

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: P826530

Luminaire Tested: **OHBL-24HE-MCL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826530
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-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

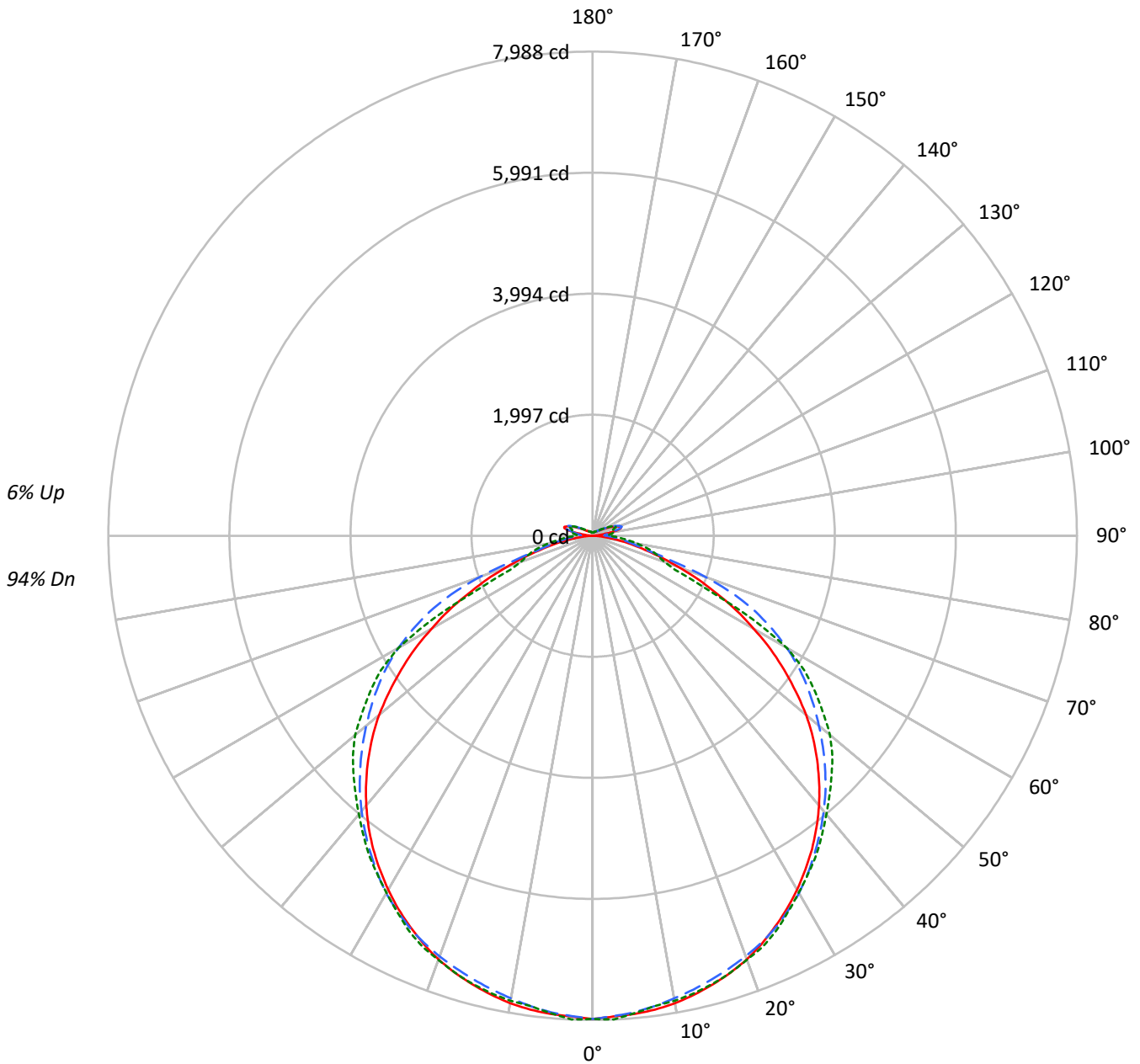
Lumens per Lamp: N/A
Luminaire Lumens: 23690.4 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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					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	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°	12607	12607	12607
5°	12472	12424	12503
10°	12374	12236	12416
15°	12242	12095	12386
20°	12110	12006	12332
25°	11908	11917	12280
30°	11691	11776	12109
35°	11439	11553	12045
40°	11129	11322	11942
45°	10719	11055	11945
50°	10186	10752	11947
55°	9383	10453	11613
60°	8360	10015	10866
65°	7060	9203	6995
70°	5566	7184	5181
75°	4040	4265	5431
80°	2664	3546	5475
85°	1351	3249	5758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.7	3.2
10°-20°	2155.4	9.1
20°-30°	3292.0	13.9
30°-40°	3994.3	16.9
40°-50°	4186.4	17.7
50°-60°	3793.5	16.0
60°-70°	2543.4	10.7
70°-80°	1142.1	4.8
80°-90°	417.4	1.8
90°-100°	235.5	1.0
100°-110°	444.1	1.9
110°-120°	360.3	1.5
120°-130°	174.8	0.7
130°-140°	90.5	0.4
140°-150°	53.7	0.2
150°-160°	32.5	0.1
160°-170°	17.6	0.1
170°-180°	5.4	0.0
0°-30°	6199.0	26.2
0°-40°	10193.3	43.0
0°-60°	18173.2	76.7
0°-90°	22276.1	94.0
90°-120°	1039.8	4.4
90°-150°	1358.9	5.7
90°-180°	1414.0	6.0
0°-180°	23690.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7972	7972	7972	7972	7972	
5°	7920	7948	7892	7916	7906	753
15°	7663	7633	7579	7645	7655	2164
25°	7119	7088	7137	7203	7182	3281
35°	6310	6324	6389	6457	6432	3944
45°	5236	5322	5421	5559	5576	4034
55°	3853	4039	4314	4487	4477	3440
65°	2262	2615	2969	2506	2046	2253
75°	890	1291	950	972	1035	972
85°	153	294	377	455	477	187
90°	4	115	217	273	288	11
95°	24	115	214	270	292	78
105°	486	502	471	367	347	461
115°	344	349	369	376	372	343
125°	172	180	195	196	198	161
135°	105	109	114	121	122	84
145°	80	83	84	86	88	51
155°	67	69	70	71	70	31
165°	61	61	62	62	62	17
175°	56	56	55	54	54	5
180°	54	54	54	54	54	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7971.7	7971.7	7971.7	7971.7	7971.7
2.5°	7939.4	7972.8	7931.3	7976.3	7987.8
5°	7919.8	7947.5	7892.1	7916.3	7906.0
7.5°	7884.0	7893.3	7827.6	7847.2	7826.4
10°	7831.1	7826.4	7749.2	7787.3	7791.8
12.5°	7752.6	7738.9	7669.7	7727.3	7728.4
15°	7662.8	7632.8	7578.6	7645.4	7654.7
