

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: P829880

Luminaire Tested: **OHBL-18HE-A-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829880
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-L835-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

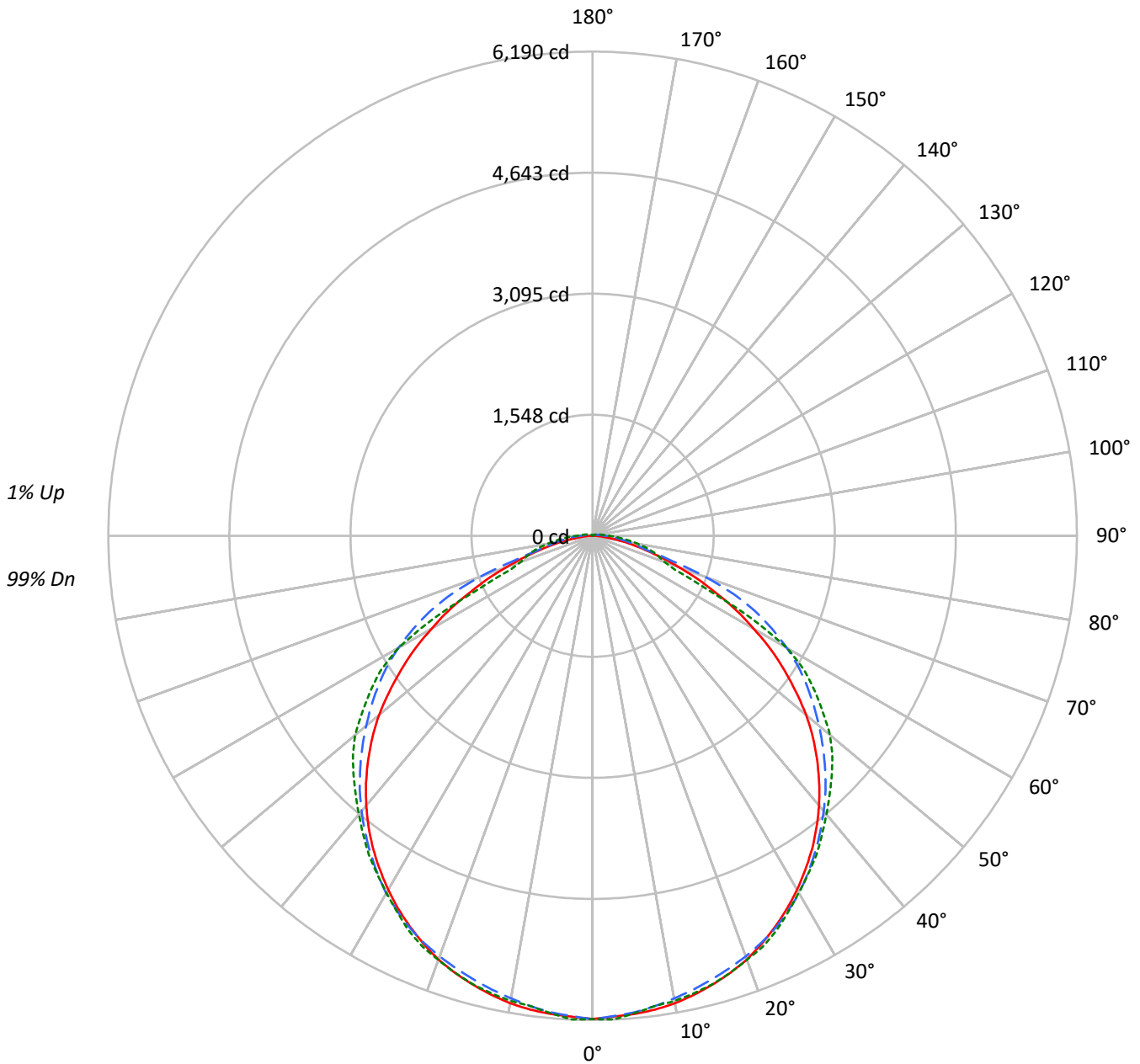
Lumens per Lamp: N/A
Luminaire Lumens: 17460.9 lumens
Efficiency: N/A
Efficacy: 169.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	10551	10551	10551
5°	10482	10393	10413
10°	10444	10231	10291
15°	10378	10109	10216
20°	10311	10030	10118
25°	10187	9951	10022
30°	10052	9828	9825
35°	9890	9636	9712
40°	9680	9438	9562
45°	9388	9209	9489
50°	8993	8949	9403
55°	8365	8691	9040
60°	7543	8318	8343
65°	6471	7632	5276
70°	5212	5946	3814
75°	3908	3519	3854
80°	2720	2912	3655
85°	1548	2644	3381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.5	3.3
10°-20°	1670.3	9.6
20°-30°	2551.1	14.6
30°-40°	3095.4	17.7
40°-50°	3244.3	18.6
50°-60°	2939.8	16.8
60°-70°	1971.0	11.3
70°-80°	885.1	5.1
80°-90°	321.2	1.8
90°-100°	96.7	0.6
100°-110°	45.6	0.3
110°-120°	22.9	0.1
120°-130°	12.6	0.1
130°-140°	8.7	0.0
140°-150°	5.8	0.0
150°-160°	4.3	0.0
160°-170°	2.8	0.0
170°-180°	0.9	0.0
0°-30°	4804.0	27.5
0°-40°	7899.4	45.2
0°-60°	14083.4	80.7
0°-90°	17260.7	98.9
90°-120°	165.1	0.9
90°-150°	192.2	1.1
90°-180°	200.0	1.1
0°-180°	17460.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6178	6178	6178	6178	6178	
5°	6138	6159	6116	6135	6127	584
15°	5938	5915	5873	5925	5932	1677
25°	5517	5493	5531	5582	5566	2543
35°	4890	4901	4951	5004	4984	3056
45°	4058	4124	4201	4308	4322	3126
55°	2986	3130	3343	3477	3469	2665
65°	1753	2027	2301	1942	1586	1746
75°	690	1000	736	753	802	754
85°	119	228	292	353	370	145
90°	1	76	151	189	198	7
95°	1	47	104	126	130	1
105°	4	20	51	62	64	4
115°	7	11	26	33	35	7
125°	6	7	16	19	20	6
135°	8	9	10	14	15	6
145°	8	9	9	10	11	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-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6177.7	6177.7	6177.7	6177.7	6177.7
2.5°	6152.7	6178.6	6146.5	6181.3	6190.2
5°	6137.5	6159.0	6116.1	6134.8	6126.8
7.5°	6109.8	6117.0	6066.1	6081.2	6065.2
10°	6068.7	6065.2	6005.3	6034.8	6038.4
12.5°	6008.0	5997.3	5943.7	5988.3	5989.2
15°	5938.3	5915.1	5873.1	5924.9	5932.1
17.5°	5857.9	5827.6	5799.9	5866.9	5856.1
