

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: P829940

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

Issue Date: 5/3/2024



**Test Information**

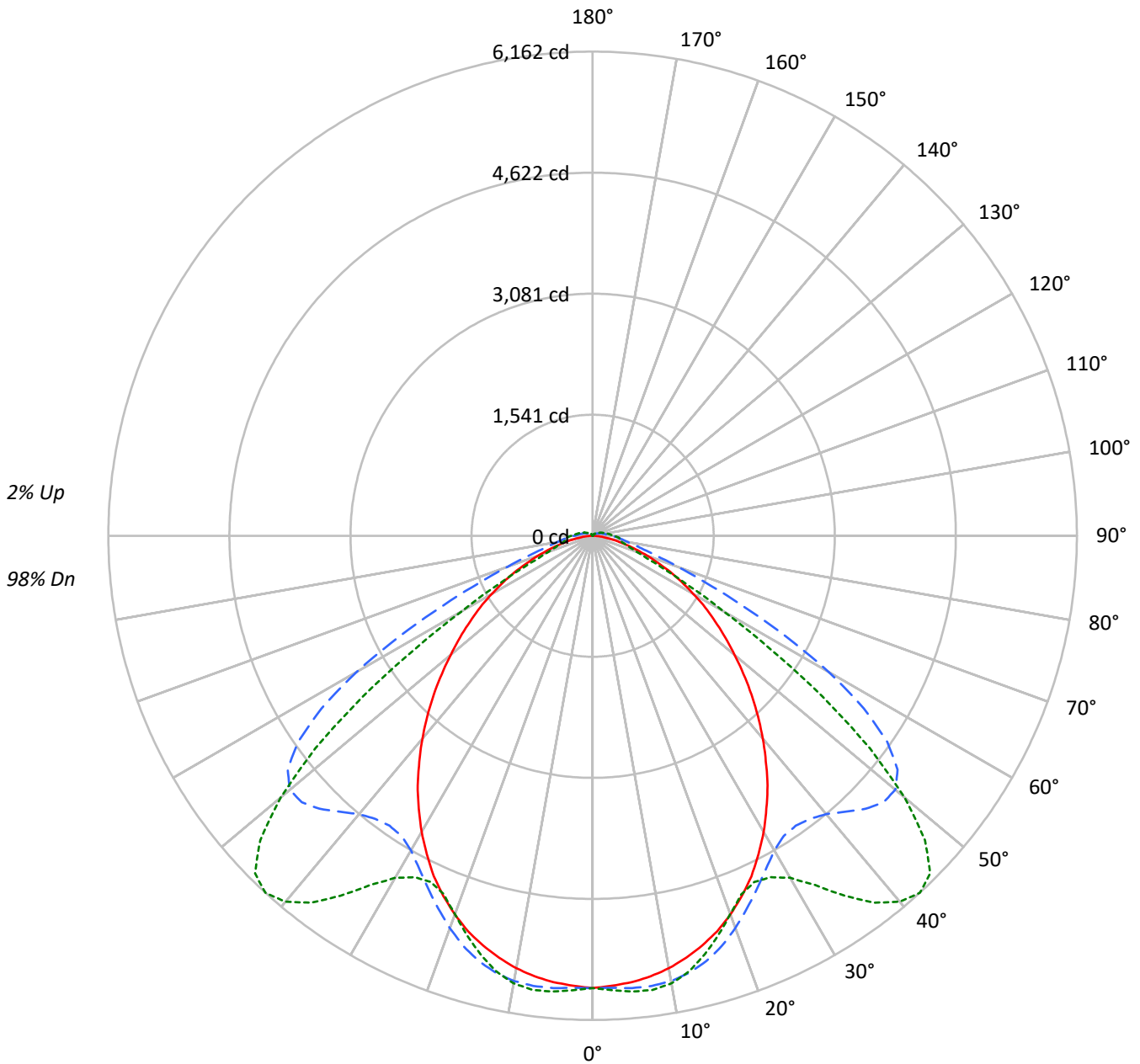
Test Method: LM-79-08  
Report Number: P829940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-W-UNV-L835-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17235.0 lumens  
Efficiency: N/A  
Efficacy: 167.3 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<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

TEST NUMBER: P829940  
CATALOG NUMBER: OHBL-18HE-W-UNV-L835-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P829940

CATALOG NUMBER: OHBL-18HE-W-UNV-L835-CD

**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°	9832	9832	9832
5°	9740	9818	9895
10°	9618	9803	9859
15°	9430	9641	9496
20°	9173	9309	8984
25°	8829	8908	8757
30°	8372	8610	9369
35°	7850	8769	10895
40°	7244	9497	12507
45°	6611	10772	13338
50°	5951	11912	12298
55°	5330	11896	9293
60°	4698	10064	5604
65°	4031	6949	3335
70°	3275	4491	2350
75°	2491	3218	2100
80°	1789	2826	2229
85°	1213	3103	3100



