

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: P826534

Luminaire Tested: **OHBL-24HE-MFL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826534
REPORT IS A COMBINATION OF REPORTS P826241 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-24HE-MFL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

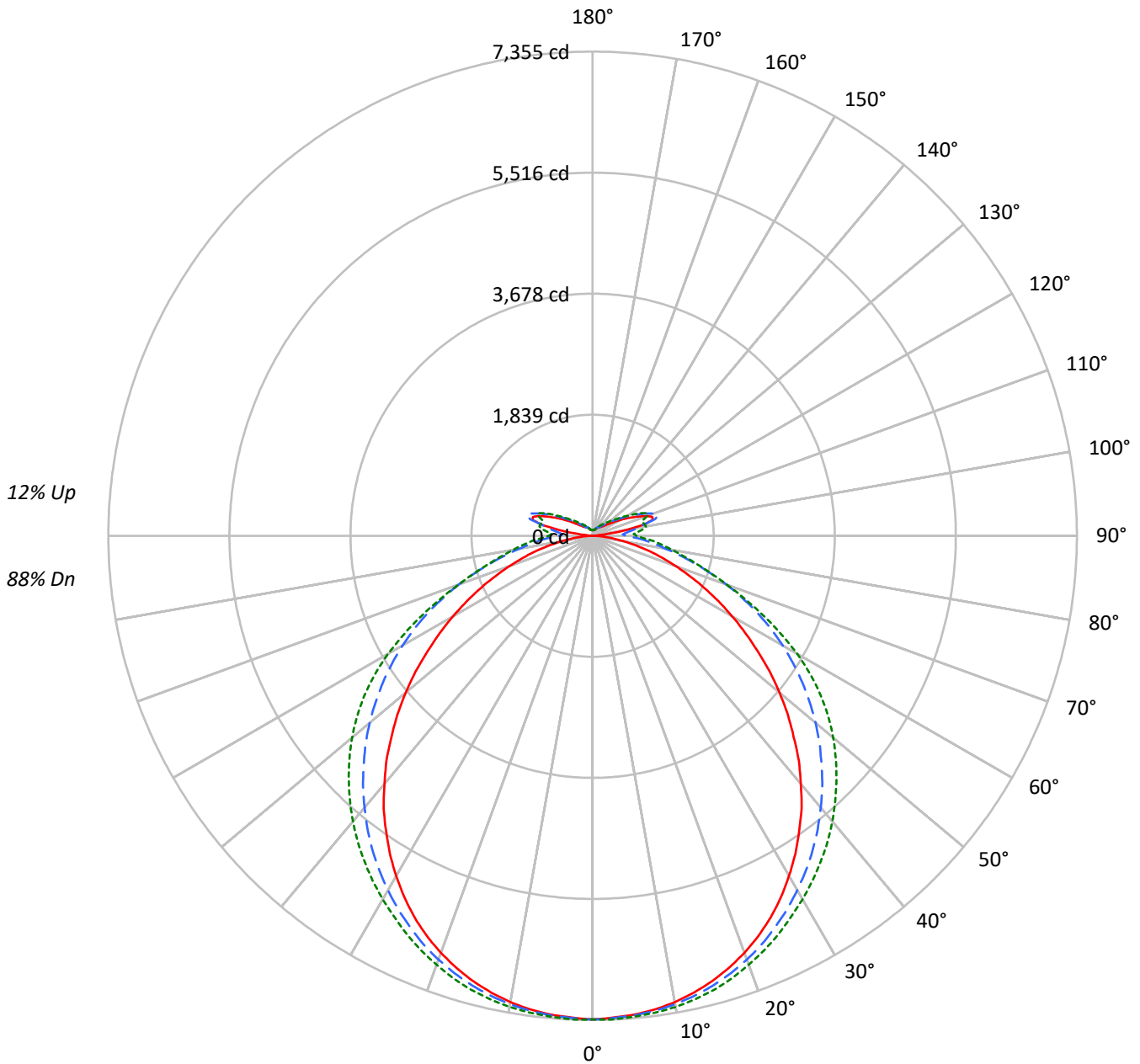
Lumens per Lamp: N/A
Luminaire Lumens: 24242.2 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 150.4
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	105	100	96	92	101	97	93	89	91	87	84	85	82	80	79	77	75	72																			
2	96	87	81	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	69	62	84	74	67	61	69	63	58	65	60	56	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	50	46	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	40	35	31	29																			
8	58	45	37	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	29	24	33	27	23	32	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11620	11620	11620
5°	11497	11510	11594
10°	11368	11408	11582
15°	11193	11287	11552
20°	10976	11139	11485
25°	10702	10953	11419
30°	10343	10752	11355
35°	9918	10539	11312
40°	9418	10291	11277
45°	8838	10023	11221
50°	8208	9751	11147
55°	7448	9419	10975
60°	6671	9028	10542
65°	5828	8528	9763
70°	4918	7890	8929
75°	3993	7154	8492
80°	2867	6622	8896
85°	1617	6883	11152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.2	2.9
10°-20°	1997.4	8.2
20°-30°	3020.6	12.5
30°-40°	3626.3	15.0
40°-50°	3745.4	15.4
50°-60°	3369.7	13.9
60°-70°	2538.3	10.5
70°-80°	1532.7	6.3
80°-90°	755.4	3.1
90°-100°	531.3	2.2
100°-110°	929.1	3.8
110°-120°	748.3	3.1
120°-130°	368.0	1.5
130°-140°	185.7	0.8
140°-150°	104.7	0.4
150°-160°	57.8	0.2
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	5714.2	23.6
0°-40°	9340.5	38.5
0°-60°	16455.6	67.9
0°-90°	21282.0	87.8
90°-120°	2208.6	9.1
90°-150°	2867.1	11.8
90°-180°	2960.0	12.2
0°-180°	24242.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7348	7348	7348	7348	7348	
5°	7301	7321	7312	7340	7331	694
15°	7006	7040	7072	7132	7139	1975
25°	6398	6468	6560	6662	6679	2943
35°	5470	5598	5828	6004	6040	3420
45°	4318	4535	4914	5182	5238	3333
55°	3059	3375	3888	4181	4231	2742
65°	1867	2248	2751	2888	2856	1854
75°	879	1262	1593	1635	1618	938
85°	183	484	798	908	924	212
90°	5	220	500	633	663	15
95°	58	231	502	647	691	161
105°	946	997	983	818	783	898
115°	658	692	773	812	814	664
125°	329	351	412	443	446	308
135°	199	206	234	263	272	157
145°	153	155	159	175	181	97
155°	126	130	130	129	131	56