20°	5764.1	5728.4	5723.1	5796.3	5769.5
22.5°	5648.0	5620.3	5632.8	5702.5	5685.5
25°	5516.7	5492.6	5531.0	5581.9	5565.8
27.5°	5378.3	5364.0	5407.7	5447.0	5415.8
30°	5226.4	5218.4	5276.4	5308.6	5269.3
32.5°	5061.2	5063.8	5119.2	5163.0	5126.4
35°	4889.7	4901.3	4951.3	5004.0	4984.3
37.5°	4701.2	4727.1	4777.1	4836.9	4816.4
40°	4502.0	4539.5	4594.9	4667.2	4648.5
42.5°	4286.7	4334.0	4405.5	4485.9	4484.1
45°	4058.0	4124.1	4201.0	4308.1	4321.5
47.5°	3820.4	3894.6	3991.9	4134.9	4155.4
50°	3562.3	3655.2	3776.7	3948.2	3960.7
52.5°	3274.7	3401.5	3562.3	3726.6	3711.5
55°	2986.1	3129.9	3343.4	3477.4	3469.4
57.5°	2698.5	2860.2	3119.2	3214.8	3213.9
60°	2376.9	2581.5	2864.7	2937.0	2865.5
62.5°	2079.5	2299.2	2593.1	2540.4	2295.7
65°	1752.6	2026.8	2301.0	1941.9	1585.5
67.5°	1462.3	1748.1	1954.4	1330.0	1138.9
70°	1170.2	1485.5	1523.9	987.0	973.6
72.5°	911.1	1247.0	1051.4	845.0	887.9
75°	689.6	1000.4	736.0	753.0	802.1
77.5°	502.9	768.2	572.6	660.1	700.3
80°	345.7	544.0	467.2	554.7	582.4
82.5°	217.1	359.1	374.3	446.6	475.2
85°	118.8	227.8	292.1	352.8	369.8
87.5°	49.1	137.6	223.3	272.4	286.7
90°	0.9	75.9	151.0	189.4	198.3
92.5°	0.9	58.1	123.3	152.7	159.0
95°	0.9	47.3	103.6	125.9	129.5
97.5°	1.8	37.5	86.6	104.5	108.1
100°	2.7	31.3	72.4	87.5	90.2
102.5°	3.6	25.0	60.7	73.2	75.9
105°	3.6	20.5	50.9	61.6	64.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.3	12.5	30.4	38.4	40.2
115°	7.1	10.7	25.9	33.1	34.8
117.5°	7.1	8.9	22.3	27.7	29.5
120°	7.1	8.0	19.7	24.1	25.0
122.5°	7.1	7.1	17.0	21.4	22.3
125°	6.3	7.1	16.1	18.8	19.7
127.5°	7.1	7.1	14.3	17.0	17.9
130°	7.1	8.0	12.5	16.1	16.1
132.5°	8.0	8.9	11.6	15.2	15.2
135°	8.0	8.9	9.8	14.3	15.2
137.5°	8.9	8.9	8.9	13.4	14.3
140°	8.9	8.9	8.0	11.6	12.5
142.5°	8.0	8.9	8.0	10.7	11.6
145°	8.0	8.9	8.9	9.8	10.7
147.5°	8.9	8.9	8.9	8.9	9.8
150°	8.9	8.9	8.9	8.9	8.9
152.5°	8.9	8.9	8.9	8.9	8.9
155°	8.9	9.8	9.8	9.8	8.9
157.5°	8.9	9.8	9.8	9.8	9.8
160°	8.9	9.8	9.8	9.8	9.8
162.5°	9.8	9.8	9.8	9.8	9.8
165°	9.8	9.8	9.8	9.8	9.8
167.5°	9.8	10.7	9.8	9.8	9.8
170°	9.8	9.8	9.8	8.9	8.9
172.5°	9.8	9.8	9.8	8.9	8.9
175°	9.8	9.8	8.9	8.0	8.0
177.5°	10.7	9.8	8.9	8.0	7.1
180°	8.9	8.9	8.9	8.9	8.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.5	17.0	43.8	52.7	54.5
110°	5.4	14.3	36.6	44.7	46.4



(END OF REPORT)