

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: P830487

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-N-UNV-L730-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

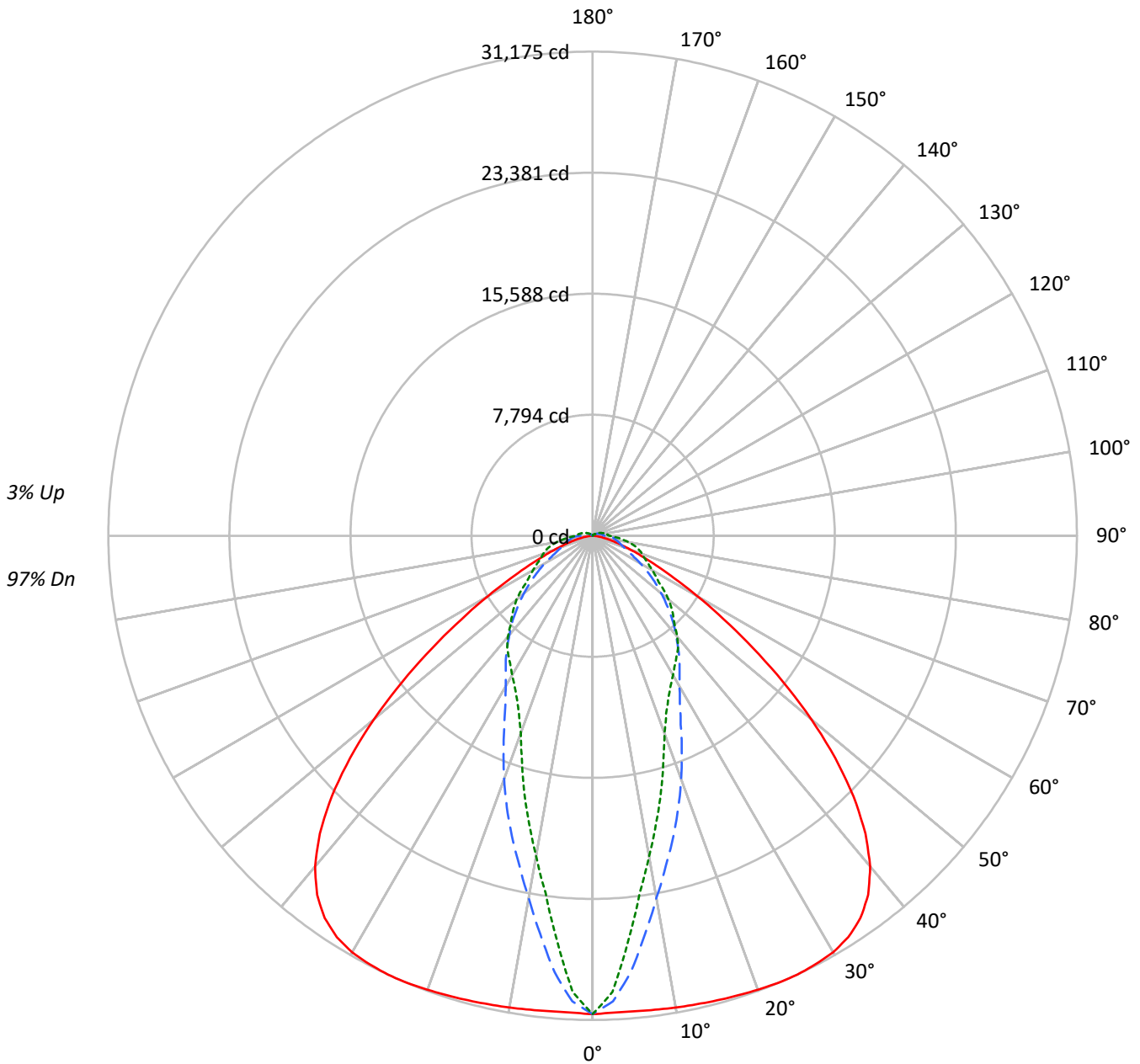
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45453.0 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48704	48704	48704
5°	48605	44374	41265
10°	49154	37395	33109
15°	50114	31996	27193
20°	51521	27067	22009
25°	53303	22415	19298
30°	55146	19320	17940
35°	56293	17618	17106
40°	55330	15924	16244
45°	50901	14400	15054
50°	42945	12733	14145
55°	32632	11163	12605
60°	22868	9585	12088
65°	15382	8268	11860
70°	10505	7775	12479
75°	7290	8042	13390
80°	5018	8949	13879
85°	2936	11295	14752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2592.4	5.7
10°-20°	6098.6	13.4
20°-30°	7644.5	16.8
30°-40°	8111.7	17.8
40°-50°	7334.2	16.1
50°-60°	5317.8	11.7
60°-70°	3337.2	7.3
70°-80°	2208.4	4.9
80°-90°	1272.3	2.8
90°-100°	616.4	1.4
100°-110°	425.4	0.9
110°-120°	262.5	0.6
120°-130°	127.1	0.3
130°-140°	58.5	0.1
140°-150°	31.9	0.1
150°-160°	13.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	16335.5	35.9
0°-40°	24447.2	53.8
0°-60°	37099.3	81.6
0°-90°	43917.2	96.6
90°-120°	1304.4	2.9
90°-150°	1521.9	3.3
90°-180°	1536.0	3.4
0°-180°	45453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30797	30797	30797	30797	30797	
5°	30735	29947	28188	26881	26204	###
15°	30970	25242	20049	17830	17021	8783
25°	31175	19518	13424	11915	11537	14402
35°	30058	12976	9743	9438	9435	18686
45°	23762	8219	7061	7231	7354	18102
55°	12580	5094	4608	4998	5176	11367
65°	4499	2954	2667	3418	3799	4682
75°	1389	1592	1791	2782	2949	1549
85°	243	660	1310	1823	1674	292
90°	0	276	759	1070	1079	16
95°	12	194	668	909	950	10
105°	23	129	487	645	662	24
115°	32	91	328	410	419	32
125°	35	47	167	211	208	31
135°	29	35	73	114	114	23
145°	35	38	44	67	64	21
155°	35	44	47	50	44	11
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830487

