

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: P828330

Luminaire Tested: **OHBL-24HE-MCL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828330
REPORT IS A COMBINATION OF REPORTS P826072 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MCL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

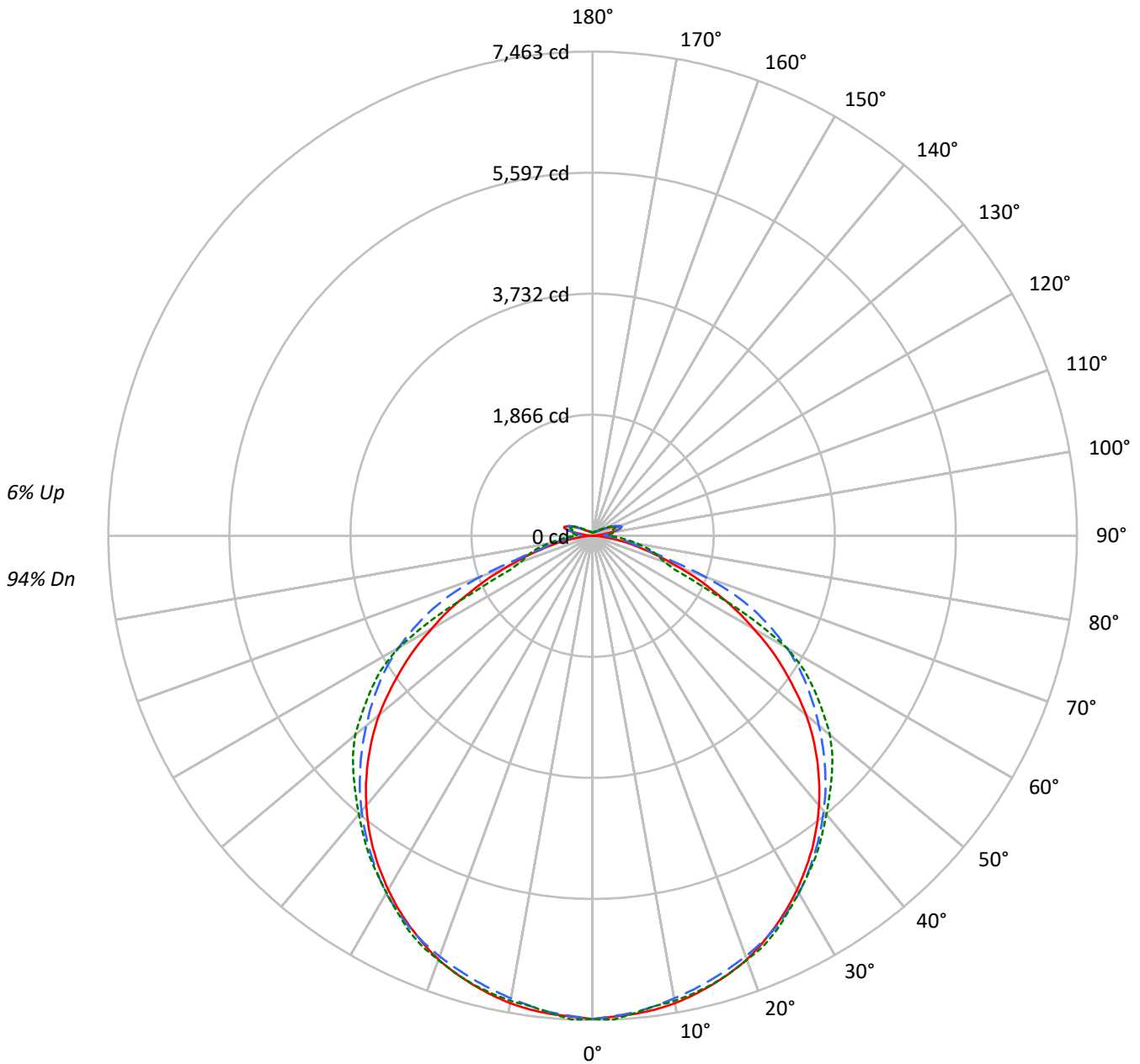
Lumens per Lamp: N/A
Luminaire Lumens: 22134.6 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 141.4
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	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	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	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	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36																			
7	64	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°	11779	11779	11779
5°	11653	11608	11682
10°	11561	11432	11601
15°	11438	11301	11573
20°	11315	11218	11522
25°	11126	11134	11474
30°	10923	11003	11313
35°	10688	10794	11254
40°	10398	10579	11157
45°	10015	10329	11161
50°	9517	10046	11162
55°	8767	9766	10850
60°	7811	9358	10152
65°	6597	8599	6535
70°	5200	6713	4841
75°	3775	3985	5074
80°	2489	3313	5116
85°	1262	3035	5380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.3	3.2
10°-20°	2013.8	9.1
20°-30°	3075.8	13.9
30°-40°	3732.0	16.9
40°-50°	3911.5	17.7
50°-60°	3544.4	16.0
60°-70°	2376.4	10.7
70°-80°	1067.1	4.8
80°-90°	390.0	1.8
90°-100°	220.0	1.0
100°-110°	414.9	1.9
110°-120°	336.7	1.5
120°-130°	163.4	0.7
130°-140°	84.6	0.4
140°-150°	50.1	0.2
150°-160°	30.4	0.1
160°-170°	16.4	0.1
170°-180°	5.0	0.0
0°-30°	5791.9	26.2
0°-40°	9523.9	43.0
0°-60°	16979.7	76.7
0°-90°	20813.2	94.0
90°-120°	971.6	4.4
90°-150°	1269.7	5.7
90°-180°	1321.0	6.0
0°-180°	22134.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7448	7448	7448	7448	7448	
5°	7400	7426	7374	7396	7387	704
15°	7160	7132	7081	7143	7152	2021
25°	6651	6622	6668	6730	6710	3066
35°	5895	5909	5970	6033	6009	3685
45°	4892	4972	5065	5194	5210	3769
55°	3600	3774	4031	4192	4183	3214
65°	2113	2444	2774	2341	1912	2105
75°	831	1206	887	908	967	909
85°	143	275	352	425	446	175
90°	4	107	203	255	270	10
95°	23	108	200	253	273	73
105°	454	469	440	343	324	430
115°	322	326	345	351	348	321
125°	161	168	182	184	186	150
135°	98	102	107	113	114	78
145°	75	78	79	80	82	48
155°	63	65	66	67	66	29
165°	57	57	58	58	58	16
175°	53	53	52	50	50	5
180°	51	51	51	51	51	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7448.2	7448.2	7448.2	7448.2	7448.2
2.5°	7418.0	7449.2	7410.4	7452.4	7463.2
5°	7399.7	7425.6	7373.8	7396.5	7386.8
7.5°	7366.3	7375.0	7313.5	7331.9	7312.5
