

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: P827751

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827751  
REPORT IS A COMBINATION OF REPORTS P826079 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-24SE-MFL-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

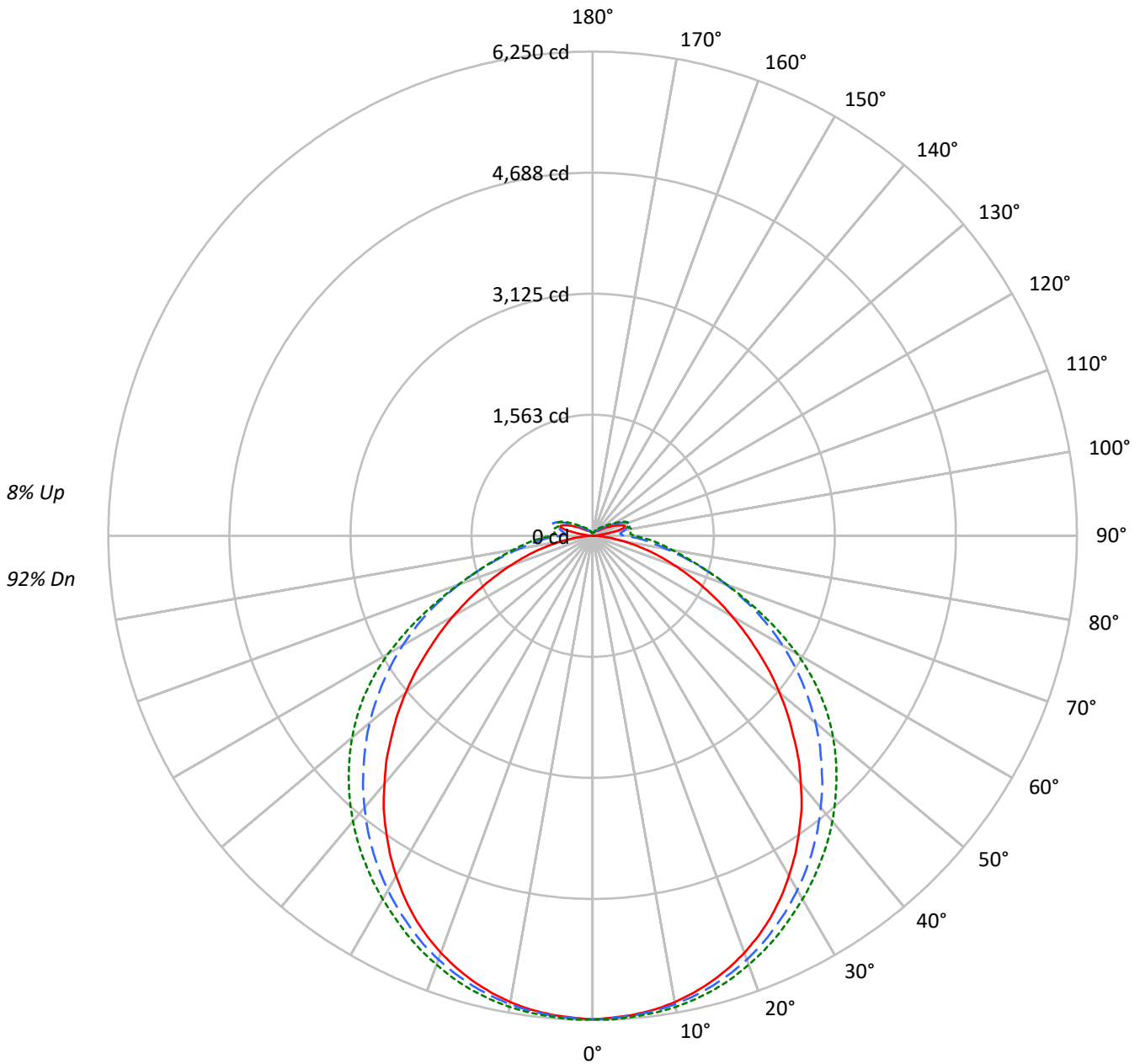
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19692.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 146.4  
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	92	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	68	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	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	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	26	36	30	26	24																			
10	51	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°	10664	10664	10664
5°	10544	10558	10640
10°	10419	10460	10629
15°	10252	10344	10601
20°	10046	10203	10540
25°	9789	10028	10479
30°	9453	9839	10421
35°	9057	9638	10381
40°	8593	9406	10349
45°	8056	9154	10297
50°	7473	8899	10230
55°	6772	8587	10072
60°	6055	8221	9675
65°	5278	7754	8960
70°	4441	7160	8195
75°	3591	6473	7793
80°	2561	5962	8164
85°	1425	6142	10234



