

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: P830127

Luminaire Tested: **OHBL-24SE-N-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830127
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-24SE-N-UNV-L730-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

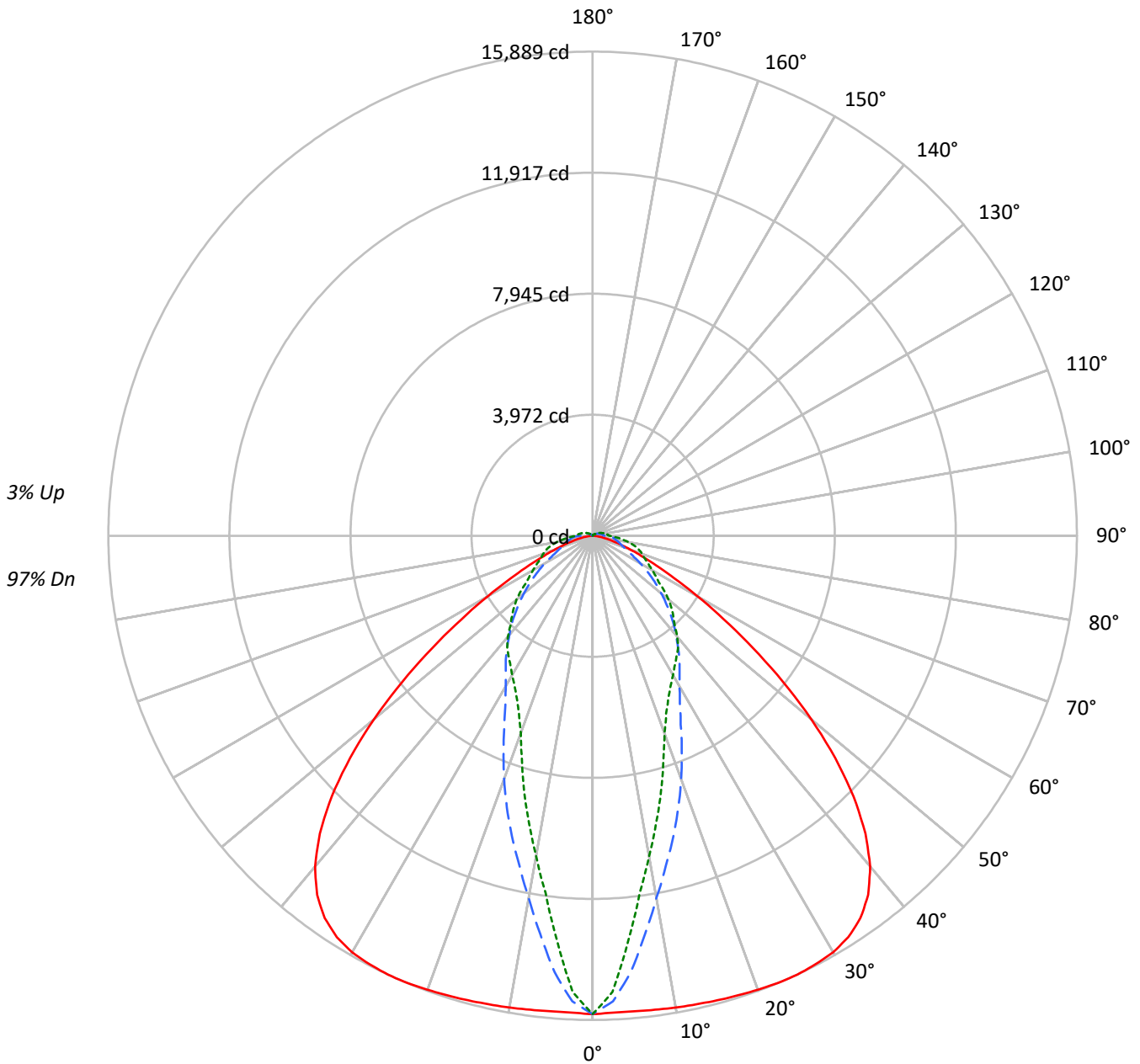
Lumens per Lamp: N/A
Luminaire Lumens: 23166.0 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
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°	26809	26809	26809
5°	26754	24414	22699
10°	27056	20565	18201
15°	27585	17588	14939
20°	28360	14871	12083
25°	29340	12309	10587
30°	30354	10604	9835
35°	30986	9664	9370
40°	30456	8730	8890
45°	28018	7889	8230
50°	23639	6970	7725
55°	17962	6105	6874
60°	12588	5235	6581
65°	8467	4509	6443
70°	5783	4232	6759
75°	4013	4364	7222
80°	2763	4833	7434
85°	1616	6046	7800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1321.3	5.7
10°-20°	3108.3	13.4
20°-30°	3896.2	16.8
30°-40°	4134.3	17.8
40°-50°	3738.0	16.1
50°-60°	2710.3	11.7
60°-70°	1700.9	7.3
70°-80°	1125.6	4.9
80°-90°	648.5	2.8
90°-100°	314.2	1.4
100°-110°	216.8	0.9
110°-120°	133.8	0.6
120°-130°	64.8	0.3
130°-140°	29.8	0.1
140°-150°	16.3	0.1
150°-160°	7.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8325.7	35.9
0°-40°	12460.0	53.8
0°-60°	18908.4	81.6
0°-90°	22383.3	96.6
90°-120°	664.8	2.9
90°-150°	775.7	3.3
90°-180°	783.0	3.4
0°-180°	23166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15696	15696	15696	15696	15696	
5°	15665	15263	14367	13700	13355	###
15°	15784	12865	10218	9087	8675	4476
25°	15889	9948	6842	6073	5880	7340
35°	15320	6613	4966	4810	4809	9523
45°	12111	4189	3599	3685	3748	9226
55°	6412	2596	2348	2547	2638	5793
65°	2293	1506	1359	1742	1936	2386
75°	708	811	913	1418	1503	789
85°	124	336	668	929	853	149
90°	0	140	387	545	550	8
95°	6	99	341	463	484	5
105°	12	66	248	329	338	12
115°	16	46	167	209	214	16
125°	18	24	85	108	106	16
135°	15	18	37	58	58	12
145°	18	19	22	34	33	11
155°	18	22	24	25	22	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15696.2	15696.2	15696.2	15696.2	15696.2
2.5°	15663.3	15573.7	15294.3	15124.0	14980.6
5°	15664.8	15263.0	14366.6	13700.4	13355.3
7.5°	15687.2	14793.9	13179.0	12206.5	11827.1
10°	15721.6	14212.8	12070.6	11033.8	10679.8
