

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: P830476

Luminaire Tested: **OHBL-48HE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-MFL-UNV-L735-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

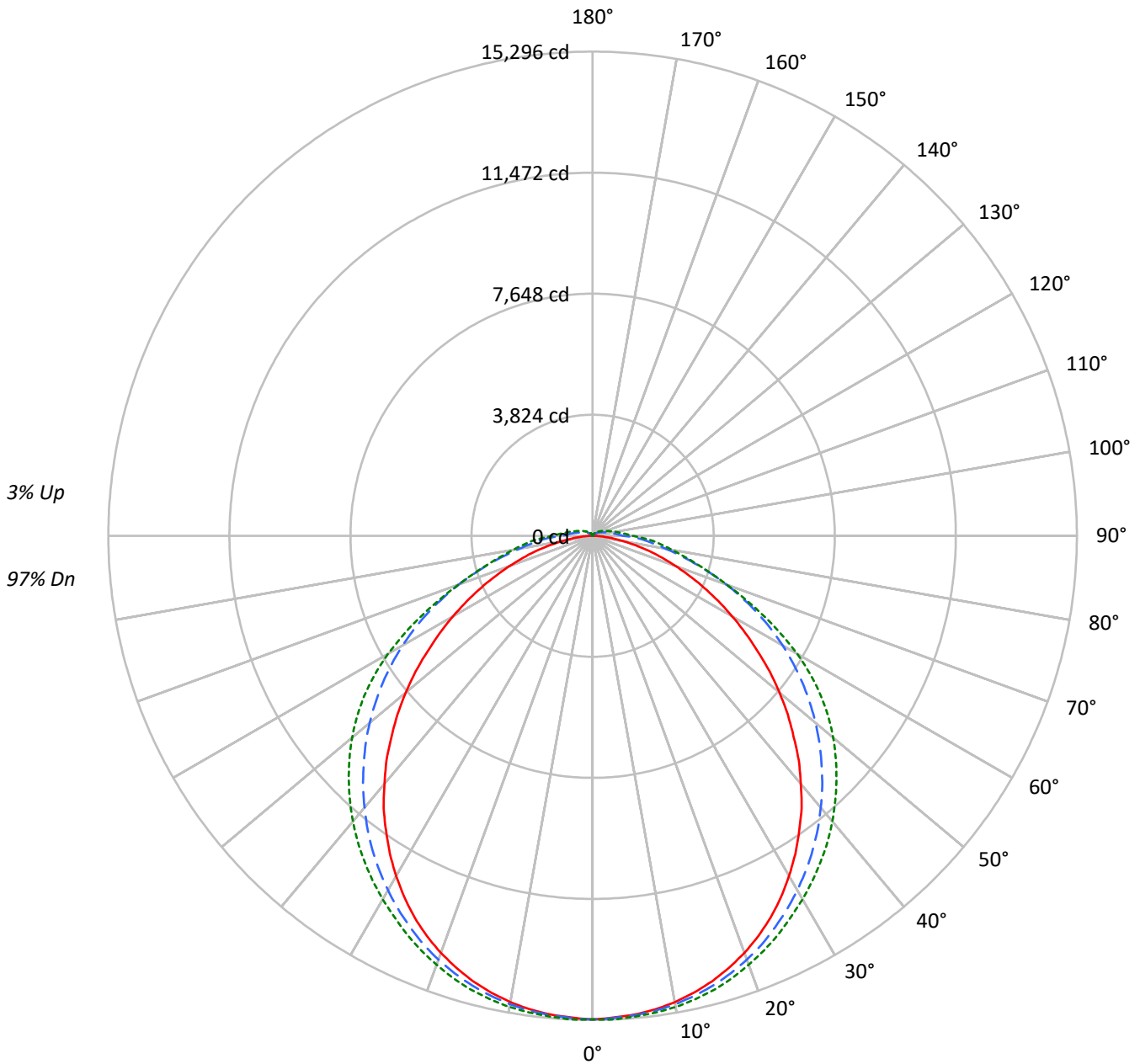
Lumens per Lamp: N/A
Luminaire Lumens: 45733.0 lumens
Efficiency: N/A
Efficacy: 171.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830476

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L735-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830476

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L735-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24166	24166	24166
5°	24012	23937	24011
10°	23843	23726	23885
15°	23577	23474	23720
20°	23223	23165	23478
25°	22751	22779	23234
30°	22097	22361	22988
35°	21306	21917	22776
40°	20355	21403	22567
45°	19235	20845	22300
50°	18008	20280	21976
55°	16501	19589	21429
60°	14957	18776	20336
65°	13272	17736	18541
70°	11445	16410	16597
75°	9596	14879	15284
80°	7275	13772	15163
85°	4603	14315	16944



