

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: P827733

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827733  
REPORT IS A COMBINATION OF REPORTS P826073 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-MFL-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

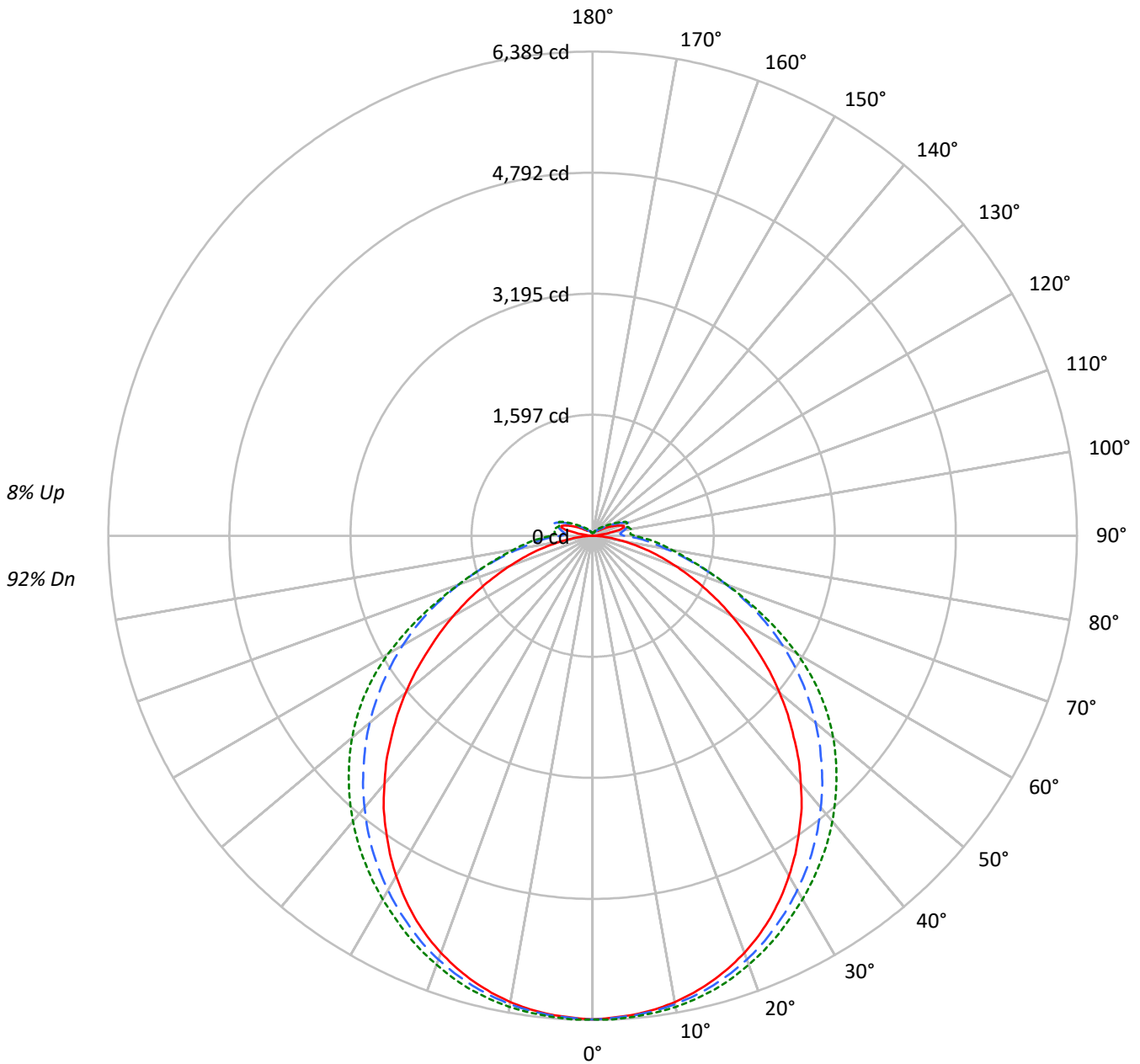
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20108.4 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	69	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24																			
10	52	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

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

	0°	45°	90°
0°	10094	10094	10094
5°	9987	9998	10071
10°	9875	9910	10061
15°	9723	9805	10035
20°	9534	9676	9977
25°	9297	9514	9919
30°	8984	9340	9864
35°	8615	9154	9826
40°	8181	8940	9796
45°	7677	8706	9747
50°	7130	8471	9683
55°	6470	8182	9534
60°	5795	7842	9157
65°	5062	7408	8480
70°	4272	6854	7757
75°	3469	6214	7377
80°	2491	5752	7727
85°	1404	5979	9687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.8	3.0
10°-20°	1735.0	8.6
20°-30°	2623.9	13.0
30°-40°	3150.0	15.7
40°-50°	3253.5	16.2
50°-60°	2927.1	14.6
60°-70°	2204.9	11.0
70°-80°	1331.4	6.6
80°-90°	653.7	3.3
90°-100°	370.3	1.8
100°-110°	491.1	2.4
110°-120°	379.2	1.9
120°-130°	189.7	0.9
130°-140°	96.3	0.5
140°-150°	53.4	0.3
150°-160°	28.3	0.1
160°-170°	12.1	0.1
170°-180°	3.7	0.0
0°-30°	4963.7	24.7
0°-40°	8113.7	40.3
0°-60°	14294.3	71.1
0°-90°	18484.3	91.9
90°-120°	1240.6	6.2
90°-150°	1579.9	7.9
90°-180°	1624.0	8.1
0°-180°	20108.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6382	6382	6382	6382	6382	
5°	6342	6359	6351	6376	6368	602
15°	6086	6115	6144	6195	6201	1716
25°	5558	5619	5698	5787	5801	2556
35°	4752	4863	5063	5216	5247	2971
45°	3750	3940	4269	4502	4550	2895
55°	2657	2932	3377	3632	3676	2382
65°	1621	1952	2390	2509	2480	1611
75°	764	1097	1384	1420	1406	815
85°	159	420	694	789	803	184
90°	2	179	416	525	548	12
95°	28	158	366	472	500	73
105°	429	477	524	475	464	406
115°	304	327	398	432	433	304
125°	155	165	215	242	247	144
135°	93	99	121	145	151	74
145°	76	76	79	92	98	48
155°	64	66	66	65	66	27
165°	42	42	43	43	43	12
175°	38	38	38	38	38	4
180°	37	37	37	37	37	



