

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: P829916

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

Issue Date: 5/3/2024



**Test Information**

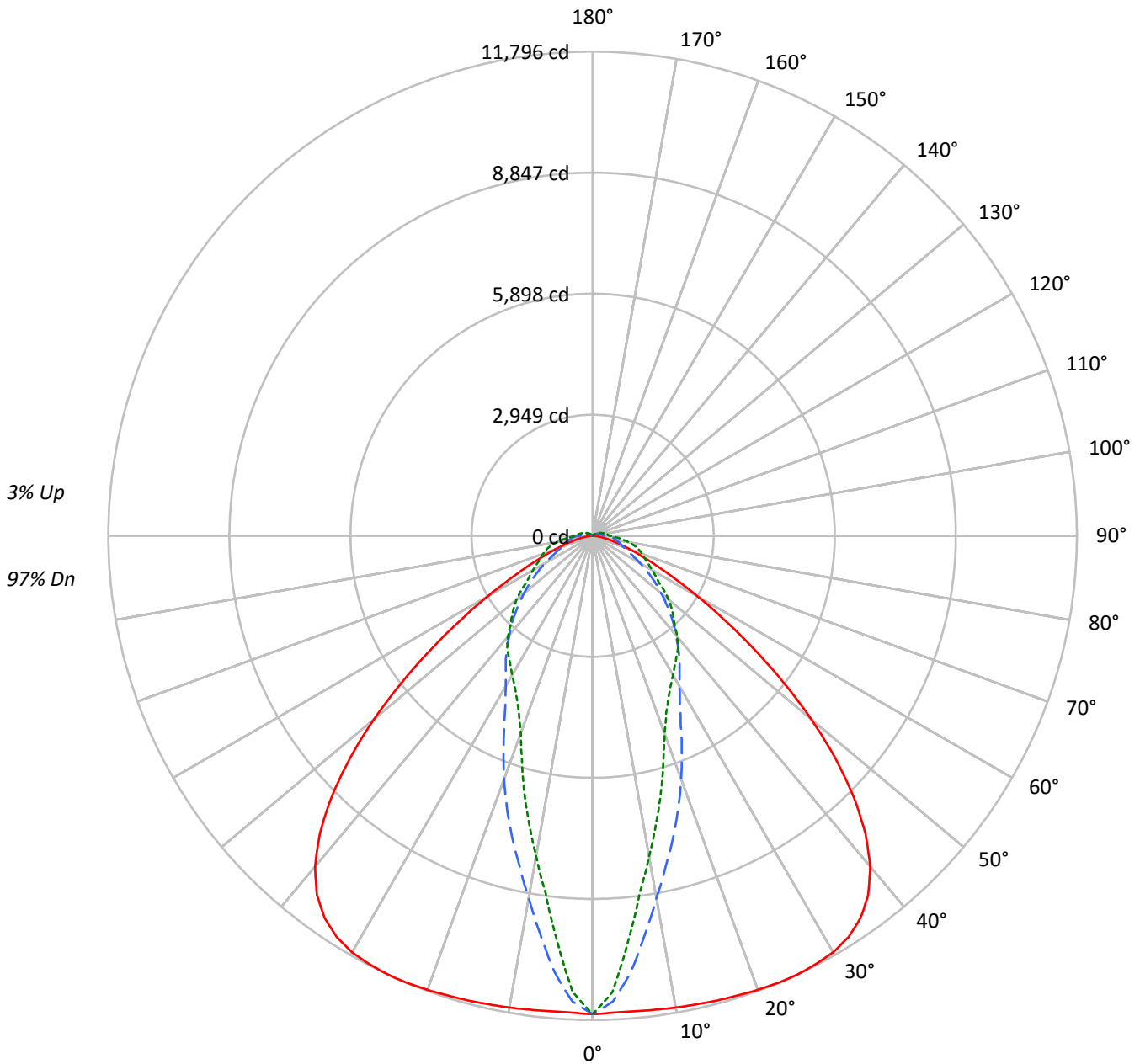
Test Method: LM-79-08  
Report Number: P829916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-N-UNV-L835-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17199.0 lumens  
Efficiency: N/A  
Efficacy: 167.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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<sub>in</sub>): 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19904	19904	19904
5°	19863	18126	16852
10°	20087	15268	13513
15°	20480	13058	11091
20°	21055	11041	8971
25°	21783	9139	7860
30°	22536	7873	7302
35°	23005	7175	6957
40°	22611	6481	6600
45°	20801	5857	6110
50°	17550	5174	5735
55°	13335	4532	5104
60°	9345	3887	4886
65°	6286	3348	4783
70°	4293	3142	5018
75°	2979	3240	5361
80°	2051	3588	5520
85°	1200	4488	5791