17.5°	7559.0	7519.8	7484.1	7570.5	7556.8
20°	7438.0	7391.9	7385.0	7479.5	7444.9
22.5°	7288.2	7252.5	7268.6	7358.5	7336.6
25°	7118.8	7087.6	7137.2	7202.9	7182.1
27.5°	6940.1	6921.7	6978.1	7028.9	6988.5
30°	6744.1	6733.8	6808.7	6850.2	6799.5
32.5°	6530.9	6534.4	6605.8	6662.3	6615.0
35°	6309.5	6324.5	6389.1	6457.1	6431.7
37.5°	6066.4	6099.8	6164.4	6241.5	6215.1
40°	5809.4	5857.8	5929.2	6022.6	5998.4
42.5°	5531.5	5592.6	5684.9	5788.6	5786.3
45°	5236.4	5321.8	5420.9	5559.2	5576.4
47.5°	4929.9	5025.6	5151.2	5335.6	5362.1
50°	4596.8	4716.6	4873.4	5094.7	5110.8
52.5°	4225.6	4389.2	4596.8	4808.8	4789.2
55°	3853.2	4038.9	4314.3	4487.2	4476.9
57.5°	3482.1	3690.8	4025.0	4148.3	4147.2
60°	3067.2	3331.1	3696.5	3789.9	3697.7
62.5°	2683.4	2966.9	3346.1	3278.2	2962.3
65°	2261.5	2615.3	2969.2	2505.8	2045.9
67.5°	1886.9	2255.8	2522.0	1716.3	1469.6
70°	1509.9	1916.9	1966.4	1273.7	1256.3
72.5°	1175.7	1609.1	1356.7	1090.4	1145.7
75°	889.8	1291.0	949.8	971.7	1035.1
77.5°	649.0	991.2	738.9	851.8	903.7
80°	446.1	701.9	602.8	715.8	751.5
82.5°	280.1	463.3	483.0	576.3	613.2
85°	153.3	294.0	376.9	455.3	477.2
87.5°	63.4	177.6	288.2	351.6	370.0
90°	3.9	114.7	217.1	273.2	288.5
92.5°	9.5	96.3	194.4	247.3	260.1
95°	24.4	115.0	213.7	270.5	291.8
97.5°	128.0	185.2	266.3	317.2	331.2
100°	260.3	316.8	323.2	353.1	361.1
102.5°	413.2	435.2	372.4	360.7	359.5
105°	485.8	502.0	471.4	367.1	347.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	397.1	407.9	428.1	423.7	410.1
115°	344.2	348.9	369.3	375.8	372.5
117.5°	290.2	296.3	316.4	320.5	320.9
120°	244.6	251.3	268.3	270.2	271.4
122.5°	207.4	212.1	227.5	230.5	232.6
125°	171.9	179.5	194.8	196.3	198.5
127.5°	146.0	151.6	167.3	169.8	171.0
130°	128.3	133.2	143.6	149.2	149.2
132.5°	116.4	120.4	127.6	133.2	134.1
135°	105.2	109.2	114.1	120.8	122.0
137.5°	99.0	100.9	103.7	110.4	112.4
140°	91.6	94.4	95.0	100.6	101.7
142.5°	84.8	87.8	88.5	93.0	95.0
145°	80.1	83.2	84.1	86.2	88.3
147.5°	76.7	78.5	80.4	80.4	82.4
150°	73.9	74.8	75.7	76.7	76.7
152.5°	70.2	71.1	72.0	73.0	73.0
155°	67.4	69.4	70.4	71.3	70.2
157.5°	64.6	67.6	67.6	68.5	68.5
160°	62.7	64.8	65.7	65.7	65.7
162.5°	62.0	62.9	62.9	63.8	63.8
165°	61.0	61.0	62.0	62.0	62.0
167.5°	59.2	60.4	60.1	60.1	60.1
170°	58.3	58.3	58.3	58.1	58.1
172.5°	57.3	57.3	57.3	56.2	56.2
175°	56.4	56.4	55.3	54.1	54.1
177.5°	56.7	56.4	55.3	54.1	52.9
180°	54.3	54.3	54.3	54.3	54.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	489.7	507.6	504.1	415.1	357.9
110°	449.8	467.9	476.3	448.4	403.3



(END OF REPORT)