

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: P827739

Luminaire Tested: **OHBL-24HE-NL-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827739  
REPORT IS A COMBINATION OF REPORTS P826075 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-NL-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

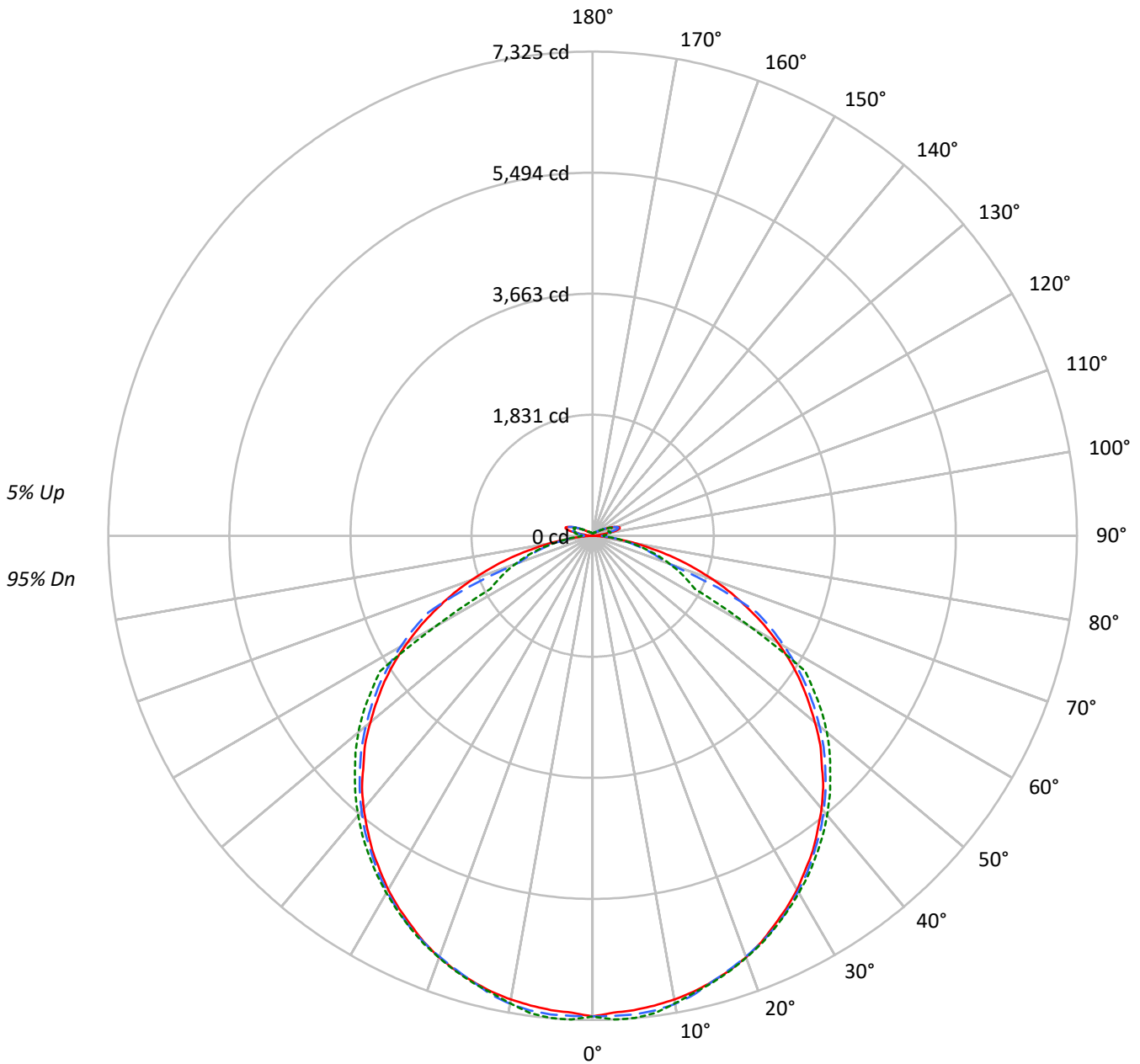
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21421.9 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 141.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	114	114	114	114	108	108	108	103	103	103	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	80																			
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11500	11500	11500
5°	11381	11481	11600
10°	11328	11431	11480
15°	11269	11260	11380
20°	11195	11169	11323
25°	11057	11101	11271
30°	10940	10982	11222
35°	10798	10839	11178
40°	10626	10706	11145
45°	10384	10516	11076
50°	10125	10303	11032
55°	9810	10033	10845
60°	9336	9630	8378
65°	8652	9113	5580
70°	7770	4692	5335
75°	6471	4249	4974
80°	4568	3568	4355
85°	1854	2882	3769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.8	3.2
10°-20°	1978.0	9.2
20°-30°	3009.7	14.0
30°-40°	3659.3	17.1
40°-50°	3847.6	18.0
50°-60°	3513.3	16.4
60°-70°	2252.2	10.5
70°-80°	1063.9	5.0
80°-90°	297.6	1.4
90°-100°	174.3	0.8
100°-110°	356.0	1.7
110°-120°	293.3	1.4
120°-130°	137.7	0.6
130°-140°	68.9	0.3
140°-150°	40.1	0.2
150°-160°	23.4	0.1
160°-170°	12.1	0.1
170°-180°	3.7	0.0
0°-30°	5678.4	26.5
0°-40°	9337.7	43.6
0°-60°	16698.7	78.0
0°-90°	20312.4	94.8
90°-120°	823.6	3.8
90°-150°	1070.3	5.0
90°-180°	1110.0	5.2
0°-180°	21421.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7271	7271	7271	7271	7271	
5°	7204	7232	7269	7308	7324	685
15°	6986	7038	6984	6994	7000	1972
25°	6501	6511	6534	6544	6539	3000
35°	5810	5776	5842	5914	5897	3631
45°	4901	4892	4975	5092	5083	3788
55°	3840	3811	3940	4071	4082	3425
65°	2588	2588	2738	1571	1576	2565
75°	1278	1303	846	891	894	1348
85°	167	212	264	286	270	247
90°	2	86	137	164	165	9
95°	24	84	154	207	222	68
105°	424	427	373	270	249	402
115°	297	300	304	298	286	295
125°	142	148	151	150	150	133
135°	82	85	88	89	89	66
145°	61	62	63	64	65	38
155°	48	49	50	51	51	23
165°	42	42	43	43	43	12
175°	38	38	38	38	38	4
180°	37	37	37	37	37	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7271.4	7271.4	7271.4	7271.4	7271.4
2.5°	7220.4	7244.6	7271.4	7305.9	7324.9
5°	7203.7	7231.8	7268.9	7308.4	7323.7
7.5°	7168.1	7207.5	7243.3	7271.4	7280.3
10°	7123.4	7170.6	7191.0	7188.4	7182.1
