

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: P830468

Luminaire Tested: **OHBL-48HE-MCL-UNV-L835-CD**

Issue Date: 5/3/2024

**Test Information**

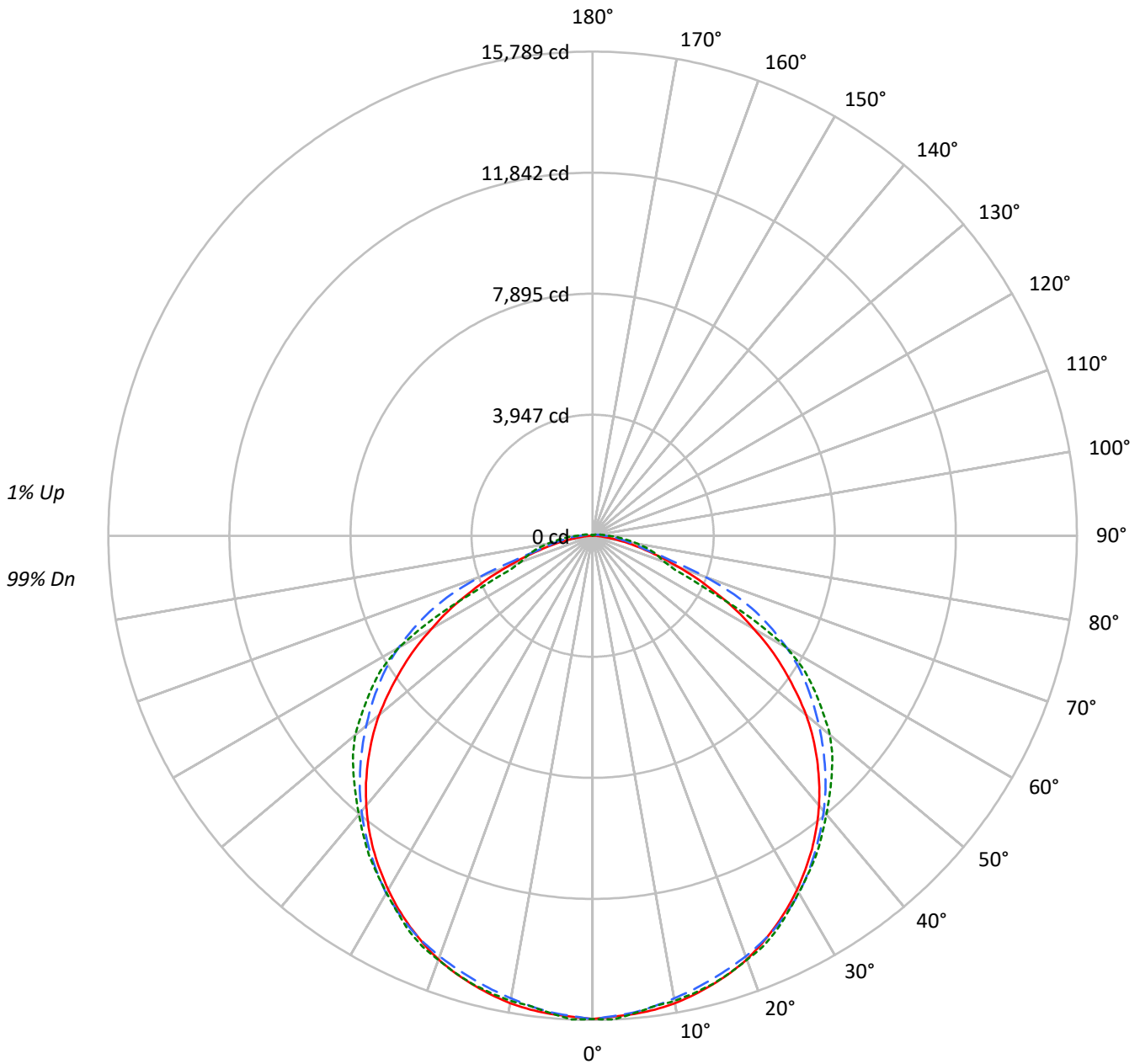
Test Method: LM-79-08  
Report Number: P830468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-MCL-UNV-L835-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44537.0 lumens  
Efficiency: N/A  
Efficacy: 167.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 266  
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	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°	24920	24920	24920
5°	24757	24558	24609
10°	24666	24186	24336
15°	24509	23907	24173
20°	24353	23732	23959
25°	24059	23556	23747
30°	23740	23278	23298
35°	23357	22836	23050
40°	22861	22380	22713
45°	22172	21853	22563
50°	21239	21252	22385
55°	19757	20661	21549
60°	17816	19796	19922
65°	15283	18192	12626
70°	12310	14201	9154
75°	9229	8430	9291
80°	6424	7010	8870
85°	3656	6423	8314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1485.8	3.3
10°-20°	4260.5	9.6
20°-30°	6507.1	14.6
30°-40°	7895.3	17.7
40°-50°	8275.0	18.6
50°-60°	7498.4	16.8
60°-70°	5027.4	11.3
70°-80°	2257.5	5.1
80°-90°	819.2	1.8
90°-100°	246.6	0.6
100°-110°	116.3	0.3
110°-120°	58.3	0.1
120°-130°	32.2	0.1
130°-140°	22.1	0.0
140°-150°	14.9	0.0
150°-160°	11.1	0.0
160°-170°	7.1	0.0
170°-180°	2.3	0.0
0°-30°	12253.3	27.5
0°-40°	20148.6	45.2
0°-60°	35922.0	80.7
0°-90°	44026.2	98.9
90°-120°	421.3	0.9
90°-150°	490.4	1.1
90°-180°	511.0	1.1
0°-180°	44537.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15757	15757	15757	15757	15757	
5°	15655	15709	15600	15648	15627	###
15°	15147	15087	14980	15112	15131	4277
25°	14071	14010	14108	14238	14196	6486
35°	12472	12501	12629	12763	12713	7795
45°	10351	10519	10715	10989	11023	7974
55°	7617	7983	8528	8870	8849	6799
65°	4470	5170	5869	4953	4044	4454
75°	1759	2552	1877	1921	2046	1922
85°	303	581	745	900	943	370
90°	2	194	385	483	506	18
95°	2	121	264	321	330	3
105°	9	52	130	157	164	11
115°	18	27	66	84	89	17
125°	16	18	41	48	50	16
135°	20	23	25	36	39	16
145°	20	23	23	25	27	14
155°	23	25	25	25	23	11
165°	25	25	25	25	25	7
175°	25	25	23	20	20	2
180°	23	23	23	23	23	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15757.2	15757.2	15757.2	15757.2	15757.2
2.5°	15693.4	15759.5	15677.5	15766.3	15789.1
5°	15654.7	15709.4	15600.0	15647.9	15627.4
7.5°	15584.1	15602.3	15472.4	15511.2	15470.2
10°	15479.3	15470.2	15317.5	15392.7	15401.8
12.5°	15324.3	15297.0	15160.3	15274.2	15276.5
15°	15146.6	15087.4	14980.3	15112.4	15130.7
