

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: P828339

Luminaire Tested: **OHBL-24HE-NL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828339
REPORT IS A COMBINATION OF REPORTS P826075 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-NL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

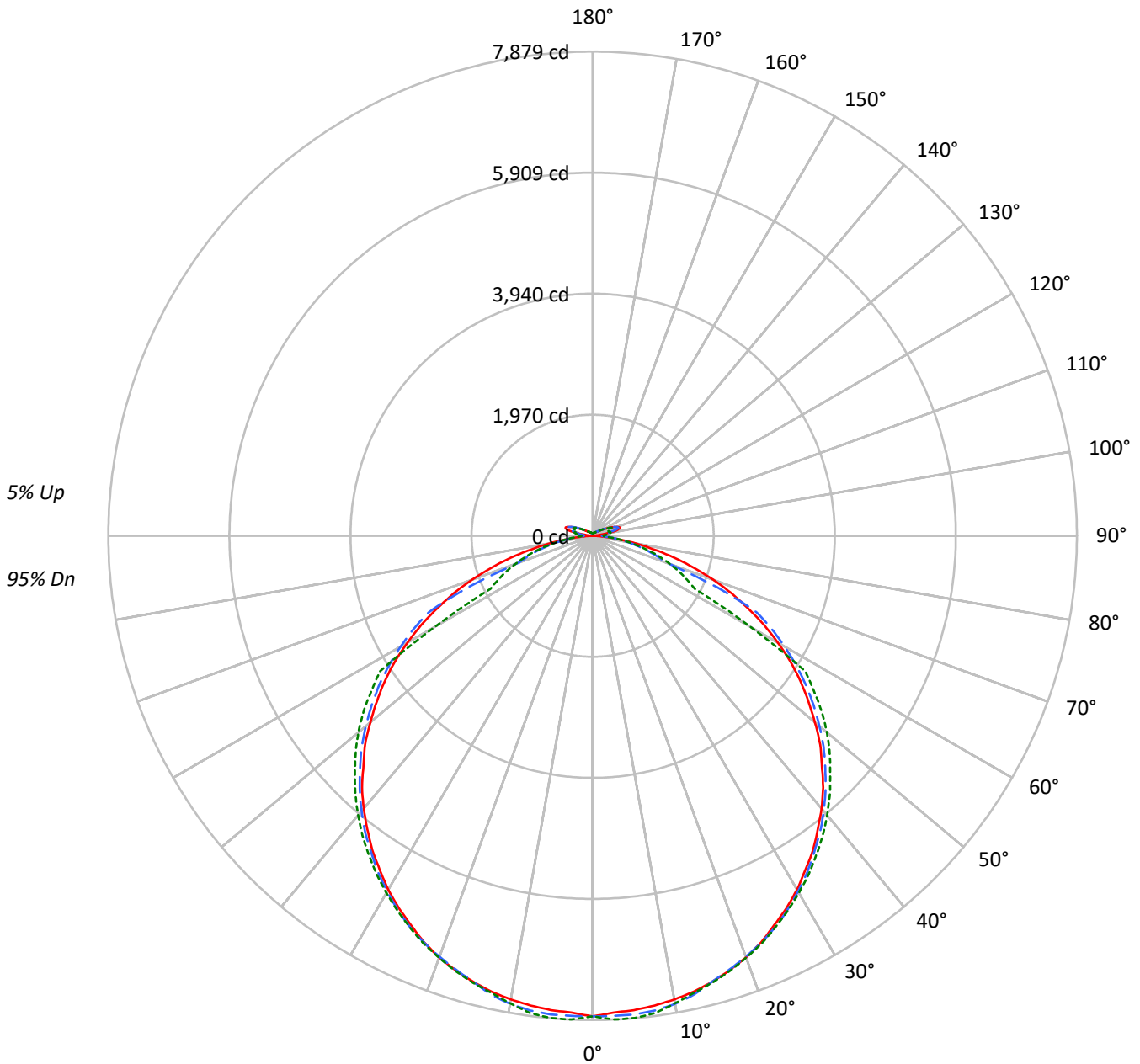
Lumens per Lamp: N/A
Luminaire Lumens: 23041.4 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 141.4
Input Voltage (V): NR
Input Current (A_{in}): 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	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	80																			
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12369	12369	12369
5°	12241	12349	12476
10°	12185	12295	12348
15°	12121	12111	12240
20°	12042	12013	12179
25°	11893	11940	12123
30°	11767	11812	12071
35°	11614	11659	12023
40°	11429	11515	11987
45°	11169	11311	11913
50°	10891	11082	11866
55°	10552	10791	11664
60°	10042	10358	9011
65°	9306	9802	6002
70°	8357	5046	5738
75°	6959	4571	5350
80°	4914	3838	4684
85°	1994	3099	4053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.0	3.2
10°-20°	2127.5	9.2
20°-30°	3237.2	14.0
30°-40°	3936.0	17.1
40°-50°	4138.5	18.0
50°-60°	3778.9	16.4
60°-70°	2422.5	10.5
70°-80°	1144.4	5.0
80°-90°	320.1	1.4
90°-100°	187.5	0.8
100°-110°	382.9	1.7
110°-120°	315.5	1.4
120°-130°	148.1	0.6
130°-140°	74.1	0.3
140°-150°	43.1	0.2
150°-160°	25.2	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	6107.7	26.5
0°-40°	10043.7	43.6
0°-60°	17961.1	78.0
0°-90°	21848.0	94.8
90°-120°	885.9	3.8
90°-150°	1151.2	5.0
90°-180°	1193.0	5.2
0°-180°	23041.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7821	7821	7821	7821	7821	
5°	7748	7779	7818	7861	7877	737
15°	7514	7570	7512	7523	7529	2121
25°	6992	7003	7028	7039	7033	3226
35°	6250	6213	6284	6361	6343	3906
45°	5271	5262	5351	5477	5468	4074
55°	4131	4099	4238	4379	4390	3684
65°	2783	2783	2945	1689	1695	2759
75°	1375	1401	910	958	962	1450
85°	180	228	284	307	291	266
90°	3	92	147	176	177	10
95°	26	90	166	223	239	74
105°	456	459	401	291	268	432
115°	320	323	328	321	307	318
125°	153	159	163	161	162	143
135°	89	91	95	96	96	71
145°	65	67	68	69	70	41
155°	52	53	54	55	55	24
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°	7821.1	7821.1	7821.1	7821.1	7821.1
2.5°	7766.2	7792.3	7821.1	7858.2	7878.6