12.5°	7063.4	7113.2	7106.9	7077.4	7082.5
15°	6985.5	7037.8	6984.3	6994.5	6999.6
17.5°	6893.7	6944.8	6882.2	6902.6	6904.0
20°	6786.6	6824.8	6776.3	6792.9	6792.9
22.5°	6657.7	6684.4	6664.1	6675.5	6678.1
25°	6500.8	6510.9	6533.8	6544.1	6538.9
27.5°	6350.3	6337.4	6382.1	6406.3	6393.5
30°	6183.0	6162.7	6214.9	6254.5	6239.2
32.5°	5991.6	5978.9	6038.9	6086.0	6077.1
35°	5810.5	5776.0	5842.3	5913.8	5897.2
37.5°	5596.1	5575.7	5650.9	5726.3	5717.4
40°	5386.8	5352.4	5437.9	5527.2	5518.2
42.5°	5162.3	5121.4	5214.6	5321.9	5311.6
45°	4900.7	4891.8	4974.7	5092.1	5083.2
47.5°	4668.6	4623.9	4739.9	4853.6	4863.8
50°	4387.8	4371.3	4477.2	4615.0	4625.1
52.5°	4113.5	4102.0	4213.0	4352.1	4369.9
55°	3840.4	3811.1	3940.0	4071.4	4081.7
57.5°	3548.3	3517.7	3649.1	3792.1	3813.6
60°	3235.7	3206.3	3350.5	3483.3	2770.0
62.5°	2923.1	2902.6	3053.3	2162.7	1743.0
65°	2587.6	2587.6	2738.0	1570.6	1575.8
67.5°	2273.7	2253.3	2041.5	1411.1	1411.1
70°	1936.8	1944.5	1176.3	1236.4	1237.6
72.5°	1598.7	1626.8	1015.7	1064.1	1066.6
75°	1278.5	1302.7	845.9	890.6	894.4
77.5°	939.1	722.2	680.0	714.6	715.8
80°	659.6	455.5	520.6	553.7	549.9
82.5°	385.3	319.0	381.5	405.8	404.4
85°	167.1	211.8	264.1	285.8	270.5
87.5°	53.5	131.4	164.5	177.3	176.0
90°	2.4	86.0	136.8	164.1	164.9
92.5°	7.3	74.7	132.8	171.3	176.5
95°	24.0	83.9	153.8	207.3	221.9
97.5°	111.7	145.6	194.2	247.8	258.3
100°	225.7	261.7	239.3	272.3	277.7
102.5°	361.2	367.9	279.6	272.0	269.3
105°	424.3	427.1	372.8	270.1	248.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	345.6	350.6	351.9	335.2	312.4
115°	297.4	299.9	304.5	298.3	285.7
117.5°	244.1	247.4	249.8	247.4	245.7
120°	204.5	209.4	211.0	207.7	207.7
122.5°	172.2	176.2	178.6	176.2	177.0
125°	142.3	147.9	151.2	149.5	150.4
127.5°	118.8	123.7	129.3	128.5	128.5
130°	103.5	106.7	110.7	111.6	111.6
132.5°	92.2	94.6	97.8	98.6	99.4
135°	82.4	84.9	88.1	88.9	88.9
137.5°	76.0	77.6	80.0	80.8	81.6
140°	69.5	71.9	73.6	74.4	74.4
142.5°	64.7	66.3	67.9	68.7	69.5
145°	60.6	62.2	63.0	63.9	64.7
147.5°	56.6	58.2	59.8	59.8	60.6
150°	54.2	55.0	55.8	56.6	56.6
152.5°	50.9	51.7	52.5	53.4	53.4
155°	48.5	49.3	50.1	50.9	50.9
157.5°	46.1	47.7	47.7	48.5	48.5
160°	44.5	45.3	46.1	46.1	46.1
162.5°	42.8	43.6	43.6	44.5	44.5
165°	42.0	42.0	42.8	42.8	42.8
167.5°	40.4	40.4	41.2	41.2	41.2
170°	39.6	39.6	39.6	40.4	40.4
172.5°	38.8	38.8	38.8	38.8	38.8
175°	38.0	38.0	38.0	38.0	38.0
177.5°	37.2	38.0	38.0	38.0	38.0
180°	37.2	37.2	37.2	37.2	37.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	426.7	434.6	406.7	313.0	253.6
110°	392.4	401.9	387.9	349.8	299.5



(END OF REPORT)