

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: P827813

Luminaire Tested: **OHBL-48HE-MFL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827813
REPORT IS A COMBINATION OF REPORTS P826253 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-48HE-MFL-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

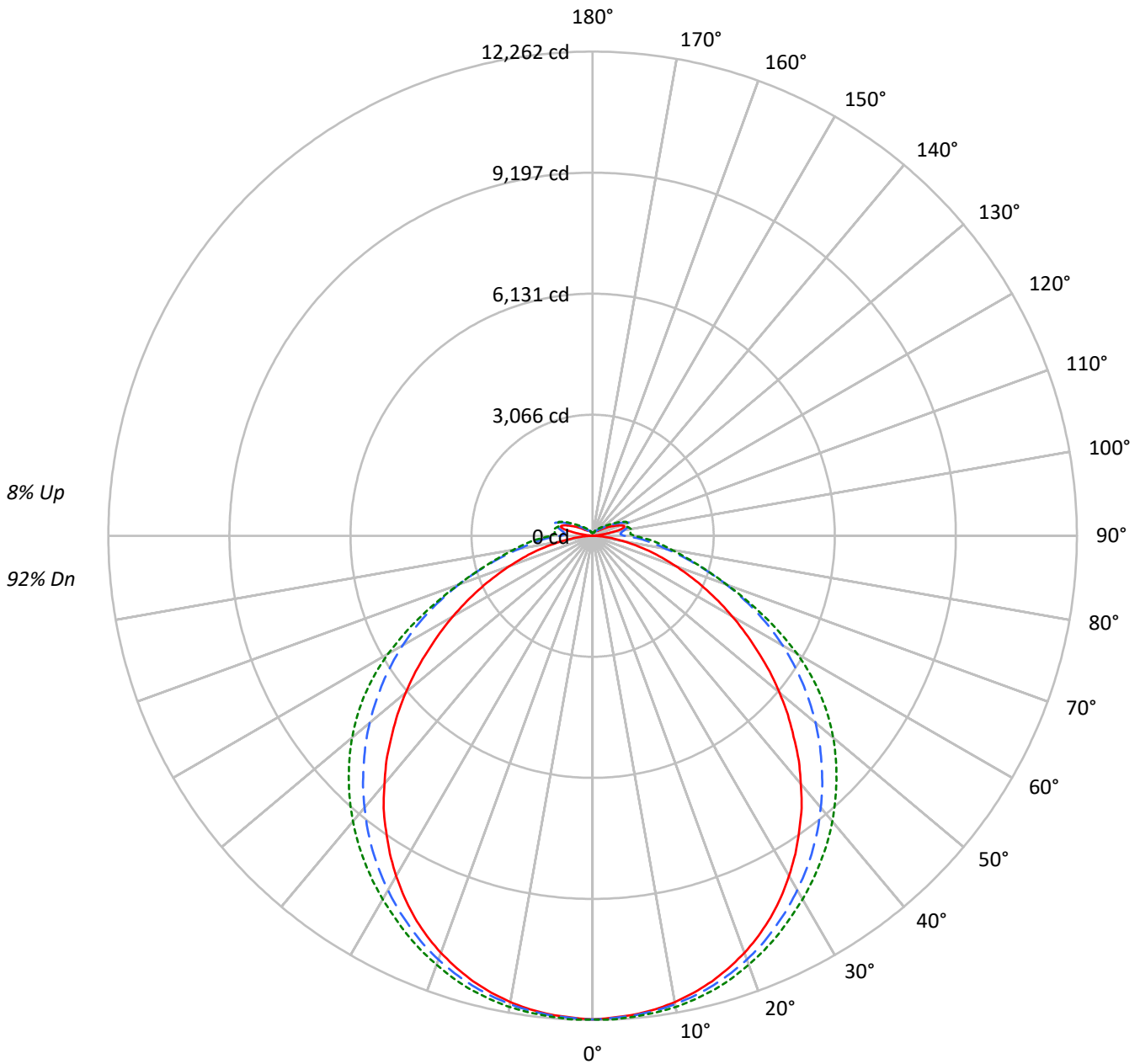
Lumens per Lamp: N/A
Luminaire Lumens: 38618.4 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 283.4
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19373	19373	19373
5°	19168	19190	19330
10°	18953	19020	19310
15°	18661	18818	19259
20°	18299	18570	19149
25°	17843	18261	19038
30°	17243	17926	18932
35°	16535	17570	18860
40°	15701	17158	18801
45°	14735	16710	18707
50°	13684	16258	18585
55°	12418	15704	18298
60°	11122	15052	17576
65°	9715	14218	16277
70°	8200	13155	14887
75°	6657	11928	14158
80°	4780	11040	14831
85°	2696	11475	18593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.7	3.0
10°-20°	3330.0	8.6
20°-30°	5036.1	13.0
30°-40°	6045.8	15.7
40°-50°	6244.4	16.2
50°-60°	5618.0	14.5
60°-70°	4231.9	11.0
70°-80°	2555.4	6.6
80°-90°	1254.8	3.2
90°-100°	713.5	1.8
100°-110°	950.9	2.5
110°-120°	734.4	1.9
120°-130°	367.5	1.0
130°-140°	186.5	0.5
140°-150°	103.2	0.3
150°-160°	54.7	0.1
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	9526.8	24.7
0°-40°	15572.7	40.3
0°-60°	27435.0	71.0
0°-90°	35477.1	91.9
90°-120°	2398.8	6.2
90°-150°	3055.9	7.9
90°-180°	3141.0	8.1
0°-180°	38618.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12250	12250	12250	12250	12250	
5°	12172	12205	12190	12238	12223	###
15°	11680	11737	11791	11890	11902	3293
25°	10667	10784	10937	11108	11135	4907
35°	9120	9333	9717	10010	10070	5701
45°	7198	7561	8194	8640	8733	5557
55°	5100	5627	6482	6970	7054	4572
65°	3112	3748	4587	4815	4761	3092
