

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: P828337

Luminaire Tested: **OHBL-24HE-N-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828337  
REPORT IS A COMBINATION OF REPORTS P826242 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-N-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

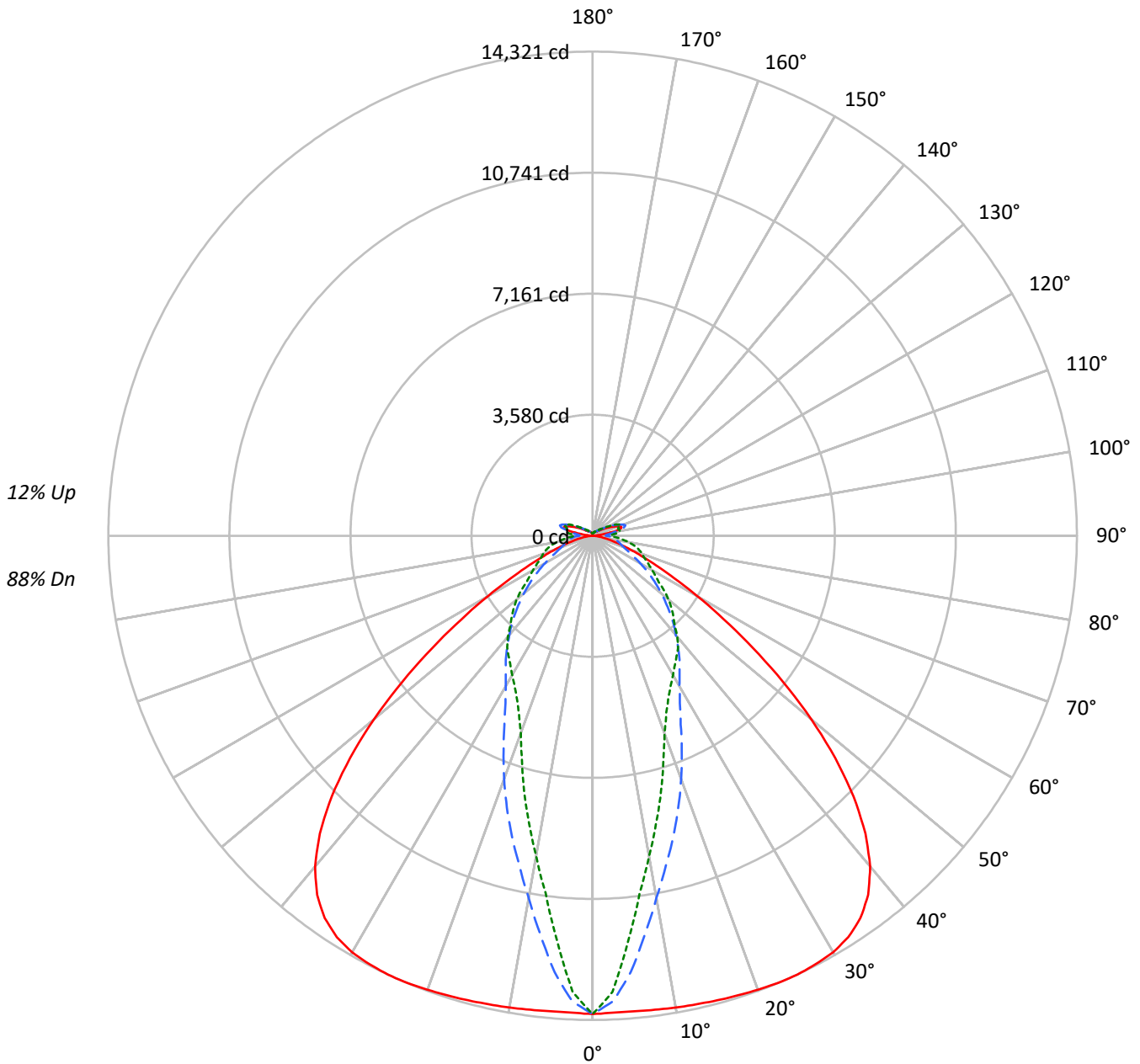
Lumens per Lamp: N/A  
Luminaire Lumens: 22984.0 lumens  
Efficiency: N/A  
Efficacy: 152.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 150.4  
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75																			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

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

	0°	45°	90°
0°	22373	22373	22373
5°	22234	20384	19036
10°	22390	17178	15338
15°	22729	14698	12652
20°	23263	12434	10286
25°	23955	10297	9061
30°	24659	8875	8466
35°	25034	8093	8117
40°	24457	7315	7755
45°	22344	6615	7236
50°	18700	5849	6855
55°	14072	5128	6168
60°	9744	4403	5986
65°	6453	3798	5966
70°	4313	3571	6414
75°	2898	3694	7107
80°	1889	4111	7780
85°	985	5188	9276



