

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: P828629

Luminaire Tested: **OHBL-24HE-A-UNV-L950-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828629  
REPORT IS A COMBINATION OF REPORTS P826299 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-A-UNV-L950-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

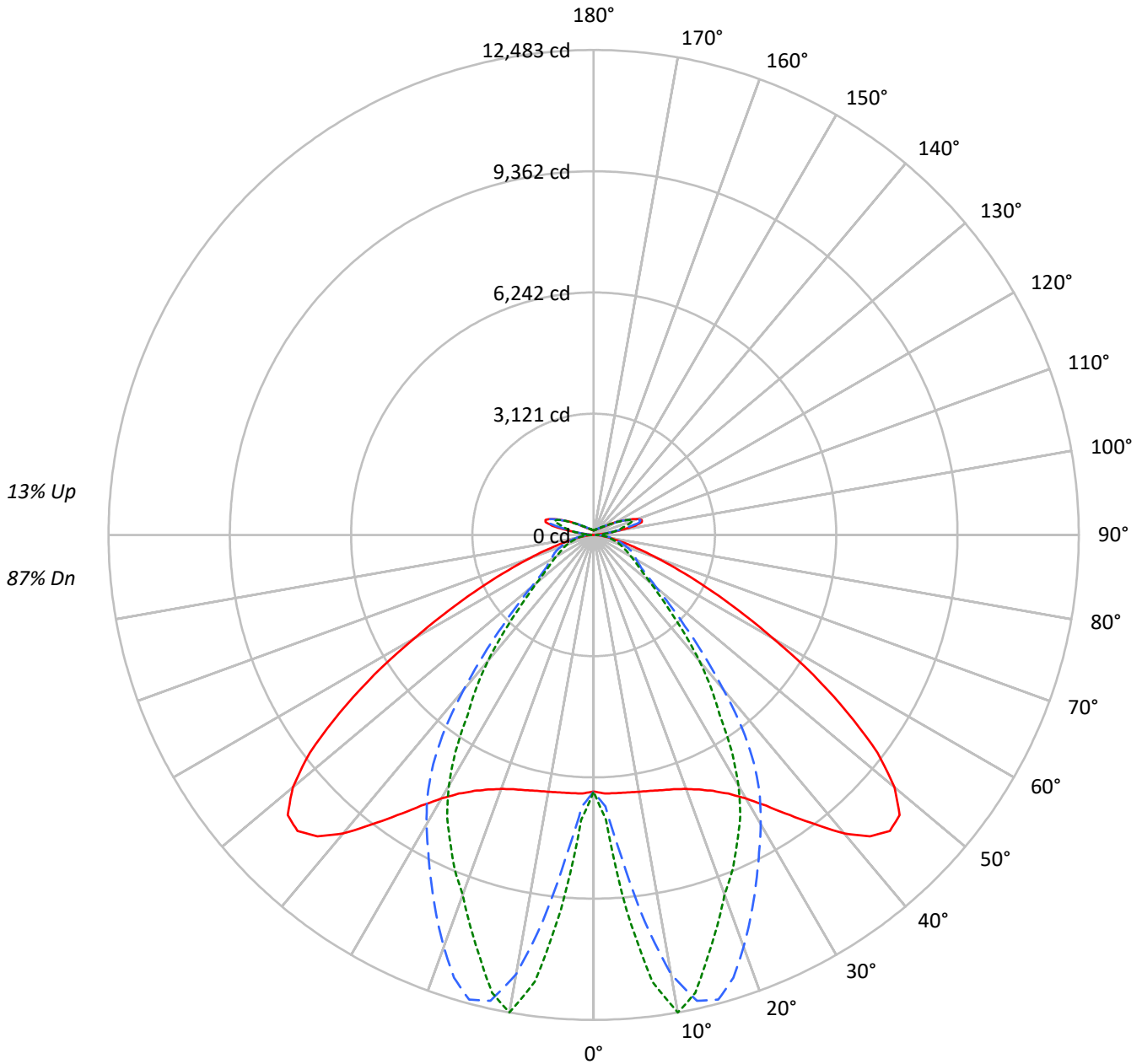
Lumens per Lamp: N/A  
Luminaire Lumens: 24312.4 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 161.8  
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					20					
RC	80					70					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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87				
1	108	104	100	97	104	100	97	94	94	91	89	88	86	84	82	81	79	76				76				
2	99	92	87	82	96	89	84	80	84	80	76	79	76	73	74	72	69	67				67				
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58				58				
4	85	75	67	61	82	72	66	60	68	63	58	65	60	56	61	57	54	52				52				
5	79	68	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46				46				
6	73	61	54	48	71	60	53	47	57	51	46	54	49	45	52	47	43	41				41				
7	68	56	48	43	66	55	48	42	52	46	41	50	44	40	48	43	39	37				37				
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	34				34				
9	60	48	40	35	58	47	40	35	45	38	34	43	37	33	41	36	32	31				31				
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28				28				

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

	0°	45°	90°
0°	10447	10447	10447
5°	10507	13145	15314
10°	10607	18132	19892
15°	10867	19761	18257
20°	11324	18344	16316
25°	12159	16505	14924
30°	13568	14870	13271
35°	15963	13022	10575
40°	19211	9923	8416
45°	22059	6766	5990
50°	22389	4645	4431
55°	19407	3659	3620
60°	14521	3427	3257
65°	9975	3444	3084
70°	6396	3328	2987
75°	3863	3090	2858
80°	2289	2728	2949
85°	1116	2364	2734



