

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: P830456

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830456
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-A-UNV-L835-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

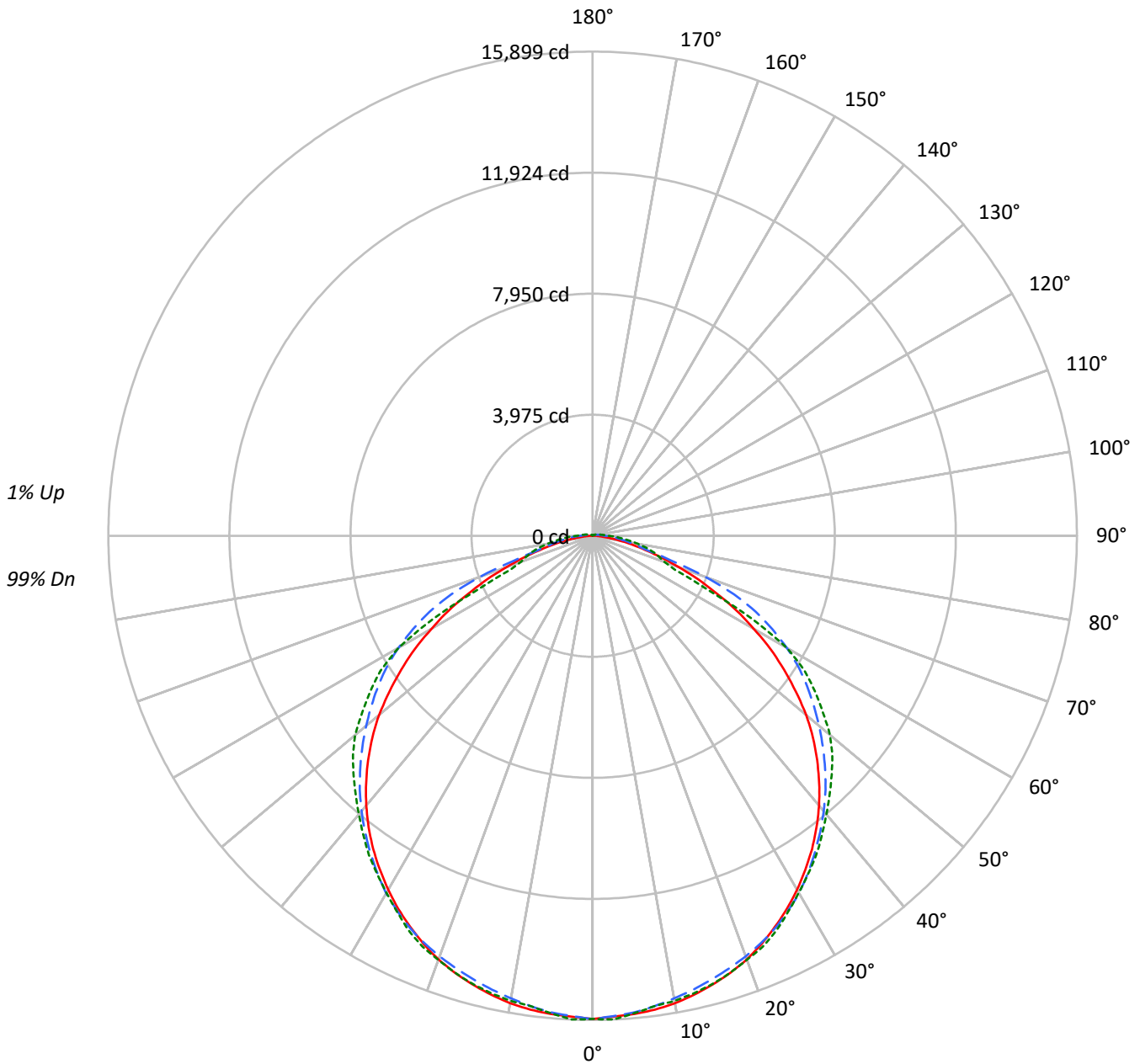
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44845.9 lumens
Efficiency: N/A
Efficacy: 168.6 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_{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°	25093	25093	25093
5°	24928	24728	24780
10°	24837	24354	24505
15°	24680	24073	24341
20°	24522	23897	24125
25°	24226	23719	23912
30°	23904	23439	23459
35°	23519	22995	23210
40°	23019	22536	22870
45°	22326	22004	22720
50°	21386	21400	22540
55°	19894	20805	21699
60°	17939	19934	20061
65°	15389	18318	12714
70°	12395	14300	9218
75°	9293	8489	9355
80°	6468	7059	8932
85°	3681	6467	8372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1496.1	3.3
10°-20°	4290.0	9.6
20°-30°	6552.2	14.6
30°-40°	7950.1	17.7
40°-50°	8332.4	18.6
50°-60°	7550.4	16.8
60°-70°	5062.3	11.3
70°-80°	2273.2	5.1
80°-90°	824.9	1.8
90°-100°	248.3	0.6
100°-110°	117.2	0.3
110°-120°	58.7	0.1
120°-130°	32.4	0.1
130°-140°	22.3	0.0
140°-150°	15.0	0.0
150°-160°	11.1	0.0
160°-170°	7.1	0.0
170°-180°	2.3	0.0
0°-30°	12338.3	27.5
0°-40°	20288.4	45.2
0°-60°	36171.3	80.7
0°-90°	44331.6	98.9
90°-120°	424.2	0.9
90°-150°	493.8	1.1
90°-180°	514.0	1.1
0°-180°	44845.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15867	15867	15867	15867	15867	
5°	15763	15818	15708	15756	15736	###
15°	15252	15192	15084	15217	15236	4306
25°	14169	14107	14206	14336	14295	6531
35°	12558	12588	12717	12852	12802	7849
45°	10422	10592	10790	11065	11099	8029
55°	7669	8039	8587	8931	8911	6846
65°	4501	5206	5910	4988	4072	4485
75°	1771	2570	1890	1934	2060	1936
85°	305	585	750	906	950	372
90°	2	195	388	486	509	18
95°	2	122	266	324	333	3
105°	9	53	131	158	165	11
115°	18	28	66	85	90	17
125°	16	18	41	48	50	16
135°	21	23	25	37	39	16
145°	21	23	23	25	28	14
155°	23	25	25	25	23	11
165°	25	25	25	25	25	7
175°	25	25	23	21	21	2
180°	23	23	23	23	23	



