

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: P827818

Luminaire Tested: **OHBL-48SE-MCL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827818
REPORT IS A COMBINATION OF REPORTS P826258 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-48SE-MCL-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

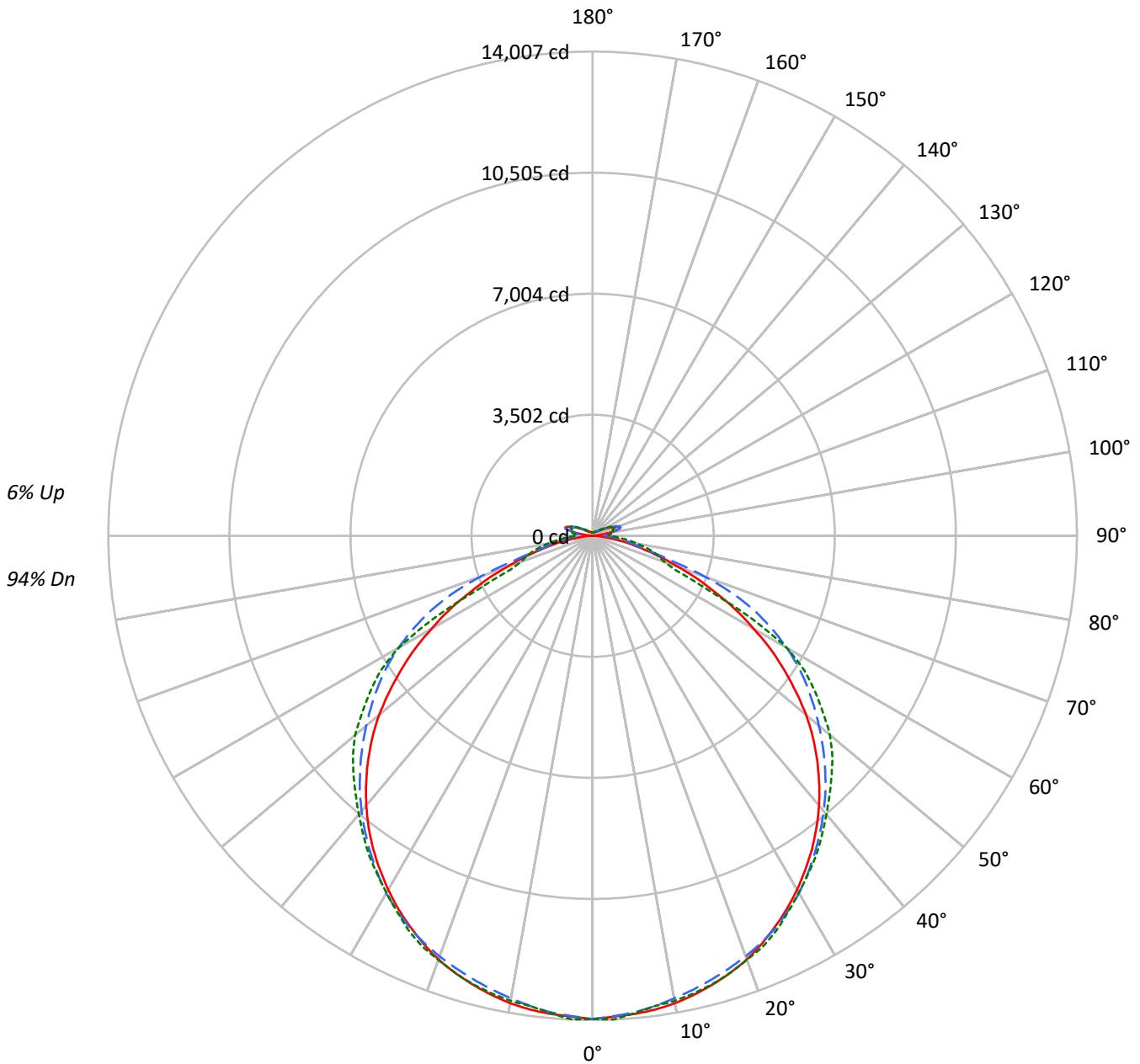
Lumens per Lamp: N/A
Luminaire Lumens: 41466.1 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 306.2
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	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	80																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67																			
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	59	53	62	57	52	60	55	51	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36																			
7	65	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23875	23875	23875
5°	23604	23518	23678
10°	23403	23151	23514
15°	23140	22874	23458
20°	22874	22696	23354
25°	22476	22516	23256
30°	22050	22238	22931
35°	21559	21804	22812
40°	20954	21355	22615
45°	20163	20837	22623
50°	19137	20248	22625
55°	17606	19666	21992
60°	15660	18820	20578
65°	13196	17269	13247
70°	10372	13453	9813
75°	7498	7963	10285
80°	4909	6590	10369
85°	2459	5983	10904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1318.1	3.2
10°-20°	3779.5	9.1
20°-30°	5772.6	13.9
30°-40°	7004.1	16.9
40°-50°	7341.0	17.7
50°-60°	6652.0	16.0
60°-70°	4459.9	10.8
70°-80°	2002.7	4.8
80°-90°	731.7	1.8
90°-100°	406.2	1.0
100°-110°	753.8	1.8
110°-120°	609.9	1.5
120°-130°	296.3	0.7
130°-140°	153.6	0.4
140°-150°	90.8	0.2
150°-160°	55.1	0.1
160°-170°	29.8	0.1
170°-180°	9.1	0.0
0°-30°	10870.2	26.2
0°-40°	17874.2	43.1
0°-60°	31867.2	76.9
0°-90°	39061.6	94.2
90°-120°	1769.8	4.3
90°-150°	2310.6	5.6
90°-180°	2405.0	5.8
0°-180°	41466.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13979	13979	13979	13979	13979	
5°	13888	13936	13839	13882	13863	###