12.5°	15747.0	13558.5	11095.0	10029.9	9641.5
15°	15784.3	12865.3	10218.1	9087.3	8675.0
17.5°	15818.7	12212.5	9351.7	8170.0	7711.4
20°	15853.1	11508.9	8485.2	7267.7	6889.8
22.5°	15885.9	10766.4	7639.7	6567.1	6308.7
25°	15888.9	9947.7	6842.0	6072.6	5879.9
27.5°	15850.1	9099.2	6195.1	5658.8	5539.3
30°	15782.8	8276.1	5693.2	5360.0	5274.9
32.5°	15615.5	7436.5	5304.8	5071.7	5022.4
35°	15319.7	6613.4	4965.7	4810.3	4808.8
37.5°	14853.7	5882.9	4598.2	4571.3	4604.1
40°	14165.0	5243.5	4250.1	4321.8	4321.8
42.5°	13246.2	4687.8	3934.9	4008.1	3988.7
45°	12110.9	4188.8	3598.8	3685.4	3748.1
47.5°	10794.8	3749.6	3255.2	3422.5	3509.1
50°	9363.6	3331.4	2941.5	3155.1	3253.7
52.5°	7863.8	2944.4	2635.2	2880.2	2959.4
55°	6411.7	2596.4	2348.4	2547.1	2638.2
57.5°	5097.1	2264.7	2067.5	2255.8	2444.0
60°	3966.3	1979.4	1803.1	2072.0	2260.2
62.5°	3029.6	1725.4	1555.1	1900.2	2088.4
65°	2293.1	1505.8	1359.4	1741.9	1936.1
67.5°	1728.4	1316.1	1207.1	1626.8	1816.6
70°	1298.2	1132.4	1084.6	1555.1	1725.4
72.5°	959.1	963.6	987.5	1492.4	1622.4
75°	708.1	811.2	912.8	1417.7	1502.8
77.5°	506.4	672.2	845.5	1328.1	1357.9
80°	351.1	548.3	775.3	1210.0	1184.6
82.5°	219.6	439.2	712.6	1080.1	1009.9
85°	124.0	336.1	667.8	929.2	853.0
87.5°	55.3	251.0	584.1	724.5	676.7
90°	0.0	140.4	386.9	545.3	549.7
92.5°	3.0	116.5	357.0	499.0	513.9
95°	6.0	98.6	340.6	463.1	484.0
97.5°	7.5	86.6	319.7	430.2	448.2
100°	9.0	77.7	294.3	395.9	410.8
102.5°	10.5	71.7	270.4	360.0	372.0
105°	12.0	65.7	248.0	328.7	337.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.9	50.8	186.7	236.0	243.5
115°	16.4	46.3	167.3	209.1	213.6
117.5°	17.9	40.3	146.4	183.7	185.2
120°	17.9	35.9	125.5	156.9	156.9
122.5°	17.9	29.9	104.6	130.0	128.5
125°	17.9	23.9	85.2	107.6	106.1
127.5°	16.4	19.4	68.7	89.6	88.1
130°	16.4	19.4	55.3	76.2	76.2
132.5°	14.9	17.9	44.8	65.7	65.7
135°	14.9	17.9	37.3	58.3	58.3
137.5°	14.9	19.4	31.4	50.8	50.8
140°	14.9	17.9	26.9	44.8	44.8
142.5°	16.4	17.9	23.9	38.8	38.8
145°	17.9	19.4	22.4	34.4	32.9
147.5°	17.9	20.9	22.4	29.9	28.4
150°	17.9	22.4	22.4	26.9	25.4
152.5°	17.9	22.4	22.4	25.4	23.9
155°	17.9	22.4	23.9	25.4	22.4
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°	12.0	61.2	227.1	294.3	304.8
110°	13.4	55.3	207.6	262.9	273.4



(END OF REPORT)