17.5°	14941.6	14864.1	14793.5	14964.4	14937.0
20°	14702.3	14611.2	14597.5	14784.4	14716.0
22.5°	14406.2	14335.5	14367.4	14545.1	14501.8
25°	14071.2	14009.7	14107.7	14237.6	14196.5
27.5°	13718.1	13681.6	13793.3	13893.5	13813.8
30°	13330.8	13310.3	13458.3	13540.4	13440.1
32.5°	12909.3	12916.1	13057.4	13169.0	13075.6
35°	12471.8	12501.4	12629.0	12763.4	12713.3
37.5°	11991.1	12057.2	12184.7	12337.4	12285.0
40°	11483.0	11578.7	11720.0	11904.5	11856.7
42.5°	10933.9	11054.7	11236.9	11442.0	11437.4
45°	10350.6	10519.2	10715.2	10988.6	11022.8
47.5°	9744.6	9933.7	10182.0	10546.6	10599.0
50°	9086.2	9323.1	9633.0	10070.4	10102.3
52.5°	8352.5	8676.0	9086.2	9505.4	9466.6
55°	7616.6	7983.4	8528.0	8869.7	8849.2
57.5°	6883.0	7295.4	7956.1	8199.9	8197.6
60°	6062.8	6584.5	7306.7	7491.3	7309.0
62.5°	5304.1	5864.5	6614.1	6479.7	5855.4
65°	4470.2	5169.6	5869.1	4953.2	4044.1
67.5°	3729.7	4458.8	4985.1	3392.5	2904.9
70°	2984.7	3788.9	3886.9	2517.6	2483.4
72.5°	2323.9	3180.6	2681.6	2155.3	2264.7
75°	1758.9	2551.8	1877.4	1920.7	2046.0
77.5°	1282.7	1959.4	1460.4	1683.7	1786.2
80°	881.7	1387.5	1191.6	1414.9	1485.5
82.5°	553.6	915.9	954.6	1139.2	1212.1
85°	303.0	581.0	745.0	900.0	943.2
87.5°	125.3	350.9	569.6	694.9	731.4
90°	2.3	193.7	385.0	483.0	505.8
92.5°	2.3	148.1	314.4	389.6	405.6
95°	2.3	120.8	264.3	321.3	330.4
97.5°	4.6	95.7	221.0	266.6	275.7
100°	6.8	79.7	184.5	223.3	230.1
102.5°	9.1	63.8	154.9	186.8	193.7
105°	9.1	52.4	129.9	157.2	164.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.9	31.9	77.5	98.0	102.5
115°	18.2	27.3	66.1	84.3	88.9
117.5°	18.2	22.8	57.0	70.6	75.2
120°	18.2	20.5	50.1	61.5	63.8
122.5°	18.2	18.2	43.3	54.7	57.0
125°	15.9	18.2	41.0	47.8	50.1
127.5°	18.2	18.2	36.5	43.3	45.6
130°	18.2	20.5	31.9	41.0	41.0
132.5°	20.5	22.8	29.6	38.7	38.7
135°	20.5	22.8	25.1	36.5	38.7
137.5°	22.8	22.8	22.8	34.2	36.5
140°	22.8	22.8	20.5	29.6	31.9
142.5°	20.5	22.8	20.5	27.3	29.6
145°	20.5	22.8	22.8	25.1	27.3
147.5°	22.8	22.8	22.8	22.8	25.1
150°	22.8	22.8	22.8	22.8	22.8
152.5°	22.8	22.8	22.8	22.8	22.8
155°	22.8	25.1	25.1	25.1	22.8
157.5°	22.8	25.1	25.1	25.1	25.1
160°	22.8	25.1	25.1	25.1	25.1
162.5°	25.1	25.1	25.1	25.1	25.1
165°	25.1	25.1	25.1	25.1	25.1
167.5°	25.1	27.3	25.1	25.1	25.1
170°	25.1	25.1	25.1	22.8	22.8
172.5°	25.1	25.1	25.1	22.8	22.8
175°	25.1	25.1	22.8	20.5	20.5
177.5°	27.3	25.1	22.8	20.5	18.2
180°	22.8	22.8	22.8	22.8	22.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	11.4	43.3	111.6	134.4	139.0
110°	13.7	36.5	93.4	113.9	118.5



(END OF REPORT)