

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: P830571

Luminaire Tested: **OHBL-48SE-NL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-NL-UNV-L730-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

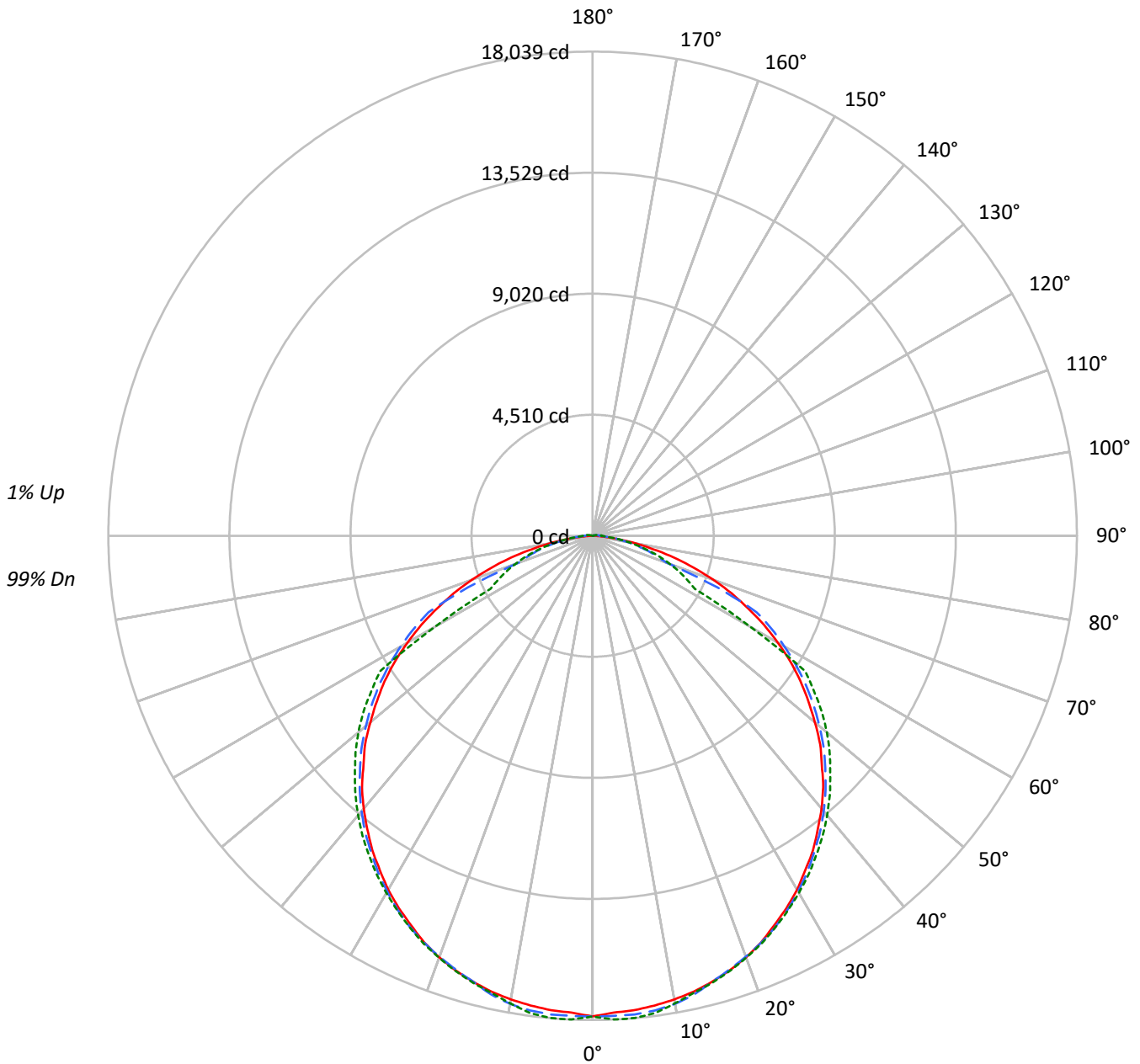
Lumens per Lamp: N/A
Luminaire Lumens: 50276.0 lumens
Efficiency: N/A
Efficacy: 174.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 288.8
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30585	30585	30585
5°	30416	30691	30923
10°	30424	30714	30675
15°	30419	30414	30480
20°	30378	30332	30406
25°	30170	30324	30348
30°	30030	30185	30303
35°	29836	30000	30281
40°	29578	29859	30300
45°	29151	29592	30237
50°	28712	29297	30265
55°	28163	28893	29932
60°	27220	28186	23302
65°	25753	27251	15683
70°	23819	14466	15221
75°	20776	13747	14535
80°	15977	12611	13321
85°	8064	12746	13052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1701.2	3.4
10°-20°	4871.1	9.7
20°-30°	7411.8	14.7
30°-40°	9011.7	17.9
40°-50°	9475.3	18.8
50°-60°	8652.1	17.2
60°-70°	5546.4	11.0
70°-80°	2620.1	5.2
80°-90°	726.5	1.4
90°-100°	192.4	0.4
100°-110°	52.7	0.1
110°-120°	14.6	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13984.1	27.8
0°-40°	22995.8	45.7
0°-60°	41123.3	81.8
0°-90°	50016.3	99.5
90°-120°	259.7	0.5
90°-150°	259.7	0.5
90°-180°	260.0	0.5
0°-180°	50276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17907	17907	17907	17907	17907	
5°	17740	17810	17901	17998	18036	###
15°	17203	17332	17200	17225	17238	4857
25°	16009	16034	16091	16116	16103	7387
35°	14309	14224	14388	14564	14523	8942
45°	12069	12047	12251	12540	12518	9328
55°	9458	9386	9703	10026	10052	8435
65°	6372	6372	6743	3868	3880	6317
75°	3148	3208	2083	2193	2203	3319
85°	412	522	650	704	666	608
90°	0	176	289	342	336	18
95°	9	91	208	280	280	5
105°	16	35	50	50	47	16
115°	16	22	31	22	3	11
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-48SE-NL-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17907.0	17907.0	17907.0	17907.0	17907.0
