

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: P826613

Luminaire Tested: **OHBL-48HE-MFL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826613
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-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

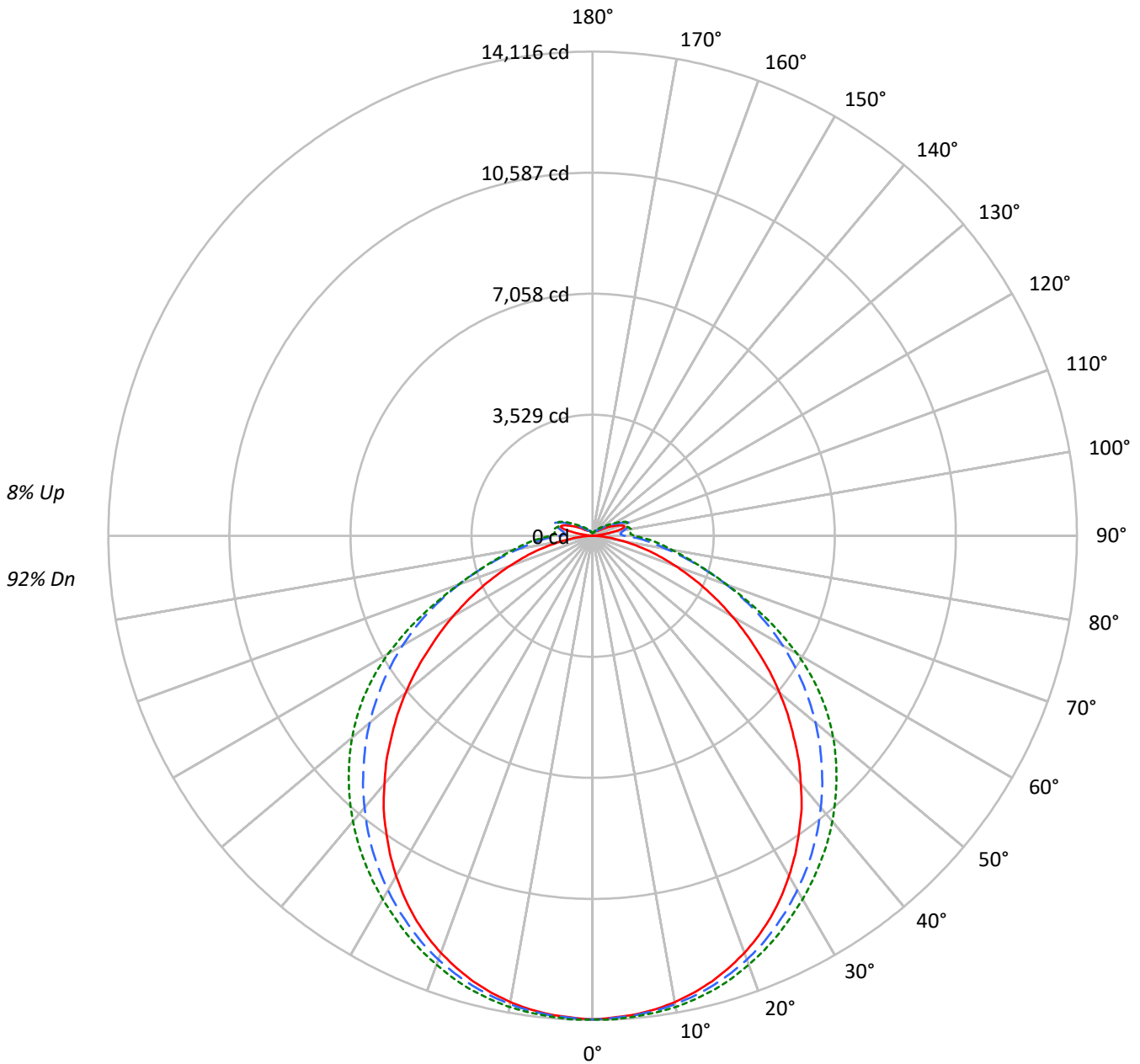
Lumens per Lamp: N/A
Luminaire Lumens: 44457.5 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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°	22302	22302	22302
5°	22066	22091	22252
10°	21819	21896	22230
15°	21482	21663	22172
20°	21066	21378	22044
25°	20541	21022	21917
30°	19851	20636	21794
35°	19035	20226	21712
40°	18075	19752	21644
45°	16963	19237	21536
50°	15754	18716	21395
55°	14296	18078	21065
60°	12804	17327	20233
65°	11185	16367	18738
70°	9440	15145	17138
75°	7664	13731	16298
80°	5502	12710	17073
85°	3103	13210	21404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1336.3	3.0
10°-20°	3833.5	8.6
20°-30°	5797.5	13.0
30°-40°	6960.0	15.7
40°-50°	7188.5	16.2
50°-60°	6467.4	14.5
60°-70°	4871.8	11.0
70°-80°	2941.8	6.6
80°-90°	1444.5	3.2
90°-100°	821.3	1.8
100°-110°	1094.7	2.5
110°-120°	845.4	1.9
120°-130°	423.0	1.0
130°-140°	214.7	0.5
140°-150°	118.8	0.3
150°-160°	63.0	0.1
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	10967.3	24.7
0°-40°	17927.3	40.3
0°-60°	31583.3	71.0
0°-90°	40841.3	91.9
90°-120°	2761.5	6.2
90°-150°	3517.9	7.9
90°-180°	3616.0	8.1
0°-180°	44457.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14102	14102	14102	14102	14102	
5°	14012	14050	14033	14088	14071	###
15°	13446	13512	13574	13688	13702	3791
25°	12280	12414	12590	12787	12818	5648
35°	10499	10744	11186	11524	11593	6563
45°	8287	8704	9432	9947	10054	6397
55°	5871	6478	7462	8024	8121	5264
65°	3582	4314	5280	5543	5481	3559
75°	1688	2423	3058	3137	3106	1800
85°	352	928	1532	1743	1774	407
90°	5	394	920	1162	1214	26
95°	66	348	816	1047	1106	168
105°	958	1065	1165	1056	1031	910
115°	672	730	885	963	971	678
125°	342	369	479	540	548	320
135°	210	221	269	322	338	166
145°	170	170	176	204	216	106
155°	142	148	146	144	147	61
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14102.1	14102.1	14102.1	<i>14102.1</i>	14102.1
2.5°	<i>14060.7</i>	<i>14095.2</i>	<i>14074.6</i>	<i>14119.4</i>	<i>14116.0</i>
5°	14012.4	14050.4	14033.2	<i>14088.3</i>	14071.1
7.5°	13929.6	13971.0	13967.5	<i>14029.7</i>	14022.7
10°	13808.8	13853.6	13867.4	<i>13950.3</i>	13950.3
12.5°	13643.2	13701.8	13736.3	<i>13836.4</i>	13839.9
15°	13446.4	13511.9	13574.1	<i>13688.0</i>	13701.8
17.5°	13208.2	13291.1	13377.4	<i>13508.5</i>	13525.8