5°	7748.3	7778.6	7818.4	7860.9	7877.3
7.5°	7710.0	7752.4	7790.9	7821.1	7830.7
10°	7661.9	7712.8	7734.7	7731.9	7725.1
12.5°	7597.4	7650.9	7644.2	7612.5	7618.0
15°	7513.7	7569.9	7512.3	7523.3	7528.8
17.5°	7414.9	7469.8	7402.5	7424.4	7425.9
20°	7299.7	7340.8	7288.6	7306.5	7306.5
22.5°	7161.0	7189.8	7167.9	7180.2	7183.0
25°	6992.2	7003.1	7027.8	7038.8	7033.3
27.5°	6830.4	6816.5	6864.6	6890.6	6876.9
30°	6650.5	6628.6	6684.7	6727.3	6710.9
32.5°	6444.6	6430.9	6495.4	6546.1	6536.6
35°	6249.7	6212.7	6284.0	6360.9	6343.0
37.5°	6019.2	5997.3	6078.1	6159.2	6149.7
40°	5794.1	5757.0	5849.0	5945.1	5935.4
42.5°	5552.6	5508.6	5608.9	5724.2	5713.2
45°	5271.2	5261.6	5350.8	5477.1	5467.5
47.5°	5021.6	4973.5	5098.2	5220.5	5231.5
50°	4719.5	4701.8	4815.7	4963.9	4974.8
52.5°	4424.5	4412.2	4531.5	4681.2	4700.3
55°	4130.7	4099.3	4237.8	4379.2	4390.3
57.5°	3816.6	3783.6	3925.0	4078.7	4102.0
60°	3480.3	3448.7	3603.8	3746.6	2979.4
62.5°	3144.1	3122.1	3284.2	2326.2	1874.8
65°	2783.2	2783.2	2945.0	1689.3	1694.9
67.5°	2445.6	2423.7	2195.9	1517.8	1517.8
70°	2083.3	2091.5	1265.2	1329.9	1331.2
72.5°	1719.6	1749.8	1092.5	1144.5	1147.2
75°	1375.1	1401.2	909.9	958.0	962.0
77.5°	1010.1	776.8	731.4	768.6	769.9
80°	709.5	489.9	560.0	595.6	591.5
82.5°	414.4	343.1	410.3	436.5	435.0
85°	179.7	227.8	284.0	307.4	290.9
87.5°	57.6	141.4	176.9	190.8	189.3
90°	2.6	92.5	147.1	176.5	177.4
92.5°	7.8	80.3	142.8	184.2	189.9
95°	25.8	90.2	165.5	223.0	238.7
97.5°	120.2	156.6	208.8	266.5	277.9
100°	242.7	281.4	257.4	292.9	298.7
102.5°	388.6	395.7	300.7	292.6	289.6
105°	456.4	459.4	401.0	290.6	267.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.7	377.1	378.6	360.6	336.0
115°	319.9	322.6	327.5	320.8	307.3
117.5°	262.6	266.0	268.7	266.0	264.3
120°	220.0	225.2	226.9	223.4	223.4
122.5°	185.2	189.5	192.1	189.5	190.4
125°	153.0	159.1	162.6	160.8	161.7
127.5°	127.8	133.0	139.1	138.2	138.2
130°	111.3	114.8	119.1	120.0	120.0
132.5°	99.1	101.7	105.2	106.1	106.9
135°	88.7	91.3	94.8	95.6	95.6
137.5°	81.7	83.5	86.1	86.9	87.8
140°	74.8	77.4	79.1	80.0	80.0
142.5°	69.6	71.3	73.0	73.9	74.8
145°	65.2	66.9	67.8	68.7	69.6
147.5°	60.9	62.6	64.3	64.3	65.2
150°	58.3	59.1	60.0	60.9	60.9
152.5°	54.8	55.6	56.5	57.4	57.4
155°	52.2	53.0	53.9	54.8	54.8
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°	459.0	467.5	437.4	336.6	272.7
110°	422.1	432.3	417.2	376.2	322.1



(END OF REPORT)