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.6	3.0
10°-20°	1697.2	8.6
20°-30°	2566.7	13.0
30°-40°	3081.4	15.6
40°-50°	3182.6	16.2
50°-60°	2863.3	14.5
60°-70°	2156.9	11.0
70°-80°	1302.4	6.6
80°-90°	639.5	3.2
90°-100°	364.3	1.9
100°-110°	487.6	2.5
110°-120°	377.2	1.9
120°-130°	188.5	1.0
130°-140°	95.7	0.5
140°-150°	53.1	0.3
150°-160°	28.2	0.1
160°-170°	12.1	0.1
170°-180°	3.7	0.0
0°-30°	4855.5	24.7
0°-40°	7936.9	40.3
0°-60°	13982.8	71.0
0°-90°	18081.6	91.8
90°-120°	1229.2	6.2
90°-150°	1566.4	8.0
90°-180°	1610.0	8.2
0°-180°	19692.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6243	6243	6243	6243	6243	
5°	6204	6220	6213	6237	6230	589
15°	5953	5982	6010	6060	6066	1678
25°	5437	5496	5574	5661	5675	2501
35°	4648	4757	4952	5102	5132	2906
45°	3669	3854	4176	4404	4451	2832
55°	2599	2868	3304	3553	3595	2330
65°	1586	1910	2338	2454	2426	1576
75°	747	1073	1354	1389	1375	797
85°	156	411	678	772	785	180
90°	2	175	408	514	537	12
95°	28	155	360	464	492	73
105°	429	476	520	470	459	406
115°	303	326	396	428	430	303
125°	154	165	214	240	245	144
135°	93	99	120	144	150	74
145°	76	76	78	91	97	48
155°	64	66	65	65	66	27
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°	6243.4	6243.4	6243.4	6243.4	6243.4
2.5°	6225.1	6240.3	6231.2	6251.0	6249.5
5°	6203.6	6220.4	6212.8	6237.3	6229.7
7.5°	6167.0	6185.4	6183.8	6211.3	6208.2
10°	6113.5	6133.4	6139.5	6176.2	6176.2
12.5°	6040.2	6066.1	6081.4	6125.7	6127.2
15°	5953.1	5982.1	6009.6	6060.1	6066.1
17.5°	5847.6	5884.3	5922.5	5980.6	5988.2
20°	5728.5	5769.7	5821.7	5882.8	5891.9
22.5°	5590.9	5639.8	5707.1	5778.9	5789.6
25°	5436.6	5496.2	5574.1	5661.2	5675.0
27.5°	5260.9	5329.7	5435.1	5532.9	5545.1
30°	5069.9	5150.9	5282.3	5398.5	5418.3
32.5°	4868.2	4961.4	5123.4	5253.3	5280.8
35°	4648.2	4756.6	4952.3	5102.0	5132.5
37.5°	4431.2	4550.4	4771.9	4943.0	4979.7
40°	4177.5	4325.8	4579.4	4768.8	4813.2
42.5°	3939.2	4099.6	4386.9	4593.2	4636.0
45°	3668.7	3853.6	4176.0	4403.7	4451.1
47.5°	3415.0	3615.3	3972.8	4208.1	4257.0
50°	3147.6	3367.7	3755.8	4001.8	4052.3
52.5°	2880.3	3117.1	3531.2	3786.4	3833.8
55°	2599.1	2868.0	3303.5	3552.6	3595.4
57.5°	2337.9	2622.1	3069.7	3306.6	3332.6
60°	2079.6	2374.5	2831.3	3039.2	3048.4
62.5°	1827.5	2137.6	2586.9	2751.9	2739.7
65°	1586.0	1910.0	2337.9	2453.9	2426.5
67.5°	1353.8	1688.4	2082.7	2157.5	2120.8
70°	1133.8	1473.0	1835.2	1873.3	1839.7
72.5°	939.7	1268.3	1584.5	1616.6	1592.2
75°	747.2	1072.7	1353.8	1389.0	1375.2
77.5°	566.9	883.2	1141.4	1187.3	1190.3
80°	408.0	710.5	956.5	1028.4	1037.5
82.5°	268.9	551.6	802.2	893.9	907.6
85°	155.8	411.0	678.4	771.6	785.4
87.5°	67.3	296.4	545.5	629.5	646.3
90°	2.4	175.0	407.5	514.0	537.1
92.5°	11.9	151.6	363.8	468.4	489.3
95°	27.9	155.4	359.9	463.6	491.9
97.5°	118.3	210.5	386.3	480.9	502.7
100°	232.2	319.5	418.2	491.2	507.5
102.5°	364.0	420.3	446.4	478.7	485.4
105°	428.6	475.7	520.5	469.8	458.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	350.1	381.5	454.0	480.8	473.2
115°	303.2	326.2	395.7	428.4	429.7
117.5°	257.9	277.9	341.4	372.6	375.6
120°	218.2	235.3	292.0	319.3	325.4
122.5°	185.9	197.6	250.4	277.1	282.4
125°	154.5	164.7	213.8	239.7	245.1
127.5°	129.5	137.4	182.8	209.5	214.1
130°	114.1	118.9	156.6	183.3	187.9
132.5°	102.8	108.3	136.0	161.3	168.2
135°	93.1	98.6	120.2	144.0	150.0
137.5°	86.7	91.3	106.0	128.2	135.2
140°	81.7	85.7	95.0	114.1	120.2
142.5°	78.4	80.0	84.7	102.3	107.8
145°	75.9	76.0	78.3	91.3	96.8
147.5°	71.9	73.5	75.1	81.2	86.6
150°	69.4	71.8	71.1	73.4	78.0
152.5°	66.2	68.5	67.8	67.1	70.2
155°	63.8	66.1	65.4	64.7	66.2
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°	431.0	477.0	537.1	497.1	453.0
110°	395.4	439.3	504.1	513.7	480.1



(END OF REPORT)