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1190.9	5.2
10°-20°	2801.5	12.2
20°-30°	3511.6	15.3
30°-40°	3726.3	16.2
40°-50°	3369.1	14.7
50°-60°	2442.8	10.6
60°-70°	1533.0	6.7
70°-80°	1014.5	4.4
80°-90°	589.8	2.6
90°-100°	484.7	2.1
100°-110°	895.2	3.9
110°-120°	720.9	3.1
120°-130°	346.4	1.5
130°-140°	171.0	0.7
140°-150°	98.2	0.4
150°-160°	55.1	0.2
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	7504.0	32.6
0°-40°	11230.3	48.9
0°-60°	17042.2	74.1
0°-90°	20179.5	87.8
90°-120°	2100.9	9.1
90°-150°	2716.5	11.8
90°-180°	2804.0	12.2
0°-180°	22984.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14147	14147	14147	14147	14147	
5°	14119	13757	12949	12348	12037	###
15°	14226	11596	9210	8190	7819	4035
25°	14321	8966	6167	5473	5300	6616
35°	13808	5961	4476	4336	4334	8584
45°	10916	3776	3244	3322	3378	8315
55°	5779	2340	2117	2296	2378	5221
65°	2067	1357	1225	1570	1745	2151
75°	638	731	823	1278	1354	711
85°	112	303	602	837	769	134
90°	4	156	390	545	556	10
95°	52	185	456	616	661	148
105°	883	922	957	819	784	838
115°	616	650	758	794	793	621
125°	310	331	392	412	408	290
135°	187	194	217	238	239	148
145°	142	147	152	164	164	90
155°	117	123	126	128	125	52
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



TEST NUMBER: P828337

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14147.1	14147.1	14147.1	14147.1	14147.1
2.5°	14117.5	14036.7	13785.0	13631.4	13502.2
5°	14118.8	13756.6	12948.8	12348.3	12037.2
7.5°	14139.1	13333.9	11878.4	11001.8	10659.8
10°	14170.0	12810.1	10879.3	9944.9	9625.7
12.5°	14192.9	12220.4	10000.1	9040.0	8690.0
15°	14226.5	11595.6	9209.7	8190.4	7818.8
17.5°	14257.5	11007.2	8428.7	7363.8	6950.3
20°	14288.4	10373.0	7647.8	6550.5	6209.8
22.5°	14318.1	9703.9	6885.7	5919.0	5686.1
25°	14320.8	8966.0	6166.7	5473.3	5299.6
27.5°	14285.8	8201.2	5583.7	5100.3	4992.6
30°	14225.2	7459.3	5131.3	4831.1	4754.3
32.5°	14074.4	6702.6	4781.2	4571.2	4526.8
35°	13807.8	5960.7	4475.6	4335.6	4334.2
37.5°	13387.7	5302.3	4144.4	4120.1	4149.8
40°	12767.0	4726.0	3830.6	3895.3	3895.3
42.5°	11939.0	4225.2	3546.6	3612.5	3595.0
45°	10915.6	3775.5	3243.5	3321.7	3378.2
47.5°	9729.4	3379.6	2933.9	3084.7	3162.8
50°	8439.5	3002.5	2651.2	2843.7	2932.5
52.5°	7087.7	2653.8	2375.1	2596.0	2667.3
55°	5778.9	2340.1	2116.6	2295.7	2377.8
57.5°	4594.1	2041.2	1863.5	2033.1	2202.8
60°	3574.8	1784.0	1625.2	1867.5	2037.2
62.5°	2730.6	1555.2	1401.6	1712.7	1882.3
65°	2066.8	1357.2	1225.3	1570.0	1745.0
67.5°	1557.9	1186.2	1087.9	1466.3	1637.3
70°	1170.1	1020.6	977.5	1401.6	1555.2
72.5°	864.4	868.5	890.0	1345.1	1462.2
75°	638.3	731.1	822.7	1277.7	1354.5
77.5°	456.5	605.9	762.1	1197.0	1223.9
80°	316.4	494.1	698.8	1090.6	1067.8
82.5°	197.9	395.9	642.3	973.5	910.2
85°	111.7	302.9	601.8	837.4	768.8
87.5°	49.8	226.2	526.4	653.0	609.9
90°	4.3	156.2	389.6	545.3	555.5
92.5°	17.5	144.2	384.4	538.4	563.1
95°	51.5	185.4	456.5	615.7	660.6
97.5°	240.6	331.1	560.3	717.3	762.2
100°	488.0	579.5	676.5	791.5	812.8
102.5°	751.0	801.9	781.0	806.1	810.0
105°	882.8	921.7	957.3	818.8	784.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	716.0	758.8	867.4	891.8	870.7
115°	616.4	649.5	758.5	794.5	793.4
117.5°	530.9	551.9	651.0	683.8	686.0
120°	442.2	467.9	556.5	580.4	575.2
122.5°	373.5	394.7	467.2	488.4	481.8
125°	310.0	331.1	392.4	411.7	407.8
127.5°	263.4	277.4	330.6	350.3	348.1
130°	231.3	240.9	282.0	301.7	302.6
132.5°	205.6	214.4	244.7	267.0	266.1
135°	187.4	193.5	217.1	237.7	239.4
137.5°	172.6	179.2	195.2	215.4	215.4
140°	159.5	165.7	178.1	196.1	196.9
142.5°	149.5	154.4	163.3	178.5	178.5
145°	142.2	147.0	152.3	164.0	163.5
147.5°	134.4	140.6	143.6	152.2	150.8
150°	128.3	134.1	136.7	141.6	141.1
152.5°	122.2	128.0	130.6	134.2	132.9
155°	117.0	122.8	125.9	128.1	125.4
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	886.3	934.2	1015.9	899.1	802.4
110°	819.8	865.4	963.6	946.5	870.7



(END OF REPORT)