

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: P828507

Luminaire Tested: **OHB-24SE-MFL-UNV-L950-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828507  
REPORT IS A COMBINATION OF REPORTS P826043 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: OHB-24SE-MFL-UNV-L950-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

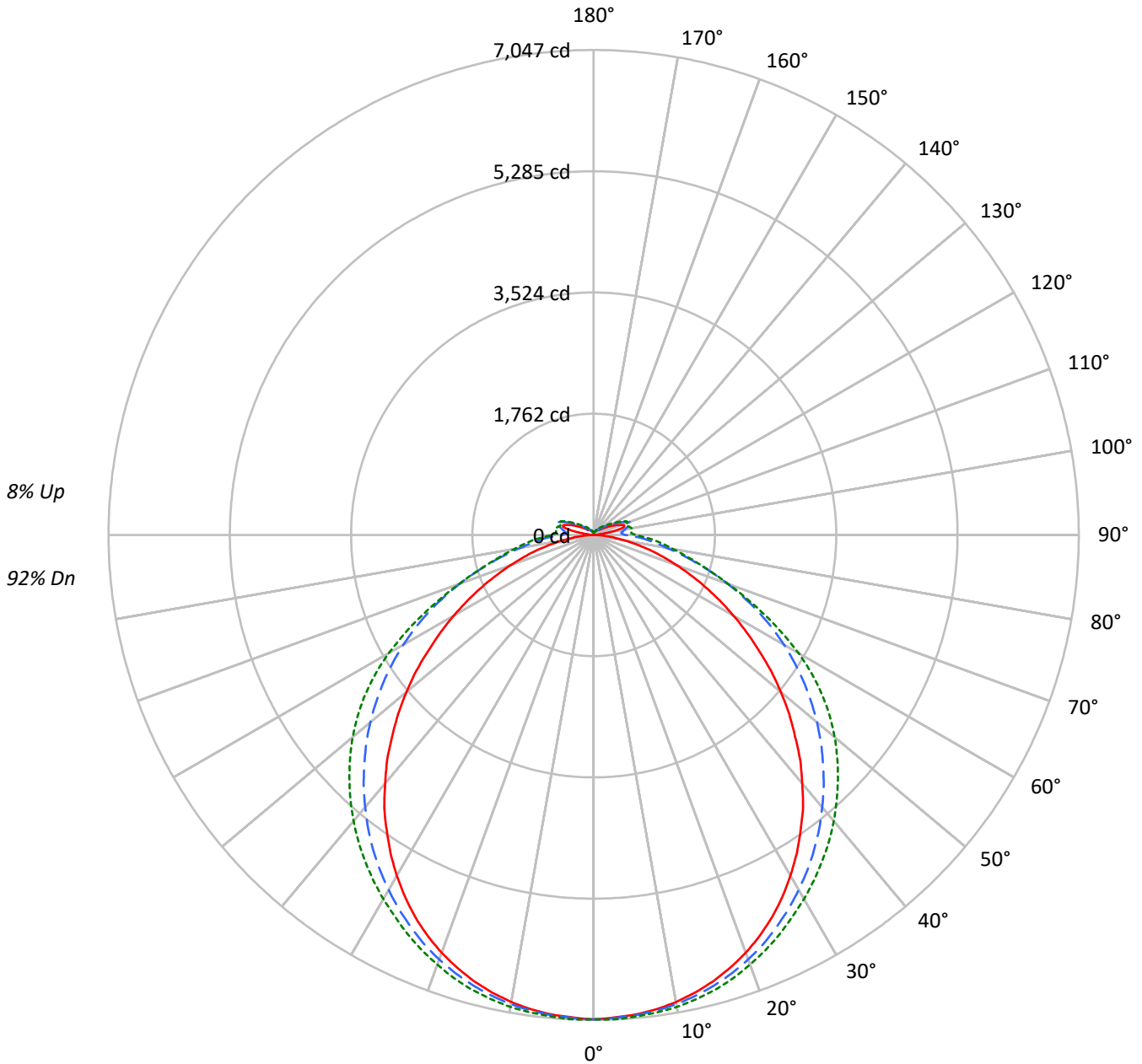
Lumens per Lamp: N/A  
Luminaire Lumens: 22152.9 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 155  
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	114	114	114	114	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	81	68	60	53	78	67	58	52	63	56	51	60	54	49	57	52	47	45																			
5	74	61	52	45	71	60	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	37	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	41	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°	23518	23518	23518
5°	23254	23224	23379
10°	22979	22950	23270
15°	22609	22637	23122
20°	22156	22269	22900
25°	21589	21827	22675
30°	20848	21352	22450
35°	19976	20850	22258
40°	18952	20277	22071
45°	17767	19658	21829
50°	16481	19024	21534
55°	14936	18261	21023
60°	13354	17369	19981
65°	11640	16249	18252
70°	9795	14842	16381
75°	7919	13211	15142
80°	5646	11878	15115
85°	3142	11704	17095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.1	3.0
10°-20°	1913.8	8.6
20°-30°	2894.3	13.1
30°-40°	3474.6	15.7
40°-50°	3588.7	16.2
50°-60°	3228.7	14.6
60°-70°	2432.2	11.0
70°-80°	1468.6	6.6
80°-90°	721.0	3.3
90°-100°	405.8	1.8
100°-110°	532.5	2.4
110°-120°	410.4	1.9
120°-130°	205.5	0.9
130°-140°	104.3	0.5
140°-150°	57.8	0.3
150°-160°	30.6	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	5475.2	24.7
0°-40°	8949.8	40.4
0°-60°	15767.3	71.2
0°-90°	20389.1	92.0
90°-120°	1348.7	6.1
90°-150°	1716.2	7.7
90°-180°	1764.0	8.0
0°-180°	22152.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7040	7040	7040	7040	7040	
5°	6995	7014	7006	7033	7025	665
15°	6713	6746	6776	6833	6840	1893
25°	6130	6198	6286	6384	6399	2820
35°	5241	5364	5584	5753	5788	3277
45°	4137	4345	4709	4966	5019	3194
55°	2931	3234	3725	4006	4054	2628
65°	1788	2154	2636	2767	2736	1777
75°	843	1210	1527	1566	1551	899
85°	176	464	765	870	886	203
90°	3	197	458	578	604	13
95°	30	173	402	518	549	79
105°	462	515	569	517	505	437
115°	327	353	431	468	470	327
125°	167	178	233	262	269	155
135°	101	107	131	158	165	80
145°	82	82	85	100	106	52
155°	69	72	71	70	72	30
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7040.2	7040.2	7040.2	7040.2	7040.2