10°	7316.8	7312.5	7240.3	7275.9	7280.1
12.5°	7243.5	7230.6	7166.0	7219.9	7220.9
15°	7159.5	7131.5	7080.9	7143.4	7152.0
17.5°	7062.6	7026.0	6992.6	7073.4	7060.5
20°	6949.6	6906.4	6900.0	6988.3	6956.0
22.5°	6809.6	6776.2	6791.2	6875.2	6854.8
25°	6651.2	6622.1	6668.5	6729.8	6710.5
27.5°	6484.3	6467.1	6519.9	6567.3	6529.5
30°	6301.2	6291.6	6361.6	6400.3	6352.9
32.5°	6102.0	6105.2	6172.0	6224.8	6180.6
35°	5895.2	5909.2	5969.5	6033.1	6009.3
37.5°	5668.0	5699.2	5759.5	5831.6	5806.9
40°	5427.9	5473.1	5539.8	5627.0	5604.4
42.5°	5168.2	5225.4	5311.5	5408.5	5406.3
45°	4892.5	4972.3	5064.9	5194.1	5210.2
47.5°	4606.1	4695.5	4812.9	4985.2	5010.0
50°	4294.9	4406.9	4553.4	4760.1	4775.2
52.5°	3948.1	4101.0	4294.9	4493.0	4474.7
55°	3600.2	3773.6	4031.0	4192.5	4182.9
57.5°	3253.5	3448.4	3760.7	3875.9	3874.9
60°	2865.8	3112.4	3453.8	3541.0	3454.8
62.5°	2507.1	2772.0	3126.3	3062.9	2767.8
65°	2113.0	2443.6	2774.2	2341.2	1911.6
67.5°	1763.0	2107.6	2356.4	1603.6	1373.1
70°	1410.8	1791.0	1837.3	1190.0	1173.8
72.5°	1098.5	1503.4	1267.6	1018.8	1070.5
75°	831.4	1206.2	887.4	907.9	967.1
77.5°	606.4	926.1	690.3	795.9	844.3
80°	416.8	655.8	563.2	668.8	702.2
82.5°	261.7	432.9	451.2	538.4	573.0
85°	143.2	274.7	352.1	425.4	445.9
87.5°	59.2	165.9	269.3	328.5	345.7
90°	3.7	107.2	202.8	255.3	269.5
92.5°	8.9	90.0	181.6	231.1	243.0
95°	22.8	107.5	199.7	252.7	272.7
97.5°	119.5	173.0	248.8	296.4	309.4
100°	243.2	296.0	302.0	329.9	337.4
102.5°	386.0	406.6	348.0	337.0	335.9
105°	453.8	469.1	440.5	343.0	324.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.0	381.1	400.0	395.9	383.2
115°	321.6	326.0	345.1	351.1	348.0
117.5°	271.2	276.8	295.6	299.4	299.9
120°	228.6	234.8	250.7	252.5	253.6
122.5°	193.8	198.1	212.6	215.4	217.4
125°	160.6	167.7	182.0	183.5	185.5
127.5°	136.4	141.6	156.3	158.7	159.8
130°	119.9	124.4	134.2	139.4	139.4
132.5°	108.8	112.5	119.2	124.4	125.3
135°	98.3	102.1	106.6	112.9	114.0
137.5°	92.5	94.2	96.9	103.1	105.0
140°	85.6	88.2	88.8	94.0	95.0
142.5°	79.2	82.1	82.7	86.9	88.8
145°	74.9	77.7	78.6	80.5	82.5
147.5°	71.6	73.4	75.1	75.1	77.0
150°	69.0	69.9	70.8	71.6	71.6
152.5°	65.6	66.4	67.3	68.2	68.2
155°	62.9	64.9	65.7	66.6	65.6
157.5°	60.3	63.1	63.1	64.0	64.0
160°	58.6	60.5	61.4	61.4	61.4
162.5°	57.9	58.8	58.8	59.6	59.6
165°	57.0	57.0	57.9	57.9	57.9
167.5°	55.3	56.4	56.2	56.2	56.2
170°	54.4	54.4	54.4	54.3	54.3
172.5°	53.6	53.6	53.6	52.5	52.5
175°	52.7	52.7	51.6	50.5	50.5
177.5°	52.9	52.7	51.6	50.5	49.5
180°	50.8	50.8	50.8	50.8	50.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	457.5	474.3	471.0	387.9	334.4
110°	420.3	437.2	445.0	419.0	376.8



(END OF REPORT)