CATALOG NUMBER: OHBL-48HE-N-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30796.8	30796.8	30796.8	30796.8	30796.8
2.5°	30732.3	30556.5	30008.4	29674.2	29392.8
5°	30735.3	29946.8	28188.2	26880.9	26203.8
7.5°	30779.2	29026.5	25858.0	23949.8	23205.3
10°	30846.7	27886.3	23683.1	21648.9	20954.3
12.5°	30896.5	26602.5	21769.1	19679.3	18917.2
15°	30969.8	25242.4	20048.6	17829.7	17020.8
17.5°	31037.2	23961.6	18348.5	16030.1	15130.2
20°	31104.6	22581.0	16648.5	14259.7	13518.1
22.5°	31169.1	21124.3	14989.5	12885.0	12377.9
25°	31174.9	19518.0	13424.3	11914.8	11536.7
27.5°	31098.7	17853.2	12155.2	11102.9	10868.4
30°	30966.8	16238.2	11170.3	10516.7	10349.6
32.5°	30638.6	14590.9	10408.3	9951.0	9854.3
35°	30058.2	12975.9	9742.9	9438.1	9435.1
37.5°	29143.7	11542.6	9021.9	8969.1	9033.6
40°	27792.5	10288.1	8338.9	8479.6	8479.6
42.5°	25989.9	9197.7	7720.5	7864.1	7826.0
45°	23762.2	8218.7	7061.0	7231.0	7354.1
47.5°	21180.0	7357.0	6386.8	6715.1	6885.1
50°	18372.0	6536.3	5771.3	6190.4	6383.9
52.5°	15429.2	5777.2	5170.4	5651.1	5806.5
55°	12580.2	5094.2	4607.7	4997.5	5176.3
57.5°	10000.8	4443.5	4056.6	4425.9	4795.2
60°	7782.0	3883.7	3537.8	4065.4	4434.7
62.5°	5944.2	3385.4	3051.3	3728.3	4097.6
65°	4499.2	2954.5	2667.3	3417.6	3798.7
67.5°	3391.3	2582.3	2368.3	3191.9	3564.2
70°	2547.1	2221.8	2128.0	3051.3	3385.4
72.5°	1881.8	1890.5	1937.4	2928.1	3183.2
75°	1389.3	1591.6	1790.9	2781.6	2948.7
77.5°	993.6	1319.0	1659.0	2605.7	2664.3
80°	688.8	1075.7	1521.2	2374.2	2324.3
82.5°	430.9	861.7	1398.1	2119.2	1981.4
85°	243.3	659.5	1310.2	1823.1	1673.6
87.5°	108.4	492.4	1146.1	1421.6	1327.8
90°	0.0	275.5	759.1	1069.8	1078.6
92.5°	5.9	228.6	700.5	979.0	1008.3
95°	11.7	193.5	668.3	908.6	949.7
97.5°	14.7	170.0	627.3	844.2	879.3
100°	17.6	152.4	577.4	776.7	806.0
102.5°	20.5	140.7	530.5	706.4	729.8
105°	23.4	129.0	486.6	644.8	662.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.3	99.7	366.4	463.1	477.8
115°	32.2	90.9	328.3	410.4	419.1
117.5°	35.2	79.1	287.2	360.5	363.5
120°	35.2	70.3	246.2	307.8	307.8
122.5°	35.2	58.6	205.2	255.0	252.1
125°	35.2	46.9	167.1	211.0	208.1
127.5°	32.2	38.1	134.8	175.9	172.9
130°	32.2	38.1	108.4	149.5	149.5
132.5°	29.3	35.2	87.9	129.0	129.0
135°	29.3	35.2	73.3	114.3	114.3
137.5°	29.3	38.1	61.6	99.7	99.7
140°	29.3	35.2	52.8	87.9	87.9
142.5°	32.2	35.2	46.9	76.2	76.2
145°	35.2	38.1	44.0	67.4	64.5
147.5°	35.2	41.0	44.0	58.6	55.7
150°	35.2	44.0	44.0	52.8	49.8
152.5°	35.2	44.0	44.0	49.8	46.9
155°	35.2	44.0	46.9	49.8	44.0
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°	23.4	120.2	445.5	577.4	597.9
110°	26.4	108.4	407.4	515.9	536.4



(END OF REPORT)