75°	1466	2105	2656	2725	2698	1564
85°	306	806	1331	1514	1541	353
90°	4	342	800	1009	1054	22
95°	58	303	709	910	961	146
105°	832	925	1012	918	896	790
115°	583	634	769	836	843	589
125°	297	321	416	470	476	278
135°	183	192	234	280	294	144
145°	147	147	153	178	188	92
155°	124	128	127	125	128	53
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12249.9	12249.9	12249.9	<i>12249.9</i>	12249.9
2.5°	<i>12213.9</i>	<i>12243.9</i>	<i>12226.0</i>	<i>12264.9</i>	<i>12261.9</i>
5°	12172.0	12204.9	12190.0	<i>12237.9</i>	12223.0
7.5°	12100.0	12136.0	12133.0	<i>12187.0</i>	12180.9
10°	11995.1	12034.1	12046.0	<i>12118.0</i>	12118.0
12.5°	11851.2	11902.1	11932.1	<i>12019.1</i>	12022.1
15°	11680.3	11737.2	11791.2	<i>11890.2</i>	11902.1
17.5°	11473.4	11545.4	11620.4	<i>11734.3</i>	11749.3
20°	11239.6	11320.5	11422.5	<i>11542.4</i>	11560.4
22.5°	10969.8	11065.7	11197.6	<i>11338.5</i>	11359.5
25°	10667.0	10783.9	10936.8	<i>11107.7</i>	11134.6
27.5°	10322.2	10457.1	10663.9	<i>10855.8</i>	10879.8
30°	9947.4	10106.3	10364.2	<i>10592.0</i>	10631.0
32.5°	9551.7	9734.6	10052.4	<i>10307.2</i>	10361.1
35°	9120.0	9332.9	9716.6	<i>10010.4</i>	10070.4
37.5°	8694.3	8928.1	9362.8	<i>9698.6</i>	9770.6
40°	8196.6	8487.4	8985.1	<i>9356.9</i>	9443.8
42.5°	7728.9	8043.7	8607.3	<i>9012.0</i>	9096.0
45°	7198.3	7561.0	8193.6	<i>8640.3</i>	8733.2
47.5°	6700.6	7093.3	7794.8	<i>8256.6</i>	8352.5
50°	6175.9	6607.6	7369.2	<i>7851.8</i>	7950.8
52.5°	5651.3	6115.9	6928.5	<i>7429.1</i>	7522.0
55°	5099.6	5627.3	6481.7	<i>6970.4</i>	7054.3
57.5°	4587.0	5144.6	6023.1	<i>6487.8</i>	6538.7
60°	4080.3	4658.9	5555.4	<i>5963.1</i>	5981.0
62.5°	3585.6	4194.2	5075.7	<i>5399.4</i>	5375.5
65°	3111.9	3747.5	4587.0	<i>4814.8</i>	4760.8
67.5°	2656.3	3312.8	4086.3	<i>4233.2</i>	4161.2