TEST NUMBER: P829940

CATALOG NUMBER: OHBL-18HE-W-UNV-L835-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.1	3.2
10°-20°	1557.6	9.0
20°-30°	2279.3	13.2
30°-40°	2960.2	17.2
40°-50°	3614.7	21.0
50°-60°	3183.4	18.5
60°-70°	1658.9	9.6
70°-80°	711.4	4.1
80°-90°	341.6	2.0
90°-100°	160.5	0.9
100°-110°	99.8	0.6
110°-120°	59.0	0.3
120°-130°	32.1	0.2
130°-140°	16.1	0.1
140°-150°	7.7	0.0
150°-160°	2.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4387.0	25.5
0°-40°	7347.2	42.6
0°-60°	14145.3	82.1
0°-90°	16857.1	97.8
90°-120°	319.2	1.9
90°-150°	375.1	2.2
90°-180°	378.0	2.2
0°-180°	17235.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5756	5756	5756	5756	5756	
5°	5703	5746	5777	5828	5822	541
15°	5396	5548	5601	5559	5514	1519
25°	4781	5037	4951	4858	4863	2194
35°	3881	4291	4506	5254	5591	2419
45°	2858	3595	4914	5950	6074	2203
55°	1903	3149	4576	4013	3567	1708
65°	1092	2182	2095	1165	1002	1080
75°	440	1021	673	461	437	479
85°	93	364	343	335	339	104
90°	1	132	226	258	264	6
95°	2	77	180	211	217	2
105°	5	44	117	140	143	5
115°	8	25	72	88	91	8
125°	9	12	42	55	56	7
135°	8	8	20	34	35	6
145°	10	8	9	16	19	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	



TEST NUMBER: P829940

CATALOG NUMBER: OHBL-18HE-W-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5756.2	5756.2	5756.2	5756.2	5756.2
2.5°	5731.3	5756.2	5757.4	5792.2	5788.5
5°	5702.8	5746.2	5777.3	5828.2	5822.0
7.5°	5655.6	5723.9	5778.5	5834.4	5829.4
10°	5588.5	5681.7	5753.7	5799.6	5784.7
12.5°	5501.6	5624.5	5695.3	5705.3	5676.7
15°	5396.0	5547.5	5600.9	5558.7	5514.0
17.5°	5276.8	5454.4	5473.0	5381.1	5325.2
20°	5127.8	5330.2	5311.6	5184.9	5122.8
22.5°	4962.6	5193.6	5134.0	5001.1	4941.5
25°	4781.3	5037.1	4951.4	4858.3	4863.3
27.5°	4568.9	4859.5	4776.3	4818.5	4898.0
30°	4352.8	4673.2	4622.3	4868.2	5024.7
32.5°	4115.6	4482.0	4527.9	5013.5	5269.4
35°	3880.9	4290.7	4505.6	5254.5	5591.0
37.5°	3621.4	4097.0	4541.6	5532.6	5885.3
40°	3369.3	3908.2	4623.6	5782.3	6080.3
42.5°	3112.2	3739.3	4761.4	5930.0	6162.3
45°	2857.6	3595.3	4914.2	5949.9	6074.1
47.5°	2603.0	3473.6	5019.7	5792.2	5735.1
50°	2357.1	3365.5	5027.2	5413.4	5179.9
52.5°	2127.4	3266.2	4890.6	4809.9	4447.2
55°	1902.6	3149.4	4576.4	4012.6	3566.7
57.5°	1697.7	2988.0	4092.0	3155.7	2668.8
60°	1480.3	2769.4	3466.1	2308.7	1924.9
62.5°	1280.4	2497.4	2764.5	1607.0	1383.5
65°	1091.6	2182.0	2095.1	1164.9	1002.2
67.5°	891.7	1855.4	1546.2	849.5	745.1
70°	735.2	1552.4	1151.2	660.7	599.8
72.5°	575.0	1264.2	860.6	536.5	503.0
75°	439.6	1020.8	673.1	460.7	437.1
77.5°	324.1	807.2	541.5	407.3	385.0
80°	227.3	635.8	453.3	363.9	355.2
82.5°	152.8	491.8	386.2	346.5	347.7
85°	93.1	363.9	342.8	335.3	339.0
87.5°	44.7	258.3	294.3	305.5	309.2
90°	1.2	131.6	226.0	258.3	264.5
92.5°	0.0	100.6	198.7	231.0	237.2
95°	2.5	77.0	180.1	211.1	217.3
97.5°	2.5	63.3	161.4	193.7	197.5
100°	3.7	54.6	144.1	175.1	178.8
102.5°	3.7	48.4	129.2	156.5	159.0
105°	5.0	43.5	116.7	140.3	142.8



TEST NUMBER: P829940

CATALOG NUMBER: OHBL-18HE-W-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.5	29.8	82.0	99.4	101.8
115°	7.5	24.8	72.0	88.2	90.7
117.5°	8.7	22.4	63.3	78.2	79.5
120°	8.7	18.6	54.6	69.5	70.8
122.5°	8.7	14.9	48.4	62.1	63.3
125°	8.7	12.4	42.2	54.6	55.9
127.5°	7.5	8.7	36.0	48.4	49.7
130°	7.5	7.5	29.8	42.2	44.7
132.5°	7.5	7.5	24.8	37.3	39.7
135°	7.5	7.5	19.9	33.5	34.8
137.5°	7.5	7.5	16.1	28.6	31.0
140°	7.5	7.5	12.4	24.8	26.1
142.5°	8.7	7.5	11.2	21.1	22.4
145°	9.9	7.5	8.7	16.1	18.6
147.5°	9.9	8.7	8.7	13.7	14.9
150°	9.9	9.9	7.5	9.9	12.4
152.5°	9.9	9.9	7.5	7.5	9.9
155°	9.9	9.9	7.5	7.5	7.5
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°	6.2	38.5	104.3	125.4	127.9
110°	6.2	33.5	91.9	111.8	114.3



(END OF REPORT)