

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: P828390

Luminaire Tested: **OHBL-36HE-MCL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828390
REPORT IS A COMBINATION OF REPORTS P826312 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-36HE-MCL-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

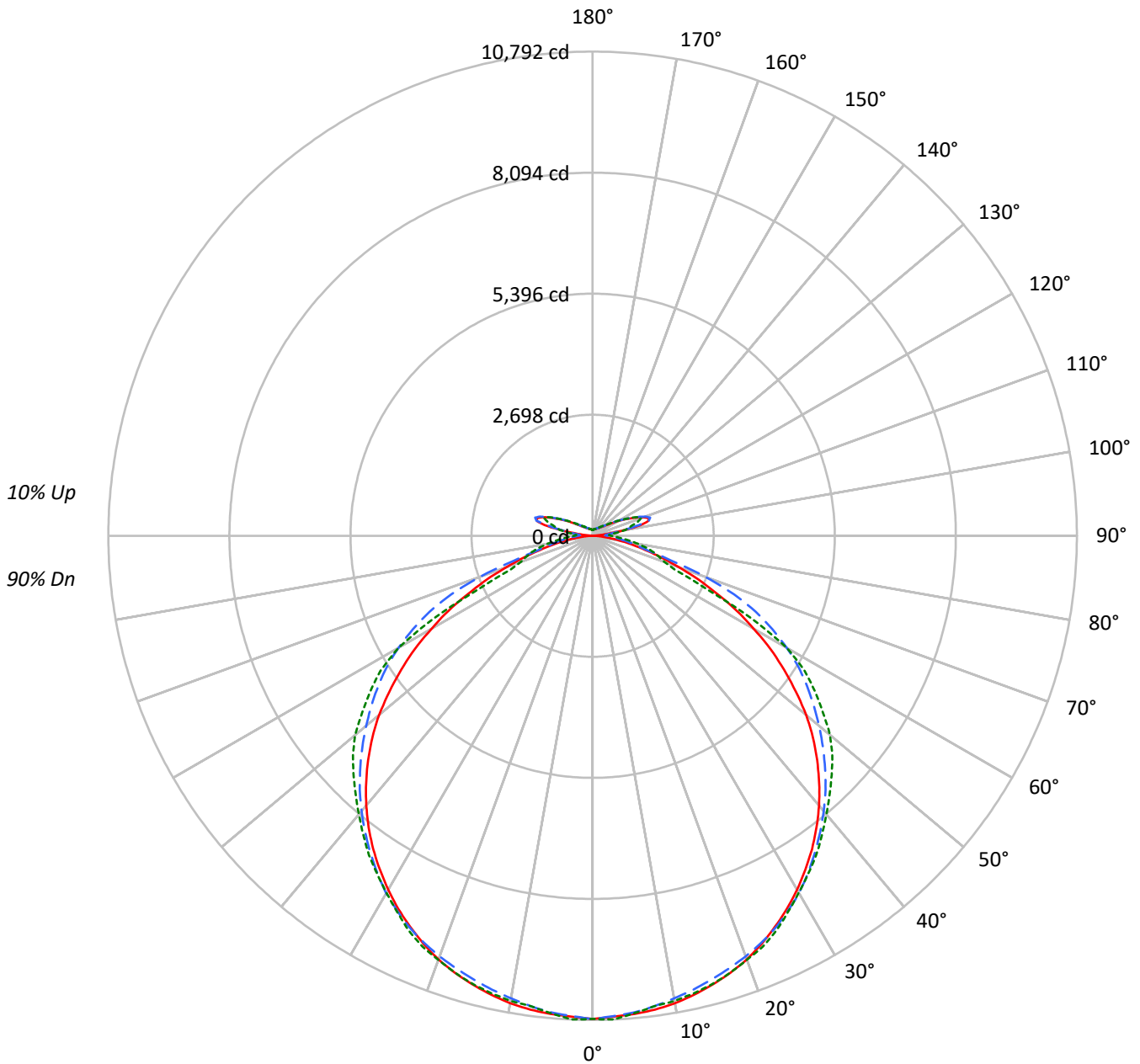
Lumens per Lamp: N/A
Luminaire Lumens: 33555.4 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 240.8
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	78	78	78	76
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	66	66	66	63
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	46
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	37	37	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	27
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	26	26	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17033	17033	17033
5°	16850	16785	16892
10°	16717	16531	16775
15°	16540	16341	16735
20°	16361	16221	16660
25°	16088	16100	16591
30°	15794	15910	16359
35°	15455	15609	16274
40°	15035	15297	16134
45°	14482	14936	16139
50°	13761	14526	16141
55°	12677	14122	15689
60°	11295	13531	14680
65°	9539	12434	9450
70°	7519	9707	7001
75°	5459	5762	7337
80°	3599	4791	7397