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.0	5.7
10°-20°	2307.6	13.4
20°-30°	2892.6	16.8
30°-40°	3069.4	17.8
40°-50°	2775.2	16.1
50°-60°	2012.2	11.7
60°-70°	1262.8	7.3
70°-80°	835.6	4.9
80°-90°	481.4	2.8
90°-100°	233.2	1.4
100°-110°	161.0	0.9
110°-120°	99.3	0.6
120°-130°	48.1	0.3
130°-140°	22.1	0.1
140°-150°	12.1	0.1
150°-160°	5.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	6181.2	35.9
0°-40°	9250.6	53.8
0°-60°	14038.0	81.6
0°-90°	16617.9	96.6
90°-120°	493.6	2.9
90°-150°	575.9	3.3
90°-180°	581.0	3.4
0°-180°	17199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11653	11653	11653	11653	11653	
5°	11630	11332	10666	10172	9915	###
15°	11719	9552	7586	6747	6440	3323
25°	11796	7386	5080	4508	4365	5450
35°	11374	4910	3687	3571	3570	7070
45°	8991	3110	2672	2736	2783	6850
55°	4760	1928	1744	1891	1959	4301
65°	1702	1118	1009	1293	1437	1772
75°	526	602	678	1052	1116	586
85°	92	250	496	690	633	110
90°	0	104	287	405	408	6
95°	4	73	253	344	359	4
105°	9	49	184	244	251	9
115°	12	34	124	155	159	12
125°	13	18	63	80	79	12
135°	11	13	28	43	43	9
145°	13	14	17	26	24	8
155°	13	17	18	19	17	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°	11653.2	11653.2	11653.2	11653.2	11653.2
2.5°	11628.8	11562.3	11354.9	11228.5	11122.0
5°	11629.9	11331.6	10666.1	10171.5	9915.3
7.5°	11646.6	10983.3	9784.4	9062.4	8780.7
10°	11672.1	10551.9	8961.5	8191.8	7928.9
12.5°	11690.9	10066.1	8237.2	7446.5	7158.1
15°	11718.7	9551.5	7586.2	6746.6	6440.5
17.5°	11744.2	9066.8	6942.9	6065.6	5725.1
20°	11769.7	8544.5	6299.6	5395.7	5115.1
22.5°	11794.1	7993.2	5671.9	4875.6	4683.7
25°	11796.3	7385.5	5079.6	4508.5	4365.4
27.5°	11767.5	6755.5	4599.4	4201.2	4112.5
30°	11717.6	6144.4	4226.8	3979.4	3916.2
32.5°	11593.3	5521.1	3938.4	3765.4	3728.8
35°	11373.7	4910.0	3686.6	3571.3	3570.2
37.5°	11027.7	4367.6	3413.8	3393.8	3418.2
40°	10516.4	3892.9	3155.4	3208.6	3208.6
42.5°	9834.3	3480.3	2921.4	2975.7	2961.3
45°	8991.4	3109.9	2671.8	2736.1	2782.7
47.5°	8014.3	2783.8	2416.7	2540.9	2605.3
50°	6951.8	2473.3	2183.8	2342.4	2415.6
52.5°	5838.3	2186.0	1956.4	2138.3	2197.1
55°	4760.2	1927.6	1743.5	1891.0	1958.7
57.5°	3784.2	1681.4	1535.0	1674.7	1814.5
60°	2944.6	1469.5	1338.7	1538.3	1678.1
62.5°	2249.2	1281.0	1154.6	1410.8	1550.5
65°	1702.5	1118.0	1009.3	1293.2	1437.4
67.5°	1283.2	977.1	896.1	1207.8	1348.7
70°	963.8	840.7	805.2	1154.6	1281.0
72.5°	712.0	715.4	733.1	1108.0	1204.5
75°	525.7	602.2	677.7	1052.5	1115.7
77.5°	376.0	499.1	627.7	986.0	1008.2
80°	260.6	407.0	575.6	898.4	879.5
82.5°	163.0	326.1	529.0	801.9	749.7
85°	92.1	249.5	495.8	689.9	633.3
87.5°	41.0	186.3	433.7	537.9	502.4
90°	0.0	104.3	287.3	404.8	408.1
92.5°	2.2	86.5	265.1	370.4	381.5
95°	4.4	73.2	252.9	343.8	359.3
97.5°	5.5	64.3	237.3	319.4	332.7
100°	6.7	57.7	218.5	293.9	305.0
102.5°	7.8	53.2	200.7	267.3	276.2
105°	8.9	48.8	184.1	244.0	250.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.1	37.7	138.6	175.2	180.8
115°	12.2	34.4	124.2	155.3	158.6
117.5°	13.3	29.9	108.7	136.4	137.5
120°	13.3	26.6	93.2	116.5	116.5
122.5°	13.3	22.2	77.6	96.5	95.4
125°	13.3	17.7	63.2	79.9	78.7
127.5°	12.2	14.4	51.0	66.5	65.4
130°	12.2	14.4	41.0	56.6	56.6
132.5°	11.1	13.3	33.3	48.8	48.8
135°	11.1	13.3	27.7	43.3	43.3
137.5°	11.1	14.4	23.3	37.7	37.7
140°	11.1	13.3	20.0	33.3	33.3
142.5°	12.2	13.3	17.7	28.8	28.8
145°	13.3	14.4	16.6	25.5	24.4
147.5°	13.3	15.5	16.6	22.2	21.1
150°	13.3	16.6	16.6	20.0	18.9
152.5°	13.3	16.6	16.6	18.9	17.7
155°	13.3	16.6	17.7	18.9	16.6
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°	8.9	45.5	168.6	218.5	226.3
110°	10.0	41.0	154.2	195.2	203.0



(END OF REPORT)