

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: P830451

Luminaire Tested: **OHBL-48HE-A-UNV-L730-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830451
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-L730-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

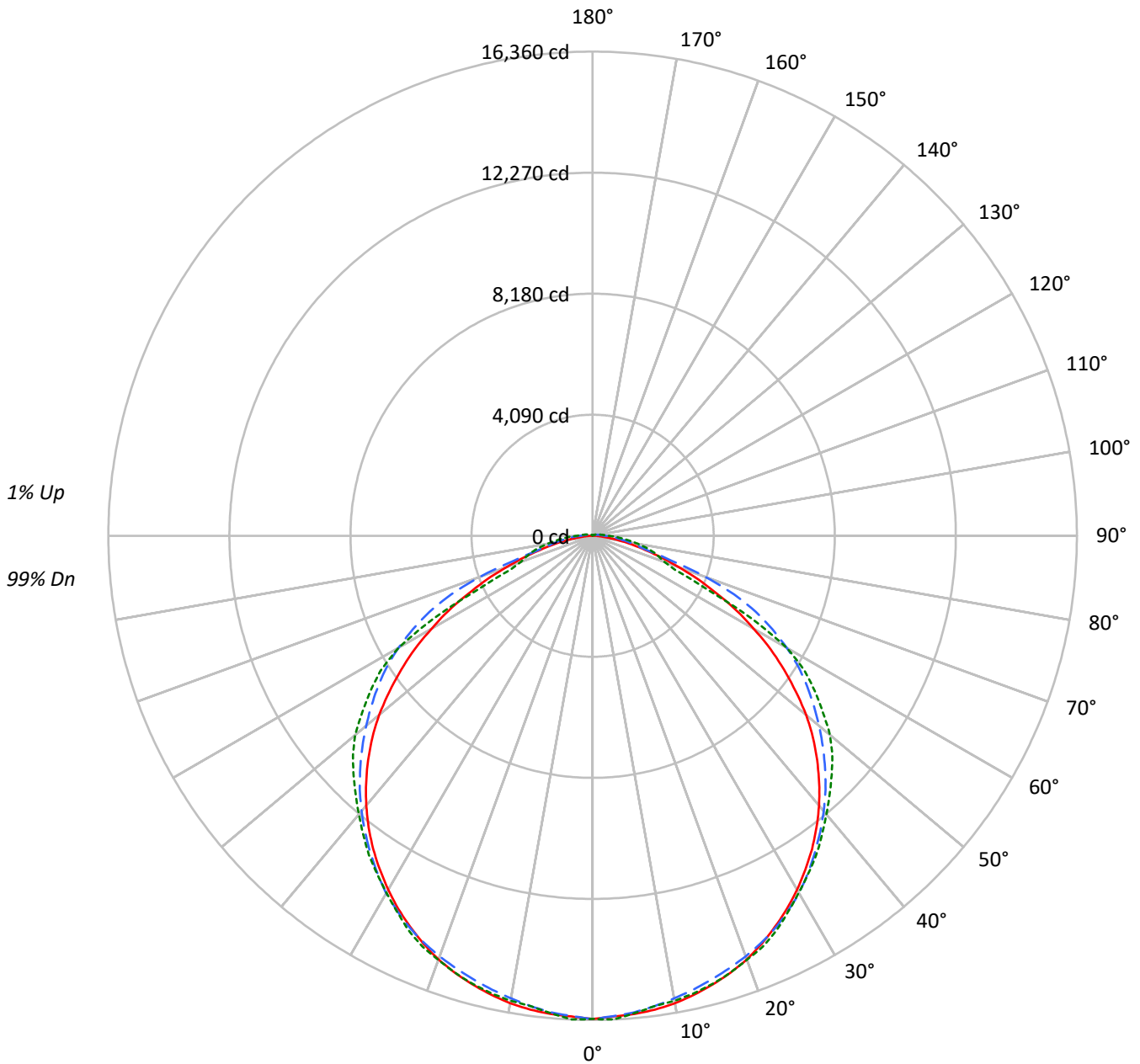
Lumens per Lamp: N/A
Luminaire Lumens: 46146.0 lumens
Efficiency: N/A
Efficacy: 173.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	25820	25820	25820
5°	25651	25445	25498
10°	25557	25060	25215
15°	25395	24771	25046
20°	25233	24590	24825
25°	24928	24407	24605
30°	24597	24119	24139
35°	24201	23661	23883
40°	23686	23189	23533
45°	22973	22642	23378
50°	22006	22020	23193
55°	20471	21408	22328
60°	18459	20512	20642
65°	15835	18849	13082
70°	12755	14714	9485
75°	9562	8735	9626
80°	6656	7263	9191
85°	3789	6654	8615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1539.4	3.3
10°-20°	4414.4	9.6
20°-30°	6742.1	14.6
30°-40°	8180.5	17.7
40°-50°	8574.0	18.6
50°-60°	7769.3	16.8
60°-70°	5209.0	11.3
70°-80°	2339.1	5.1
80°-90°	848.8	1.8
90°-100°	255.5	0.6
100°-110°	120.6	0.3
110°-120°	60.4	0.1
120°-130°	33.3	0.1
130°-140°	22.9	0.0
140°-150°	15.4	0.0
150°-160°	11.5	0.0
160°-170°	7.4	0.0
170°-180°	2.3	0.0
0°-30°	12696.0	27.5
0°-40°	20876.5	45.2
0°-60°	37219.8	80.7
0°-90°	45616.7	98.9
90°-120°	436.5	0.9
90°-150°	508.1	1.1
90°-180°	529.0	1.1
0°-180°	46146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16326	16326	16326	16326	16326	
5°	16220	16277	16164	16213	16192	###
15°	15694	15632	15522	15658	15677	4431
25°	14580	14516	14617	14752	14709	6720
35°	12922	12953	13085	13225	13173	8077
45°	10725	10899	11102	11386	11421	8262
55°	7892	8272	8836	9190	9169	7044
65°	4632	5356	6081	5132	4190	4615
75°	1822	2644	1945	1990	2120	1992
85°	314	602	772	932	977	383
90°	2	201	399	500	524	19
95°	2	125	274	333	342	3
105°	9	54	135	163	170	11
115°	19	28	68	87	92	18
125°	16	19	42	50	52	16
135°	21	24	26	38	40	17
145°	21	24	24	26	28	14
155°	24	26	26	26	24	11
165°	26	26	26	26	26	7
175°	26	26	24	21	21	3
180°	24	24	24	24	24	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16326.5	16326.5	16326.5	16326.5	16326.5
2.5°	16260.4	16328.9	16243.9	16335.9	16359.5
5°	16220.3	16276.9	16163.6	16213.2	16191.9
7.5°	16147.1	16166.0	16031.4	16071.5	16029.0
10°	16038.5	16029.0	15870.9	15948.8	15958.2
12.5°	15878.0	15849.6	15708.0	15826.0	15828.4
15°	15693.8	15632.5	15521.5	15658.4	15677.3
17.5°	15481.4	15401.1	15327.9	15505.0	15476.6