85°	1826	4390	7779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1015.5	3.0
10°-20°	2912.0	8.7
20°-30°	4447.6	13.3
30°-40°	5396.4	16.1
40°-50°	5656.0	16.9
50°-60°	5125.2	15.3
60°-70°	3436.2	10.2
70°-80°	1543.0	4.6
80°-90°	566.6	1.7
90°-100°	407.7	1.2
100°-110°	1162.9	3.5
110°-120°	936.5	2.8
120°-130°	446.4	1.3
130°-140°	230.0	0.7
140°-150°	135.8	0.4
150°-160°	81.2	0.2
160°-170°	43.2	0.1
170°-180°	13.2	0.0
0°-30°	8375.1	25.0
0°-40°	13771.5	41.0
0°-60°	24552.6	73.2
0°-90°	30098.5	89.7
90°-120°	2507.2	7.5
90°-150°	3319.3	9.9
90°-180°	3457.0	10.3
0°-180°	33555.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10770	10770	10770	10770	10770	
5°	10700	10737	10663	10695	10681	###
15°	10353	10312	10239	10329	10342	2923
25°	9618	9576	9643	9731	9703	4433
35°	8524	8545	8632	8724	8690	5328
45°	7075	7190	7324	7511	7534	5450
55°	5206	5457	5829	6062	6048	4647
65°	3055	3533	4012	3386	2764	3044
75°	1202	1744	1283	1313	1398	1314
85°	207	397	509	615	645	253
90°	8	175	318	393	409	17
95°	56	190	324	402	422	203
105°	1290	1317	1294	1004	922	1228
115°	908	902	935	954	948	917
125°	452	469	495	492	485	426
135°	275	282	291	301	304	217
145°	204	209	214	218	220	130
155°	169	173	175	177	176	79
165°	148	150	151	152	153	42
175°	137	137	136	135	136	13
180°	134	134	134	134	134	