TEST NUMBER: P827733

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L930-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6382.5	6382.5	6382.5	6382.5	6382.5
2.5°	6363.8	6379.4	6370.0	6390.3	6388.7
5°	6341.9	6359.1	6351.2	6376.2	6368.5
7.5°	6304.4	6323.1	6321.6	6349.7	6346.5
10°	6249.7	6270.0	6276.3	6313.7	6313.7
12.5°	6174.8	6201.3	6216.9	6262.2	6263.8
15°	6085.7	6115.4	6143.5	6195.1	6201.3
17.5°	5977.9	6015.5	6054.5	6113.8	6121.7
20°	5856.1	5898.2	5951.4	6013.8	6023.2
22.5°	5715.5	5765.5	5834.2	5907.6	5918.5
25°	5557.8	5618.6	5698.3	5787.3	5801.4
27.5°	5378.1	5448.4	5556.2	5656.2	5668.7
30°	5182.9	5265.6	5400.0	5518.7	5539.0
32.5°	4976.7	5072.0	5237.5	5370.3	5398.4
35°	4751.7	4862.6	5062.6	5215.7	5246.9
37.5°	4529.9	4651.7	4878.2	5053.2	5090.7
40°	4270.6	4422.1	4681.5	4875.1	4920.4
42.5°	4027.0	4191.0	4484.6	4695.5	4739.3
45°	3750.4	3939.5	4269.1	4501.8	4550.2
47.5°	3491.2	3695.8	4061.3	4301.9	4351.8
50°	3217.8	3442.8	3839.5	4091.0	4142.5
52.5°	2944.4	3186.5	3609.9	3870.7	3919.1
55°	2657.0	2932.0	3377.1	3631.8	3675.5
57.5°	2389.9	2680.4	3138.1	3380.3	3406.8
60°	2125.9	2427.4	2894.5	3106.9	3116.3
62.5°	1868.2	2185.3	2644.5	2813.2	2800.7
65°	1621.4	1952.5	2389.9	2508.7	2480.5
67.5°	1383.9	1726.0	2129.1	2205.6	2168.1
70°	1159.1	1505.8	1876.0	1915.0	1880.7
72.5°	960.6	1296.5	1619.8	1652.6	1627.7
75°	763.9	1096.6	1383.9	1419.9	1405.9
77.5°	579.5	902.8	1166.8	1213.7	1216.9
80°	417.1	726.4	977.8	1051.2	1060.6
82.5°	274.9	563.9	820.1	913.8	927.9
85°	159.3	420.2	693.6	788.9	802.9
87.5°	68.7	303.0	557.7	643.6	660.7
90°	2.4	178.6	416.1	524.9	548.5
92.5°	12.0	154.5	371.3	477.9	499.1
95°	28.0	157.8	366.3	471.7	500.4
97.5°	118.5	212.5	391.9	488.0	510.1
100°	232.5	321.3	423.0	497.5	514.1
102.5°	364.2	421.9	450.7	484.3	491.1
105°	428.8	477.1	524.3	474.7	463.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	350.4	382.5	456.6	484.3	476.8
115°	303.5	326.9	398.0	431.6	432.9
117.5°	258.2	278.6	343.5	375.5	378.5
120°	218.6	236.0	293.7	321.8	328.0
122.5°	186.2	198.1	252.0	279.3	284.8
125°	154.8	165.1	215.2	241.7	247.2
127.5°	129.7	137.7	184.0	211.3	216.0
130°	114.4	119.2	157.6	184.9	189.6
132.5°	103.1	108.6	136.9	162.6	169.8
135°	93.4	98.9	120.9	145.2	151.4
137.5°	86.9	91.7	106.6	129.3	136.3
140°	82.0	86.0	95.5	114.9	121.2
142.5°	78.7	80.3	85.1	103.1	108.6
145°	76.2	76.3	78.7	92.0	97.5
147.5°	72.2	73.8	75.4	81.7	87.2
150°	69.8	72.2	71.4	73.8	78.5
152.5°	66.5	69.0	68.1	67.4	70.6
155°	64.1	66.5	65.7	65.0	66.5
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°	431.2	478.2	540.3	501.4	457.5
110°	395.7	440.4	507.0	517.6	484.2



(END OF REPORT)