2.5°	7019.5	7036.8	7026.4	7048.8	7047.1
5°	6995.4	7014.3	7005.7	7033.3	7024.7
7.5°	6954.1	6974.7	6973.0	7004.0	7000.6
10°	6893.7	6916.2	6923.0	6964.4	6964.4
12.5°	6811.1	6840.4	6857.6	6907.6	6909.2
15°	6712.8	6745.6	6776.5	6833.4	6840.4
17.5°	6594.0	6635.3	6678.4	6743.8	6752.5
20°	6459.5	6506.1	6564.7	6633.6	6643.9
22.5°	6304.5	6359.6	6435.5	6516.4	6528.5
25°	6130.5	6197.7	6285.6	6383.7	6399.2
27.5°	5932.3	6009.9	6128.7	6239.0	6252.8
30°	5716.9	5808.2	5956.4	6087.4	6109.8
32.5°	5489.5	5594.6	5777.2	5923.7	5954.7
35°	5241.4	5363.7	5584.3	5753.1	5787.5
37.5°	4996.7	5131.1	5380.9	5573.9	5615.3
40°	4710.7	4877.8	5163.8	5377.5	5427.5
42.5°	4441.9	4622.8	4946.7	5179.4	5227.6
45°	4136.9	4345.4	4709.0	4965.7	5019.1
47.5°	3850.9	4076.7	4479.8	4745.2	4800.3
50°	3549.4	3797.5	4235.2	4512.6	4569.4
52.5°	3247.9	3514.9	3981.9	4269.6	4323.1
55°	2930.8	3234.1	3725.1	4006.0	4054.2
57.5°	2636.2	2956.6	3461.5	3728.6	3757.9
60°	2345.0	2677.5	3192.7	3427.1	3437.4
62.5°	2060.7	2410.4	2917.1	3103.1	3089.3
65°	1788.4	2153.8	2636.2	2767.2	2736.1
67.5°	1526.6	1903.9	2348.5	2432.9	2391.5
70°	1278.4	1661.0	2069.4	2112.4	2074.5
72.5°	1059.7	1430.1	1786.8	1823.0	1795.4
75°	842.6	1209.6	1526.6	1566.2	1550.7
77.5°	639.2	995.9	1287.1	1338.8	1342.2
80°	460.0	801.2	1078.6	1159.6	1169.9
82.5°	303.3	622.0	904.6	1007.9	1023.4
85°	175.7	463.5	765.0	870.1	885.6
87.5°	75.8	334.3	615.1	709.9	728.9
90°	2.6	196.6	458.5	578.4	604.2
92.5°	13.0	169.9	408.6	525.9	549.2
95°	30.3	172.8	402.1	517.8	549.0
97.5°	127.7	231.2	428.6	533.9	558.2
100°	250.3	347.8	461.2	543.1	561.2
102.5°	392.0	455.8	490.1	527.8	535.5
105°	461.6	515.0	568.6	516.8	505.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	377.3	412.6	494.4	525.2	517.4
115°	326.8	352.6	431.1	468.0	469.8
117.5°	278.0	300.5	372.0	407.3	410.7
120°	235.4	254.5	318.2	349.3	356.1
122.5°	200.7	213.6	273.1	303.3	309.3
125°	166.8	178.1	233.3	262.5	268.6
127.5°	139.9	148.5	199.5	229.5	234.8
130°	123.4	128.6	170.8	200.9	206.1
132.5°	111.2	117.2	148.2	176.8	184.5
135°	100.8	106.8	130.9	157.6	164.6
137.5°	93.8	98.9	115.4	140.3	148.2
140°	88.6	92.9	103.2	124.8	131.7
142.5°	85.0	86.8	92.0	111.8	117.8
145°	82.4	82.4	85.0	99.7	105.7
147.5°	78.1	79.8	81.6	88.4	94.5
150°	75.5	78.1	77.2	79.8	84.9
152.5°	72.0	74.6	73.7	72.9	76.3
155°	69.4	72.0	71.1	70.3	72.0
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	464.2	515.8	585.3	544.9	497.8
110°	425.9	475.1	549.0	561.6	525.8



(END OF REPORT)