TEST NUMBER: P830456

CATALOG NUMBER: OHBL-48HE-A-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15866.6	15866.6	15866.6	15866.6	15866.6
2.5°	15802.3	15868.8	15786.3	15875.7	15898.7
5°	15763.3	15818.4	15708.3	15756.4	15735.8
7.5°	15692.2	15710.5	15579.8	15618.8	15577.5
10°	15586.7	15577.5	15423.8	15499.5	15508.7
12.5°	15430.7	15403.1	15265.5	15380.2	15382.5
15°	15251.7	15192.1	15084.2	15217.3	15235.7
17.5°	15045.2	14967.2	14896.1	15068.2	15040.6
20°	14804.3	14712.6	14698.8	14886.9	14818.1
22.5°	14506.1	14435.0	14467.1	14646.0	14602.5
25°	14168.9	14106.9	14205.6	14336.3	14295.0
27.5°	13813.3	13776.6	13889.0	13989.9	13909.6
30°	13423.3	13402.6	13551.7	13634.3	13533.4
32.5°	12998.8	13005.7	13147.9	13260.4	13166.3
35°	12558.3	12588.2	12716.6	12852.0	12801.5
37.5°	12074.3	12140.8	12269.3	12423.0	12370.2
40°	11562.7	11659.0	11801.3	11987.1	11938.9
42.5°	11009.8	11131.4	11314.9	11521.4	11516.8
45°	10422.5	10592.2	10789.5	11064.8	11099.2
47.5°	9812.2	10002.6	10252.7	10619.8	10672.5
50°	9149.2	9387.8	9699.8	10140.3	10172.4
52.5°	8410.5	8736.2	9149.2	9571.3	9532.3
55°	7669.4	8038.8	8587.1	8931.2	8910.6
57.5°	6930.7	7346.0	8011.3	8256.8	8254.5
60°	6104.8	6630.2	7357.4	7543.3	7359.7
62.5°	5340.9	5905.2	6660.0	6524.6	5896.0
65°	4501.2	5205.5	5909.8	4987.5	4072.2
67.5°	3755.6	4489.7	5019.7	3416.0	2925.1
70°	3005.4	3815.2	3913.9	2535.1	2500.7
72.5°	2340.1	3202.7	2700.3	2170.3	2280.4
75°	1771.1	2569.5	1890.4	1934.0	2060.2
77.5°	1291.6	1973.0	1470.6	1695.4	1798.6
80°	887.8	1397.2	1199.9	1424.7	1495.8
82.5°	557.5	922.3	961.3	1147.1	1220.5
85°	305.1	585.0	750.2	906.2	949.8
87.5°	126.2	353.3	573.5	699.7	736.4
90°	2.3	195.0	387.7	486.4	509.3
92.5°	2.3	149.1	316.6	392.3	408.4
95°	2.3	121.6	266.1	323.5	332.7
97.5°	4.6	96.4	222.5	268.4	277.6
100°	6.9	80.3	185.8	224.8	231.7
102.5°	9.2	64.2	156.0	188.1	195.0
105°	9.2	52.8	130.8	158.3	165.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.1	32.1	78.0	98.6	103.2
115°	18.4	27.5	66.5	84.9	89.5
117.5°	18.4	22.9	57.4	71.1	75.7
120°	18.4	20.6	50.5	61.9	64.2
122.5°	18.4	18.4	43.6	55.1	57.4
125°	16.1	18.4	41.3	48.2	50.5
127.5°	18.4	18.4	36.7	43.6	45.9
130°	18.4	20.6	32.1	41.3	41.3
132.5°	20.6	22.9	29.8	39.0	39.0
135°	20.6	22.9	25.2	36.7	39.0
137.5°	22.9	22.9	22.9	34.4	36.7
140°	22.9	22.9	20.6	29.8	32.1
142.5°	20.6	22.9	20.6	27.5	29.8
145°	20.6	22.9	22.9	25.2	27.5
147.5°	22.9	22.9	22.9	22.9	25.2
150°	22.9	22.9	22.9	22.9	22.9
152.5°	22.9	22.9	22.9	22.9	22.9
155°	22.9	25.2	25.2	25.2	22.9
157.5°	22.9	25.2	25.2	25.2	25.2
160°	22.9	25.2	25.2	25.2	25.2
162.5°	25.2	25.2	25.2	25.2	25.2
165°	25.2	25.2	25.2	25.2	25.2
167.5°	25.2	27.5	25.2	25.2	25.2
170°	25.2	25.2	25.2	22.9	22.9
172.5°	25.2	25.2	25.2	22.9	22.9
175°	25.2	25.2	22.9	20.6	20.6
177.5°	27.5	25.2	22.9	20.6	18.4
180°	22.9	22.9	22.9	22.9	22.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.5	43.6	112.4	135.4	139.9
110°	13.8	36.7	94.1	114.7	119.3



(END OF REPORT)