15°	13437	13384	13289	13407	13423	3794
25°	12483	12428	12515	12630	12594	5754
35°	11064	11090	11204	11323	11278	6915
45°	9182	9332	9506	9748	9779	7074
55°	6757	7082	7565	7868	7850	6031
65°	3966	4586	5207	4394	3588	3951
75°	1560	2264	1666	1704	1815	1705
85°	269	515	661	798	837	328
90°	6	199	380	479	504	19
95°	45	197	374	469	502	136
105°	819	848	797	625	592	779
115°	576	589	624	638	637	579
125°	287	304	330	335	335	270
135°	180	185	193	204	208	142
145°	135	141	143	146	149	87
155°	114	118	119	120	118	53
165°	103	104	105	105	105	29
175°	95	96	94	93	93	9
180°	93	93	93	93	93	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13978.6	13978.6	13978.6	13978.6	<i>13978.6</i>
2.5°	<i>13922.0</i>	<i>13980.6</i>	<i>13907.9</i>	<i>13986.7</i>	<i>14006.9</i>
5°	13887.7	13936.2	13839.1	13881.6	<i>13863.4</i>
7.5°	13824.9	13841.1	13725.9	13760.3	<i>13723.9</i>
10°	13732.0	13723.9	13588.5	13655.2	<i>13663.3</i>
12.5°	13594.6	13570.3	13449.0	13550.1	<i>13552.1</i>
15°	13436.9	13384.3	13289.3	13406.6	<i>13422.8</i>
17.5°	13255.0	13186.3	13123.6	13275.2	<i>13250.9</i>
20°	13042.8	12961.9	12949.8	13115.5	<i>13054.9</i>
22.5°	12780.0	12717.3	12745.6	12903.3	<i>12864.9</i>
25°	12482.8	12428.3	12515.3	12630.5	<i>12594.1</i>
27.5°	12169.6	12137.3	12236.3	12325.2	<i>12254.5</i>
30°	11826.0	11807.8	11939.2	12011.9	<i>11923.0</i>
32.5°	11452.1	11458.1	11583.5	11682.5	<i>11599.7</i>
35°	11064.0	11090.3	11203.5	11322.7	<i>11278.3</i>
37.5°	10637.5	10696.2	10809.4	10944.8	<i>10898.3</i>
40°	10186.8	10271.7	10397.0	10560.7	<i>10518.3</i>
42.5°	9699.7	9806.9	9968.5	10150.4	<i>10146.4</i>
45°	9182.3	9331.9	9505.7	9748.2	<i>9778.6</i>
47.5°	8644.6	8812.4	9032.7	9356.1	<i>9402.6</i>
50°	8060.5	8270.7	8545.6	8933.7	<i>8962.0</i>
52.5°	7409.7	7696.7	8060.5	8432.5	<i>8398.0</i>
55°	6756.9	7082.3	7565.4	7868.5	<i>7850.3</i>
57.5°	6106.0	6471.8	7058.0	7274.3	<i>7272.3</i>
60°	5378.4	5841.3	6481.9	6645.7	<i>6484.0</i>
62.5°	4705.3	5202.5	5867.5	5748.3	<i>5194.4</i>