2.5°	17781.3	17841.1	17907.0	17991.8	18038.8
5°	17740.4	17809.5	17900.7	17998.2	18035.8
7.5°	17652.5	17749.7	17837.8	17907.0	17929.0
10°	17542.4	17658.8	17709.1	17702.8	17687.1
12.5°	17394.7	17517.5	17501.8	17429.3	17442.0
15°	17203.1	17331.8	17200.1	17225.1	17237.7
17.5°	16976.9	17102.6	16948.6	16998.8	17002.2
20°	16713.1	16807.2	16687.8	16728.7	16728.7
22.5°	16395.7	16461.6	16411.4	16439.6	16446.0
25°	16009.2	16034.1	16090.7	16115.9	16103.3
27.5°	15638.6	15607.0	15717.1	15776.6	15745.0
30°	15226.7	15176.5	15305.2	15402.7	15365.1
32.5°	14755.4	14724.1	14871.8	14987.9	14965.9
35°	14309.2	14224.4	14387.8	14563.7	14522.8
37.5°	13781.3	13731.1	13916.4	14102.0	14080.0
40°	13266.0	13181.2	13391.8	13611.6	13589.7
42.5°	12713.1	12612.3	12841.9	13106.0	13080.7
45°	12068.7	12046.8	12251.0	12540.1	12518.2
47.5°	11497.2	11387.1	11672.9	11952.6	11977.9
50°	10805.6	10765.0	11025.8	11365.2	11390.1
52.5°	10130.3	10102.0	10375.2	10717.8	10761.7
55°	9457.7	9385.5	9702.8	10026.5	10051.8
57.5°	8738.4	8662.9	8986.6	9338.6	9391.8
60°	7968.3	7896.1	8251.1	8578.1	8821.6
62.5°	7198.5	7148.3	7519.2	5326.0	4292.4
65°	6372.2	6372.2	6742.8	3867.9	3880.5
67.5°	5599.4	5549.2	5027.6	3475.0	3475.0
70°	4769.7	4788.7	2896.8	3044.9	3047.9
72.5°	3937.1	4006.3	2501.3	2620.4	2626.7
75°	3148.3	3208.2	2083.1	2193.3	2202.6
77.5°	2312.7	1778.4	1674.6	1759.8	1762.8
80°	1624.4	1121.7	1282.1	1363.6	1354.3
82.5°	948.8	785.4	939.4	999.3	996.0
85°	411.5	521.6	650.4	703.9	666.0
87.5°	131.7	323.7	405.2	436.8	433.5
90°	0.0	176.0	289.1	342.3	336.3
92.5°	0.0	138.1	251.5	314.4	317.4
95°	9.3	91.2	207.6	279.8	279.8
97.5°	6.3	65.9	147.7	219.9	226.2
100°	6.3	53.2	97.5	157.0	160.3
102.5°	15.6	43.9	59.5	100.5	103.8
105°	15.6	34.6	50.2	50.2	47.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.0	25.3	34.6	25.3	3.0
115°	15.6	22.0	31.3	22.0	3.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	15.6	31.3	43.9	28.3	9.3
110°	19.0	28.3	37.6	25.3	3.0



(END OF REPORT)