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°	7347.6	7347.6	7347.6	7347.6	7347.6
2.5°	7326.0	7343.9	7333.2	7356.5	7354.7
5°	7300.8	7320.6	7311.6	7340.3	7331.4
7.5°	7257.6	7279.2	7277.4	7309.8	7306.2
10°	7194.7	7218.0	7225.3	7268.4	7268.4
12.5°	7108.4	7138.9	7156.9	7209.1	7210.9
15°	7005.9	7040.0	7072.4	7131.8	7138.9
17.5°	6881.8	6925.0	6970.0	7038.3	7047.3
20°	6741.5	6790.1	6851.2	6923.1	6933.9
22.5°	6579.7	6637.3	6716.4	6800.9	6813.4
25°	6398.1	6468.2	6560.0	6662.4	6678.6
27.5°	6191.3	6272.2	6396.3	6511.4	6525.8
30°	5966.5	6061.8	6216.5	6353.1	6376.5
32.5°	5729.2	5838.9	6029.4	6182.3	6214.6
35°	5470.2	5597.8	5828.1	6004.3	6040.2
37.5°	5214.8	5355.1	5615.8	5817.3	5860.5
40°	4916.3	5090.8	5389.3	5612.3	5664.4
42.5°	4635.8	4824.7	5162.7	5405.5	5455.8
45°	4317.5	4535.2	4914.5	5182.4	5238.2
47.5°	4019.1	4254.6	4675.4	4952.3	5009.8
50°	3704.4	3963.3	4420.0	4709.5	4768.9
52.5°	3389.6	3668.3	4155.7	4456.0	4511.7
55°	3058.7	3375.3	3887.8	4180.9	4231.2
57.5°	2751.3	3085.7	3612.6	3891.4	3921.9
60°	2447.4	2794.5	3332.1	3576.7	3587.5
62.5°	2150.7	2515.8	3044.4	3238.6	3224.2
65°	1866.6	2247.8	2751.3	2888.0	2855.6
67.5°	1593.2	1987.0	2451.0	2539.1	2495.9
70°	1334.3	1733.5	2159.6	2204.6	2165.0
72.5°	1105.9	1492.5	1864.7	1902.5	1873.8
75°	879.4	1262.4	1593.2	1634.6	1618.4
77.5°	667.1	1039.3	1343.3	1397.2	1400.9
80°	480.2	836.2	1125.7	1210.2	1221.0
82.5°	316.5	649.2	944.0	1052.0	1068.2
85°	183.4	483.7	798.4	908.1	924.3
87.5°	79.1	348.9	642.0	740.9	760.6
90°	4.7	220.4	500.5	633.2	663.0
92.5°	21.2	198.3	459.0	594.8	626.7
95°	58.3	231.0	501.8	647.3	691.4
97.5°	261.1	378.6	587.9	732.1	779.0
100°	524.5	638.8	697.3	798.0	820.8
102.5°	804.6	871.8	799.9	806.9	812.0
105°	945.9	996.8	983.2	818.2	783.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	766.3	811.6	884.9	910.2	887.6
115°	658.4	691.8	772.7	812.3	813.9
117.5°	567.1	587.7	663.4	702.1	708.4
120°	472.2	496.8	569.9	601.2	602.8
122.5°	398.6	418.8	483.7	516.0	515.8
125°	329.0	351.1	411.5	442.9	445.6
127.5°	278.7	294.4	350.4	383.8	388.2
130°	244.3	253.6	302.4	333.9	340.2
132.5°	218.2	228.4	263.6	296.1	302.4
135°	198.7	206.0	234.1	263.0	272.0
137.5°	182.9	189.3	209.3	237.2	244.4
140°	170.8	176.2	189.9	213.3	221.5
142.5°	160.4	164.2	171.5	193.1	198.5
145°	152.9	154.8	159.4	174.8	181.1
147.5°	144.5	148.2	150.1	159.2	164.6
150°	138.0	141.7	142.7	145.4	151.8
152.5°	131.5	135.2	136.1	135.3	138.9
155°	125.9	129.6	129.6	128.8	130.6
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°	949.6	1005.6	1042.6	908.5	804.0
110°	877.0	930.4	985.6	964.3	882.2



(END OF REPORT)