20°	15233.5	15139.1	15124.9	15318.5	15247.7
22.5°	14926.6	14853.4	14886.5	15070.6	15025.8
25°	14579.6	14515.8	14617.4	14751.9	14709.4
27.5°	14213.7	14175.9	14291.6	14395.5	14312.8
30°	13812.4	13791.1	13944.6	14029.5	13925.7
32.5°	13375.6	13382.7	13529.1	13644.8	13548.0
35°	12922.4	12953.1	13085.3	13224.6	13172.6
37.5°	12424.3	12492.7	12624.9	12783.1	12728.8
40°	11897.8	11997.0	12143.4	12334.6	12285.0
42.5°	11328.9	11454.0	11642.9	11855.4	11850.6
45°	10724.6	10899.3	11102.3	11385.6	11421.0
47.5°	10096.6	10292.6	10549.9	10927.6	10981.9
50°	9414.4	9659.9	9981.0	10434.2	10467.3
52.5°	8654.3	8989.5	9414.4	9848.8	9808.6
55°	7891.8	8271.8	8836.0	9190.1	9168.9
57.5°	7131.6	7558.9	8243.5	8496.1	8493.7
60°	6281.8	6822.4	7570.7	7761.9	7573.1
62.5°	5495.7	6076.4	6853.1	6713.8	6067.0
65°	4631.7	5356.4	6081.1	5132.1	4190.2
67.5°	3864.4	4619.9	5165.2	3515.1	3009.9
70°	3092.5	3925.8	4027.3	2608.6	2573.1
72.5°	2407.9	3295.5	2778.5	2233.2	2346.5
75°	1822.4	2644.0	1945.2	1990.1	2119.9
77.5°	1329.1	2030.2	1513.2	1744.5	1850.8
80°	913.6	1437.7	1234.6	1466.0	1539.2
82.5°	573.6	949.0	989.1	1180.3	1255.9
85°	314.0	602.0	771.9	932.5	977.3
87.5°	129.8	363.5	590.2	720.0	757.8
90°	2.4	200.7	399.0	500.5	524.1
92.5°	2.4	153.4	325.8	403.7	420.2
95°	2.4	125.1	273.8	332.9	342.3
97.5°	4.7	99.1	229.0	276.2	285.6
100°	7.1	82.6	191.2	231.3	238.4
102.5°	9.4	66.1	160.5	193.6	200.7
105°	9.4	54.3	134.6	162.9	170.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.5	33.0	80.3	101.5	106.2
115°	18.9	28.3	68.5	87.3	92.1
117.5°	18.9	23.6	59.0	73.2	77.9
120°	18.9	21.2	51.9	63.7	66.1
122.5°	18.9	18.9	44.9	56.7	59.0
125°	16.5	18.9	42.5	49.6	51.9
127.5°	18.9	18.9	37.8	44.9	47.2
130°	18.9	21.2	33.0	42.5	42.5
132.5°	21.2	23.6	30.7	40.1	40.1
135°	21.2	23.6	26.0	37.8	40.1
137.5°	23.6	23.6	23.6	35.4	37.8
140°	23.6	23.6	21.2	30.7	33.0
142.5°	21.2	23.6	21.2	28.3	30.7
145°	21.2	23.6	23.6	26.0	28.3
147.5°	23.6	23.6	23.6	23.6	26.0
150°	23.6	23.6	23.6	23.6	23.6
152.5°	23.6	23.6	23.6	23.6	23.6
155°	23.6	26.0	26.0	26.0	23.6
157.5°	23.6	26.0	26.0	26.0	26.0
160°	23.6	26.0	26.0	26.0	26.0
162.5°	26.0	26.0	26.0	26.0	26.0
165°	26.0	26.0	26.0	26.0	26.0
167.5°	26.0	28.3	26.0	26.0	26.0
170°	26.0	26.0	26.0	23.6	23.6
172.5°	26.0	26.0	26.0	23.6	23.6
175°	26.0	26.0	23.6	21.2	21.2
177.5°	28.3	26.0	23.6	21.2	18.9
180°	23.6	23.6	23.6	23.6	23.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.8	44.9	115.7	139.3	144.0
110°	14.2	37.8	96.8	118.0	122.8



(END OF REPORT)