TEST NUMBER: P828390

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10770.1	10770.1	10770.1	10770.1	10770.1
2.5°	10726.4	10771.6	10715.6	10776.2	10791.9
5°	10700.0	10737.4	10662.6	10695.3	10681.3
7.5°	10651.7	10664.2	10575.4	10601.8	10573.8
10°	10580.1	10573.8	10469.5	10520.9	10527.1
12.5°	10474.2	10455.5	10362.0	10439.9	10441.5
15°	10352.7	10312.2	10239.0	10329.3	10341.8
17.5°	10212.6	10159.6	10111.3	10228.1	10209.5
20°	10049.0	9986.7	9977.4	10105.1	10058.3
22.5°	9846.6	9798.3	9820.1	9941.6	9912.0
25°	9617.7	9575.6	9642.6	9731.3	9703.3
27.5°	9376.3	9351.4	9427.6	9496.2	9441.7
30°	9111.5	9097.5	9198.8	9254.8	9186.3
32.5°	8823.5	8828.2	8924.7	9001.0	8937.1
35°	8524.5	8544.7	8631.9	8723.8	8689.6
37.5°	8195.9	8241.0	8328.2	8432.6	8396.7
40°	7848.6	7914.0	8010.5	8136.7	8104.0
42.5°	7473.3	7555.8	7680.4	7820.6	7817.4
45°	7074.7	7189.9	7323.9	7510.7	7534.1
47.5°	6660.5	6789.7	6959.4	7208.6	7244.4
50°	6210.4	6372.3	6584.1	6883.1	6905.0
52.5°	5708.9	5930.0	6210.4	6496.9	6470.4
55°	5206.0	5456.6	5828.8	6062.5	6048.4
57.5°	4704.5	4986.4	5437.9	5604.6	5603.0
60°	4143.9	4500.5	4994.2	5120.2	4995.7
62.5°	3625.3	4008.4	4520.8	4428.9	4002.1
65°	3055.3	3533.4	4011.5	3385.5	2764.1
67.5°	2549.2	3047.6	3407.3	2318.8	1985.6
70°	2040.0	2589.7	2656.7	1720.8	1697.4
72.5°	1588.4	2174.0	1832.9	1473.2	1548.0
75°	1202.2	1744.1	1283.2	1312.8	1398.4
77.5°	876.7	1339.2	998.2	1150.8	1220.9
80°	602.7	948.4	814.4	967.1	1015.3
82.5°	378.4	626.0	652.5	778.7	828.5
85°	207.1	397.1	509.2	615.1	644.7
87.5°	85.6	239.8	389.3	475.0	499.8
90°	8.5	174.9	318.0	392.7	409.2
92.5°	23.3	153.4	281.9	349.8	365.9
95°	55.5	190.3	324.1	402.1	422.3
97.5°	328.3	414.9	454.5	544.8	571.8
100°	702.9	770.9	681.7	712.5	734.6
102.5°	1100.0	1152.2	982.3	852.8	831.4
105°	1290.4	1317.4	1293.8	1003.9	921.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1062.9	1076.5	1098.0	1108.5	1083.8
115°	908.0	902.0	935.4	954.0	948.5
117.5°	778.4	772.8	803.2	809.0	802.6
120°	656.7	658.3	687.2	682.9	677.5
122.5°	546.3	558.4	581.7	580.8	571.1
125°	451.7	468.9	494.9	491.8	484.6
127.5°	390.6	395.9	420.6	420.8	422.4
130°	337.6	346.1	363.5	371.4	369.7
132.5°	302.7	311.2	324.6	333.3	336.0
135°	274.8	282.5	291.0	301.4	303.8
137.5°	253.8	259.0	264.2	276.4	278.8
140°	234.7	239.9	243.5	253.3	254.8
142.5°	217.4	224.2	227.0	234.3	235.9
145°	203.5	209.4	213.8	218.0	220.4
147.5°	194.7	198.1	202.5	203.4	205.8
150°	185.1	187.7	191.2	192.9	193.8
152.5°	176.4	179.0	182.5	183.4	184.2
155°	168.6	172.8	175.4	177.1	175.5
157.5°	161.6	165.8	168.4	169.3	169.3
160°	156.4	159.7	162.3	162.3	163.2
162.5°	152.8	154.5	156.2	157.1	158.0
165°	148.4	150.2	151.0	151.9	152.8
167.5°	144.9	147.4	146.7	147.5	147.5
170°	141.5	142.3	143.2	141.6	142.5
172.5°	138.9	139.7	140.6	139.0	139.0
175°	137.1	137.1	136.4	134.9	135.7
177.5°	136.9	136.2	134.7	133.1	132.4
180°	133.8	133.8	133.8	133.8	133.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1304.2	1328.5	1344.0	1208.3	<i>1060.1</i>
110°	1205.7	1232.6	1251.5	1216.0	<i>1150.4</i>



(END OF REPORT)