65°	3965.6	4586.1	5206.6	4394.1	<i>3587.6</i>
67.5°	3308.7	3955.5	4422.4	3009.6	<i>2577.0</i>
70°	2647.8	3361.2	3448.2	2233.4	<i>2203.1</i>
72.5°	2061.7	2821.6	2378.9	1912.0	<i>2009.0</i>
75°	1560.3	2263.7	1665.5	1703.9	<i>1815.0</i>
77.5°	1138.0	1738.2	1295.6	1493.6	<i>1584.6</i>
80°	782.2	1230.9	1057.1	1255.2	<i>1317.8</i>
82.5°	491.1	812.5	846.9	1010.6	<i>1075.2</i>
85°	268.9	515.4	660.9	798.4	<i>836.8</i>
87.5°	111.1	311.3	505.3	616.4	<i>648.8</i>
90°	6.1	199.3	379.6	478.6	<i>504.5</i>
92.5°	15.8	167.7	337.2	428.1	<i>452.7</i>
95°	44.9	196.8	373.5	469.3	<i>501.7</i>
97.5°	221.5	320.1	449.0	542.9	<i>577.6</i>
100°	452.3	544.4	546.0	602.2	<i>615.5</i>
102.5°	697.6	742.1	637.0	613.5	<i>613.1</i>
105°	818.8	848.3	797.4	625.2	<i>591.7</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	667.3	691.1	718.6	718.2	696.4
115°	575.5	589.3	623.6	638.2	637.4
117.5°	494.7	499.6	533.1	544.4	549.3
120°	412.2	423.2	456.7	462.8	459.9
122.5°	348.4	358.1	385.2	393.7	390.8
125°	287.4	303.9	329.8	335.1	334.7
127.5°	247.4	257.9	282.1	289.0	290.2
130°	217.4	225.9	244.1	253.0	253.8
132.5°	196.8	204.5	216.2	227.5	226.7
135°	179.9	185.1	192.8	204.5	208.1
137.5°	168.1	170.6	175.4	187.9	190.0
140°	156.0	159.2	161.3	171.0	173.8
142.5°	143.5	148.7	149.9	157.6	159.6
145°	135.4	140.6	143.1	145.9	148.7
147.5°	130.1	133.4	135.0	136.6	138.6
150°	124.5	126.1	128.5	129.3	130.1
152.5°	118.8	120.4	122.9	123.7	123.7
155°	114.0	117.6	119.2	120.0	118.0
157.5°	109.9	113.6	115.2	116.0	116.0
160°	106.7	109.5	111.1	112.0	112.0
162.5°	105.5	106.3	107.1	107.9	107.9
165°	103.1	103.9	104.7	104.7	104.7
167.5°	100.6	102.7	101.4	102.3	102.3
170°	98.2	99.0	99.0	97.8	97.8
172.5°	96.6	97.4	97.4	95.4	96.2
175°	95.0	95.8	93.8	92.6	92.6
177.5°	97.0	95.0	93.0	90.9	88.9
180°	93.0	93.0	93.0	93.0	93.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	824.1	855.6	853.2	708.5	613.9
110°	763.1	790.6	804.7	760.6	685.5



(END OF REPORT)