

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: P828341

Luminaire Tested: **OHBL-24HE-NL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828341
REPORT IS A COMBINATION OF REPORTS P826303 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-NL-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

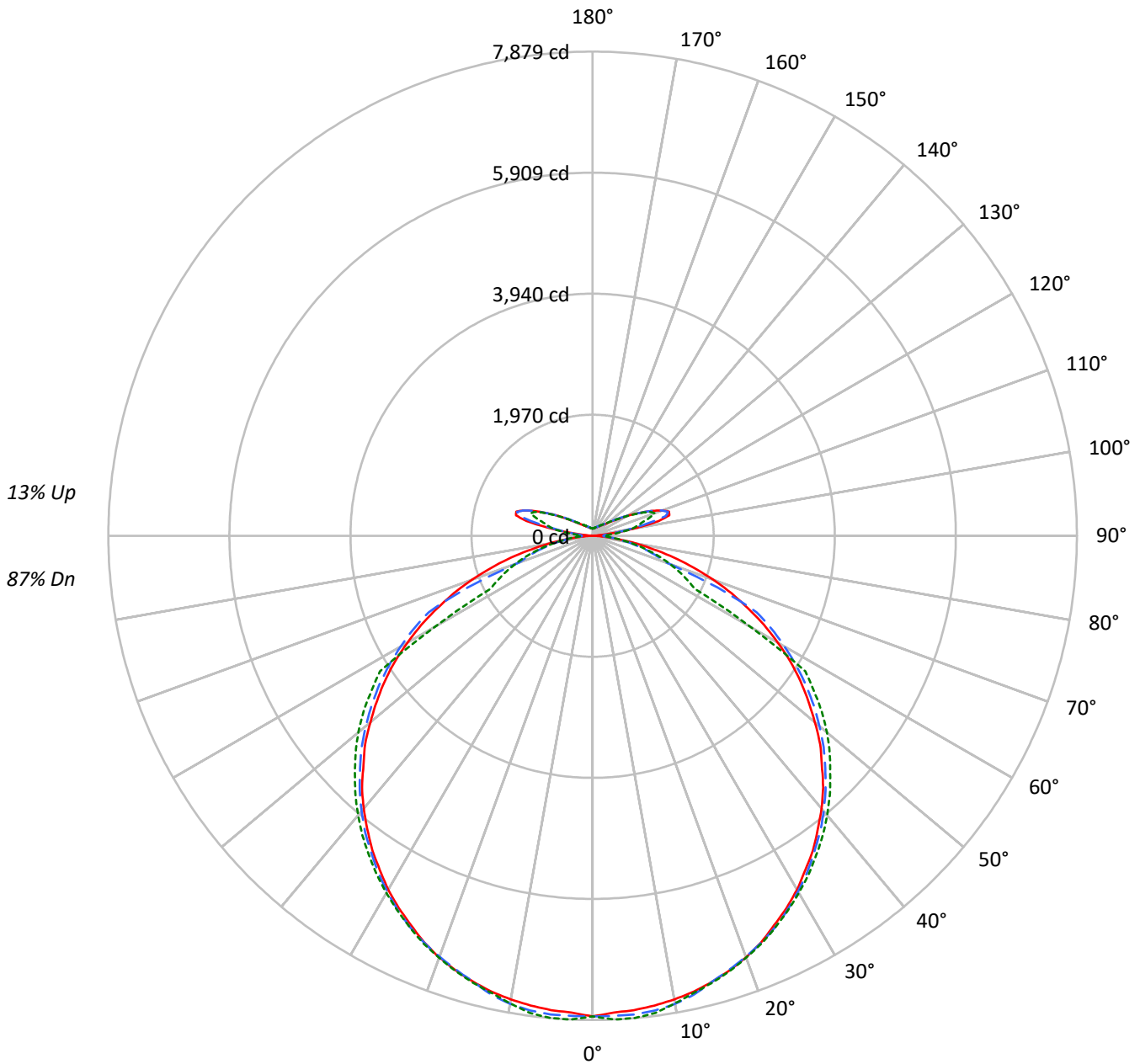
Lumens per Lamp: N/A
Luminaire Lumens: 25073.1 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 161.8
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				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			
1	106	102	98	94	102	98	95	91	92	89	86	86	83	81	80	78	77	74			
2	97	89	83	77	93	86	80	75	81	76	72	75	71	68	71	68	65	62			
3	88	78	71	64	85	76	69	63	71	65	60	67	62	58	63	59	55	52			
4	81	69	61	55	78	67	59	53	63	57	51	59	54	49	56	51	47	45			
5	74	62	53	47	71	60	52	46	57	50	44	53	47	43	50	45	41	39			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34			
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30			
8	59	46	38	32	57	45	37	31	42	35	31	40	34	30	38	33	29	27			
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24			
10	52	39	31	26	50	38	30	26	36	29	25	34	28	24	33	27	23	22			

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	3.0
10°-20°	2127.5	8.5
20°-30°	3237.2	12.9
30°-40°	3936.0	15.7
40°-50°	4138.5	16.5
50°-60°	3778.9	15.1
60°-70°	2422.5	9.7
70°-80°	1144.4	4.6
80°-90°	324.0	1.3
90°-100°	323.2	1.3
100°-110°	1106.4	4.4
110°-120°	903.0	3.6
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°	6107.7	24.4
0°-40°	10043.7	40.1
0°-60°	17961.1	71.6
0°-90°	21852.0	87.2
90°-120°	2332.7	9.3
90°-150°	3097.5	12.4
90°-180°	3221.0	12.8
0°-180°	25073.1	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°	7	120	181	212	210	13
95°	58	148	234	305	319	203
105°	1291	1297	1227	918	830	1227
115°	902	893	904	906	889	910
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°	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°	7.0	119.5	181.0	212.1	210.4
92.5°	21.7	112.5	176.8	220.8	227.3
95°	58.0	147.6	234.1	304.7	318.7
97.5°	328.0	378.3	367.9	458.6	482.2
100°	700.9	739.6	598.2	628.5	647.3
102.5°	1100.6	1127.8	902.4	769.0	744.3
105°	1291.0	1296.7	1227.0	918.3	830.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1060.3	1065.7	1060.2	1052.6	1015.1
115°	902.4	892.9	904.0	906.0	889.0
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°	1303.2	1312.6	1286.9	1128.7	969.2
110°	1204.6	1220.0	1204.1	1149.1	1070.7



(END OF REPORT)