20°	12939.1	13032.2	13149.6	<i>13287.6</i>	13308.3
22.5°	12628.5	12738.8	12890.7	<i>13052.9</i>	13077.1
25°	12279.9	12414.4	12590.5	<i>12787.2</i>	12818.2
27.5°	11882.9	12038.2	12276.4	<i>12497.3</i>	12524.9
30°	11451.5	11634.5	11931.3	<i>12193.5</i>	12238.4
32.5°	10995.9	11206.5	11572.3	<i>11865.7</i>	11927.8
35°	10499.0	10744.0	11185.7	<i>11524.0</i>	11593.0
37.5°	10008.9	10278.1	10778.5	<i>11165.1</i>	11247.9
40°	9435.9	9770.7	10343.7	<i>10771.6</i>	10871.7
42.5°	8897.5	9260.0	9908.7	<i>10374.7</i>	10471.4
45°	8286.7	8704.2	9432.5	<i>9946.7</i>	10053.7
47.5°	7713.7	8165.8	8973.4	<i>9505.0</i>	9615.4
50°	7109.7	7606.7	8483.4	<i>9039.0</i>	9152.9
52.5°	6505.8	7040.7	7976.1	<i>8552.4</i>	8659.4
55°	5870.7	6478.2	7461.8	<i>8024.4</i>	8121.0
57.5°	5280.5	5922.5	6933.8	<i>7468.7</i>	7527.4
60°	4697.3	5363.4	6395.3	<i>6864.7</i>	6885.4
62.5°	4127.8	4828.4	5843.1	<i>6215.8</i>	6188.3
65°	3582.5	4314.1	5280.5	<i>5542.9</i>	5480.7
67.5°	3057.9	3813.7	4704.1	<i>4873.3</i>	4790.4
70°	2560.9	3327.1	4145.1	<i>4231.3</i>	4155.4
72.5°	2122.6	2864.6	3579.0	<i>3651.5</i>	3596.3
75°	1687.7	2422.8	3057.9	<i>3137.3</i>	3106.2
77.5°	1280.4	1994.8	2578.1	<i>2681.7</i>	2688.6
80°	921.5	1604.8	2160.6	<i>2322.8</i>	2343.4
82.5°	607.5	1245.9	1812.0	<i>2019.0</i>	2050.1
85°	352.0	928.4	1532.3	<i>1742.9</i>	1774.0
87.5°	151.9	669.5	1232.1	<i>1422.0</i>	1459.9
90°	4.7	394.0	920.4	<i>1162.1</i>	1213.5
92.5°	26.1	342.2	819.4	<i>1054.4</i>	1104.5
95°	66.5	348.3	815.8	<i>1047.4</i>	1106.3
97.5°	271.1	477.8	860.8	<i>1080.9</i>	1142.7
100°	534.4	724.8	933.7	<i>1103.7</i>	1139.7
102.5°	814.5	947.9	1006.5	<i>1074.6</i>	1091.4
105°	957.5	1064.6	1165.1	<i>1056.3</i>	1031.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	779.5	856.2	1010.5	1078.8	1062.8
115°	671.6	729.8	885.1	962.7	970.8
117.5°	582.0	620.9	762.6	837.6	848.9
120°	487.1	524.9	657.5	721.8	730.1
122.5°	413.5	441.9	561.4	625.1	629.9
125°	342.2	369.2	479.3	540.5	548.1
127.5°	290.3	309.3	408.3	471.4	480.8
130°	255.9	266.8	352.0	411.6	422.8
132.5°	229.8	243.2	304.9	363.9	376.8
135°	210.3	220.9	268.8	322.4	338.2
137.5°	194.5	204.2	237.4	288.5	302.2
140°	184.0	191.1	213.0	256.3	271.1
142.5°	175.3	179.0	189.6	229.5	239.8
145°	169.5	169.7	176.0	204.5	215.8
147.5°	161.1	164.8	166.7	182.3	192.7
150°	154.6	159.9	159.2	163.6	174.9
152.5°	148.1	153.4	152.7	150.2	157.1
155°	142.5	147.8	146.2	143.7	147.1
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	961.3	1065.0	1203.0	1120.1	1023.9
110°	888.7	983.3	1127.8	1152.8	1078.9



(END OF REPORT)