TEST NUMBER: P830476

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L735-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1447.9	3.2
10°-20°	4153.9	9.1
20°-30°	6282.1	13.7
30°-40°	7541.7	16.5
40°-50°	7789.4	17.0
50°-60°	7008.0	15.3
60°-70°	5279.0	11.5
70°-80°	3187.6	7.0
80°-90°	1559.0	3.4
90°-100°	656.2	1.4
100°-110°	374.6	0.8
110°-120°	219.9	0.5
120°-130°	124.4	0.3
130°-140°	65.5	0.1
140°-150°	31.8	0.1
150°-160°	11.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11884.0	26.0
0°-40°	19425.7	42.5
0°-60°	34223.1	74.8
0°-90°	44248.8	96.8
90°-120°	1250.7	2.7
90°-150°	1472.4	3.2
90°-180°	1484.0	3.2
0°-180°	45733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15281	15281	15281	15281	15281	
5°	15184	15225	15206	15266	15247	###
15°	14570	14641	14709	14832	14847	4108
25°	13306	13452	13643	13856	13890	6120
35°	11376	11642	12121	12487	12562	7112
45°	8979	9432	10221	10778	10894	6932
55°	6361	7020	8086	8695	8800	5704
65°	3882	4675	5722	6006	5939	3857
75°	1829	2625	3314	3400	3366	1951
85°	382	1006	1660	1889	1922	441
90°	0	393	950	1197	1245	24
95°	19	266	711	905	939	16
105°	26	153	411	538	561	26
115°	30	86	254	340	355	31
125°	30	41	153	221	232	27
135°	26	34	78	135	150	21
145°	37	34	37	67	78	22
155°	37	41	37	34	37	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830476

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15280.9	15280.9	15280.9	15280.9	15280.9
2.5°	15236.0	15273.4	15250.9	15299.5	15295.8
5°	15183.6	15224.8	15206.1	15265.9	15247.2
7.5°	15093.9	15138.7	15135.0	15202.3	15194.8
10°	14963.0	15011.6	15026.5	15116.3	15116.3
12.5°	14783.5	14847.0	14884.4	14992.9	14996.6
15°	14570.3	14641.3	14708.7	14832.1	14847.0
17.5°	14312.2	14402.0	14495.5	14637.6	14656.3
20°	14020.5	14121.5	14248.7	14398.3	14420.7
22.5°	13684.0	13803.6	13968.2	14143.9	14170.1
25°	13306.2	13452.1	13642.8	13856.0	13889.6
27.5°	12876.2	13044.4	13302.5	13541.8	13571.8
30°	12408.7	12606.9	12928.5	13212.7	13261.4
32.5°	11915.0	12143.2	12539.6	12857.5	12924.8
35°	11376.5	11642.0	12120.7	12487.2	12562.0
37.5°	10845.4	11137.1	11679.4	12098.3	12188.0
40°	10224.6	10587.4	11208.2	11671.9	11780.4
42.5°	9641.2	10033.9	10737.0	11241.9	11346.6
45°	8979.3	9431.8	10220.9	10778.1	10894.1
47.5°	8358.5	8848.4	9723.5	10299.4	10419.1
50°	7704.0	8242.5	9192.4	9794.6	9918.0
52.5°	7049.5	7629.2	8642.7	9267.2	9383.2
55°	6361.4	7019.6	8085.5	8695.1	8799.8
57.5°	5721.9	6417.5	7513.3	8092.9	8156.5
60°	5089.9	5811.7	6929.9	7438.5	7460.9
62.5°	4472.8	5232.0	6331.5	6735.4	6705.5
65°	3881.9	4674.8	5721.9	6006.1	5938.8
67.5°	3313.5	4132.5	5097.4	5280.6	5190.9
70°	2774.9	3605.2	4491.5	4585.0	4502.7
72.5°	2300.0	3104.0	3878.2	3956.7	3896.9
75°	1828.8	2625.3	3313.5	3399.5	3365.8
77.5°	1387.5	2161.6	2793.6	2905.8	2913.3
80°	998.5	1739.0	2341.1	2516.9	2539.3
82.5°	658.2	1350.1	1963.4	2187.8	2221.4
85°	381.5	1006.0	1660.5	1888.6	1922.3
87.5°	164.6	725.5	1335.1	1540.8	1581.9
90°	0.0	392.7	949.9	1196.7	1245.4
92.5°	11.2	325.4	815.3	1039.7	1080.8
95°	18.7	265.5	710.6	905.0	938.7
97.5°	22.4	224.4	617.1	789.1	822.8
100°	22.4	194.5	534.8	691.9	721.8
102.5°	22.4	172.0	467.5	605.8	632.0
105°	26.2	153.3	411.4	538.5	561.0



TEST NUMBER: P830476

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L735-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.9	101.0	284.2	381.5	396.4
115°	29.9	86.0	254.3	340.3	355.3
117.5°	33.7	74.8	224.4	306.7	317.9
120°	33.7	63.6	198.2	273.0	288.0
122.5°	33.7	52.4	175.8	246.8	258.0
125°	29.9	41.1	153.3	220.6	231.9
127.5°	26.2	33.7	130.9	198.2	209.4
130°	26.2	29.9	112.2	175.8	187.0
132.5°	26.2	33.7	93.5	153.3	168.3
135°	26.2	33.7	78.5	134.6	149.6
137.5°	26.2	33.7	63.6	115.9	130.9
140°	29.9	33.7	52.4	97.2	112.2
142.5°	33.7	33.7	41.1	82.3	93.5
145°	37.4	33.7	37.4	67.3	78.5
147.5°	37.4	37.4	37.4	52.4	63.6
150°	37.4	41.1	37.4	41.1	52.4
152.5°	37.4	41.1	37.4	33.7	41.1
155°	37.4	41.1	37.4	33.7	37.4
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°	26.2	134.6	362.8	478.7	497.4
110°	26.2	119.7	321.6	426.3	445.0



(END OF REPORT)