002.2	6010.8
5°	5959.7	5980.5	5938.8	5957.1	5949.3
7.5°	5932.8	5939.7	5890.3	5905.0	5889.4
10°	5892.9	5889.4	5831.3	5859.9	5863.4
12.5°	5833.9	5823.5	5771.4	5814.8	5815.7
15°	5766.2	5743.7	5702.9	5753.2	5760.2
17.5°	5688.2	5658.7	5631.8	5696.9	5686.4
20°	5597.1	5562.4	5557.2	5628.3	5602.3
22.5°	5484.3	5457.5	5469.6	5537.3	5520.8
25°	5356.8	5333.4	5370.7	5420.2	5404.5
27.5°	5222.4	5208.5	5251.0	5289.2	5258.8
30°	5075.0	5067.1	5123.5	5154.7	5116.6
32.5°	4914.5	4917.1	4970.9	5013.4	4977.8
35°	4748.0	4759.2	4807.8	4859.0	4839.9
37.5°	4564.9	4590.1	4638.7	4696.8	4676.8
40°	4371.5	4407.9	4461.7	4532.0	4513.8
42.5°	4162.5	4208.5	4277.8	4355.9	4354.2
45°	3940.4	4004.6	4079.2	4183.3	4196.3
47.5°	3709.7	3781.7	3876.3	4015.0	4035.0
50°	3459.0	3549.3	3667.2	3833.8	3845.9
52.5°	3179.8	3302.9	3459.0	3618.6	3603.9
55°	2899.6	3039.2	3246.5	3376.7	3368.8
57.5°	2620.3	2777.3	3028.8	3121.6	3120.8
60°	2308.1	2506.7	2781.6	2851.9	2782.5
62.5°	2019.2	2232.6	2518.0	2466.8	2229.1
65°	1701.8	1968.1	2234.3	1885.7	1539.6
67.5°	1419.9	1697.4	1897.8	1291.5	1105.9
70°	1136.2	1442.4	1479.7	958.4	945.4
72.5°	884.7	1210.8	1020.9	820.5	862.2
75°	669.6	971.4	714.7	731.2	778.9
77.5°	488.3	745.9	556.0	641.0	680.0
80°	335.7	528.2	453.6	538.6	565.5
82.5°	210.8	348.7	363.4	433.7	461.4
85°	115.4	221.2	283.6	342.6	359.1
87.5°	47.7	133.6	216.8	264.5	278.4
90°	0.9	73.7	146.6	183.9	192.6
92.5°	0.9	56.4	119.7	148.3	154.4
95°	0.9	46.0	100.6	122.3	125.8
97.5°	1.7	36.4	84.1	101.5	105.0
100°	2.6	30.4	70.3	85.0	87.6
102.5°	3.5	24.3	59.0	71.1	73.7
105°	3.5	19.9	49.4	59.8	62.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.1	12.1	29.5	37.3	39.0
115°	6.9	10.4	25.2	32.1	33.8
117.5°	6.9	8.7	21.7	26.9	28.6
120°	6.9	7.8	19.1	23.4	24.3
122.5°	6.9	6.9	16.5	20.8	21.7
125°	6.1	6.9	15.6	18.2	19.1
127.5°	6.9	6.9	13.9	16.5	17.3
130°	6.9	7.8	12.1	15.6	15.6
132.5°	7.8	8.7	11.3	14.7	14.7
135°	7.8	8.7	9.5	13.9	14.7
137.5°	8.7	8.7	8.7	13.0	13.9
140°	8.7	8.7	7.8	11.3	12.1
142.5°	7.8	8.7	7.8	10.4	11.3
145°	7.8	8.7	8.7	9.5	10.4
147.5°	8.7	8.7	8.7	8.7	9.5
150°	8.7	8.7	8.7	8.7	8.7
152.5°	8.7	8.7	8.7	8.7	8.7
155°	8.7	9.5	9.5	9.5	8.7
157.5°	8.7	9.5	9.5	9.5	9.5
160°	8.7	9.5	9.5	9.5	9.5
162.5°	9.5	9.5	9.5	9.5	9.5
165°	9.5	9.5	9.5	9.5	9.5
167.5°	9.5	10.4	9.5	9.5	9.5
170°	9.5	9.5	9.5	8.7	8.7
172.5°	9.5	9.5	9.5	8.7	8.7
175°	9.5	9.5	8.7	7.8	7.8
177.5°	10.4	9.5	8.7	7.8	6.9
180°	8.7	8.7	8.7	8.7	8.7



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	4.3	16.5	42.5	51.2	52.9
110°	5.2	13.9	35.6	43.4	45.1



(END OF REPORT)