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	862.4	3.5
10°-20°	3043.8	12.5
20°-30°	4485.2	18.4
30°-40°	4713.3	19.4
40°-50°	3606.5	14.8
50°-60°	2177.8	9.0
60°-70°	1328.9	5.5
70°-80°	725.4	3.0
80°-90°	261.3	1.1
90°-100°	239.2	1.0
100°-110°	1083.4	4.5
110°-120°	896.7	3.7
120°-130°	424.4	1.7
130°-140°	214.9	0.9
140°-150°	125.6	0.5
150°-160°	73.7	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	8391.5	34.5
0°-40°	13104.7	53.9
0°-60°	18889.0	77.7
0°-90°	21204.7	87.2
90°-120°	2219.3	9.1
90°-150°	2984.1	12.3
90°-180°	3108.0	12.8
0°-180°	24312.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6606	6606	6606	6606	6606	
5°	6672	7158	8350	9324	9684	638
15°	6802	10594	12382	11554	11283	1934
25°	7269	12296	9885	8950	8729	3397
35°	8805	9847	7202	5997	5647	5585
45°	10776	5619	3317	2919	2796	8142
55°	7970	1905	1510	1400	1395	7042
65°	3195	1206	1111	951	902	3274
75°	851	750	688	568	545	979
85°	127	233	274	250	227	156
90°	7	43	55	63	64	12
95°	54	108	144	183	196	201
105°	1284	1282	1205	896	810	1221
115°	896	883	890	896	888	905
125°	441	456	467	459	450	415
135°	261	267	274	276	277	206
145°	190	194	198	201	202	121
155°	153	156	158	160	160	72
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6605.9	6605.9	6605.9	6605.9	6605.9
2.5°	6659.9	6727.9	6995.9	7274.1	7341.8
5°	6672.1	7158.2	8350.5	9324.1	9683.9
7.5°	6686.3	7855.3	10028.9	11220.9	11602.5
10°	6713.2	8736.9	11483.2	12339.0	12483.1
12.5°	6746.6	9670.8	12283.4	12252.3	12070.4
15°	6802.2	10594.5	12382.0	11554.3	11282.6
17.5°	6860.5	11376.1	11952.0	10794.6	10558.0
20°	6955.4	11956.3	11283.2	10119.2	9850.5
22.5°	7092.2	12275.3	10581.8	9508.5	9333.1
25°	7268.7	12295.9	9885.2	8949.6	8728.7
27.5°	7505.2	12010.6	9217.6	8402.1	8168.7
30°	7827.0	11464.5	8597.2	7741.8	7452.3
32.5°	8264.1	10678.4	7957.6	6944.6	6620.0
35°	8804.6	9846.7	7201.6	5997.4	5646.7
37.5°	9394.3	8923.3	6284.1	5158.6	4954.4
40°	10028.9	7971.8	5196.6	4373.7	4227.5
42.5°	10524.0	6937.3	4186.5	3634.6	3479.1
45°	10776.4	5618.7	3317.4	2919.1	2796.5
47.5°	10678.2	4361.5	2629.9	2319.4	2282.6
50°	10104.5	3220.5	2105.3	1910.7	1895.4
52.5°	9207.7	2400.4	1739.0	1618.6	1592.3
55°	7969.5	1905.3	1510.1	1399.6	1395.4
57.5°	6691.1	1618.6	1370.8	1285.2	1255.5
60°	5327.4	1443.3	1265.0	1168.4	1108.2
62.5°	4175.9	1320.6	1187.5	1056.3	999.9
65°	3195.0	1206.2	1111.0	950.7	902.2
67.5°	2381.8	1097.1	1017.5	839.6	811.3
70°	1735.3	985.3	911.0	746.7	724.3
72.5°	1236.8	873.6	804.5	659.5	634.8
75°	850.7	750.1	688.1	567.7	544.7
77.5°	573.9	624.0	573.3	484.7	475.1
80°	383.3	494.9	463.7	410.7	404.8
82.5°	232.6	359.2	365.9	334.0	317.9
85°	126.6	232.6	274.2	249.9	226.6
87.5°	49.6	128.9	188.9	169.7	159.8
90°	7.0	42.6	54.8	62.6	63.5
92.5°	21.7	52.2	66.9	83.5	88.7
95°	53.9	107.8	143.5	182.6	196.5
97.5°	325.2	349.5	303.4	362.6	383.4
100°	698.2	716.4	555.6	559.9	577.3
102.5°	1093.8	1108.5	876.4	725.1	699.0
105°	1284.2	1281.6	1205.0	896.4	809.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1052.0	1054.6	1045.1	1041.6	1013.8
115°	895.5	883.4	890.3	896.4	887.7
117.5°	766.0	757.3	764.2	760.8	751.2
120°	644.3	644.3	653.0	640.8	633.8
122.5°	533.8	546.0	552.1	543.4	532.1
125°	440.8	456.5	466.9	459.1	450.4
127.5°	378.2	383.4	395.6	391.2	391.2
130°	325.2	332.1	341.7	343.4	341.7
132.5°	288.7	295.6	304.3	306.9	309.5
135°	260.8	266.9	273.9	276.5	277.4
137.5°	238.2	243.4	248.7	253.0	253.9
140°	219.1	224.3	229.5	233.0	233.0
142.5°	203.5	208.7	213.0	215.6	215.6
145°	189.5	193.9	198.2	200.8	201.7
147.5°	179.1	182.6	186.9	187.8	188.7
150°	169.5	172.2	175.6	177.4	178.2
152.5°	160.8	163.5	166.9	167.8	168.7
155°	153.0	155.6	158.2	160.0	160.0
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1296.3	1299.0	1267.6	1116.4	965.1
110°	1196.4	1207.7	1187.7	1138.1	1069.4



(END OF REPORT)