70°	2224.5	2890.1	3600.6	<i>3675.6</i>	3609.6
72.5°	1843.8	2488.4	3108.9	<i>3171.9</i>	3124.0
75°	1466.1	2104.6	2656.3	<i>2725.2</i>	2698.2
77.5°	1112.3	1732.8	2239.5	<i>2329.5</i>	2335.4
80°	800.5	1394.1	1876.8	<i>2017.7</i>	2035.6
82.5°	527.7	1082.3	1574.0	<i>1753.8</i>	1780.8
85°	305.8	806.5	1331.1	<i>1514.0</i>	1541.0
87.5°	131.9	581.6	1070.3	<i>1235.2</i>	1268.2
90°	4.0	342.2	799.5	<i>1009.4</i>	1054.1
92.5°	22.7	297.2	711.7	<i>915.9</i>	959.4
95°	57.8	302.6	708.7	<i>909.9</i>	961.0
97.5°	235.5	415.1	747.7	<i>939.0</i>	992.6
100°	464.2	629.6	811.1	<i>958.8</i>	990.0
102.5°	707.5	823.4	874.3	<i>933.5</i>	948.0
105°	831.8	924.8	1012.0	<i>917.5</i>	895.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	677.1	743.7	877.8	937.1	923.2
115°	583.4	634.0	768.9	836.2	843.3
117.5°	505.5	539.3	662.4	727.6	737.4
120°	423.1	456.0	571.2	627.0	634.2
122.5°	359.2	383.9	487.7	543.0	547.2
125°	297.2	320.7	416.4	469.5	476.1
127.5°	252.2	268.7	354.7	409.5	417.7
130°	222.3	231.7	305.8	357.5	367.3
132.5°	199.7	211.3	264.9	316.1	327.3
135°	182.7	191.9	233.5	280.1	293.7
137.5°	168.9	177.3	206.2	250.6	262.5
140°	159.8	166.0	185.0	222.6	235.5
142.5°	152.3	155.5	164.7	199.3	208.3
145°	147.2	147.4	152.9	177.7	187.5
147.5°	139.9	143.2	144.8	158.4	167.4
150°	134.3	138.9	138.3	142.1	151.9
152.5°	128.6	133.2	132.6	130.5	136.4
155°	123.8	128.4	127.0	124.8	127.8
157.5°	89.7	91.3	93.0	93.8	93.8
160°	86.5	87.3	88.9	89.7	89.7
162.5°	83.3	84.1	84.9	85.7	85.7
165°	80.8	81.6	82.4	82.4	82.4
167.5°	78.4	78.4	79.2	80.0	80.0
170°	76.0	76.8	76.8	77.6	77.6
172.5°	74.4	75.2	75.2	75.2	76.0
175°	72.8	73.6	73.6	74.4	74.4
177.5°	72.8	72.8	72.8	72.8	72.8
180°	72.8	72.8	72.8	72.8	72.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	835.0	925.1	1045.0	973.0	889.4
110°	772.0	854.2	979.7	1001.4	937.2



(END OF REPORT)