

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: P826533

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826533
REPORT IS A COMBINATION OF REPORTS P826073 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-MFL-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

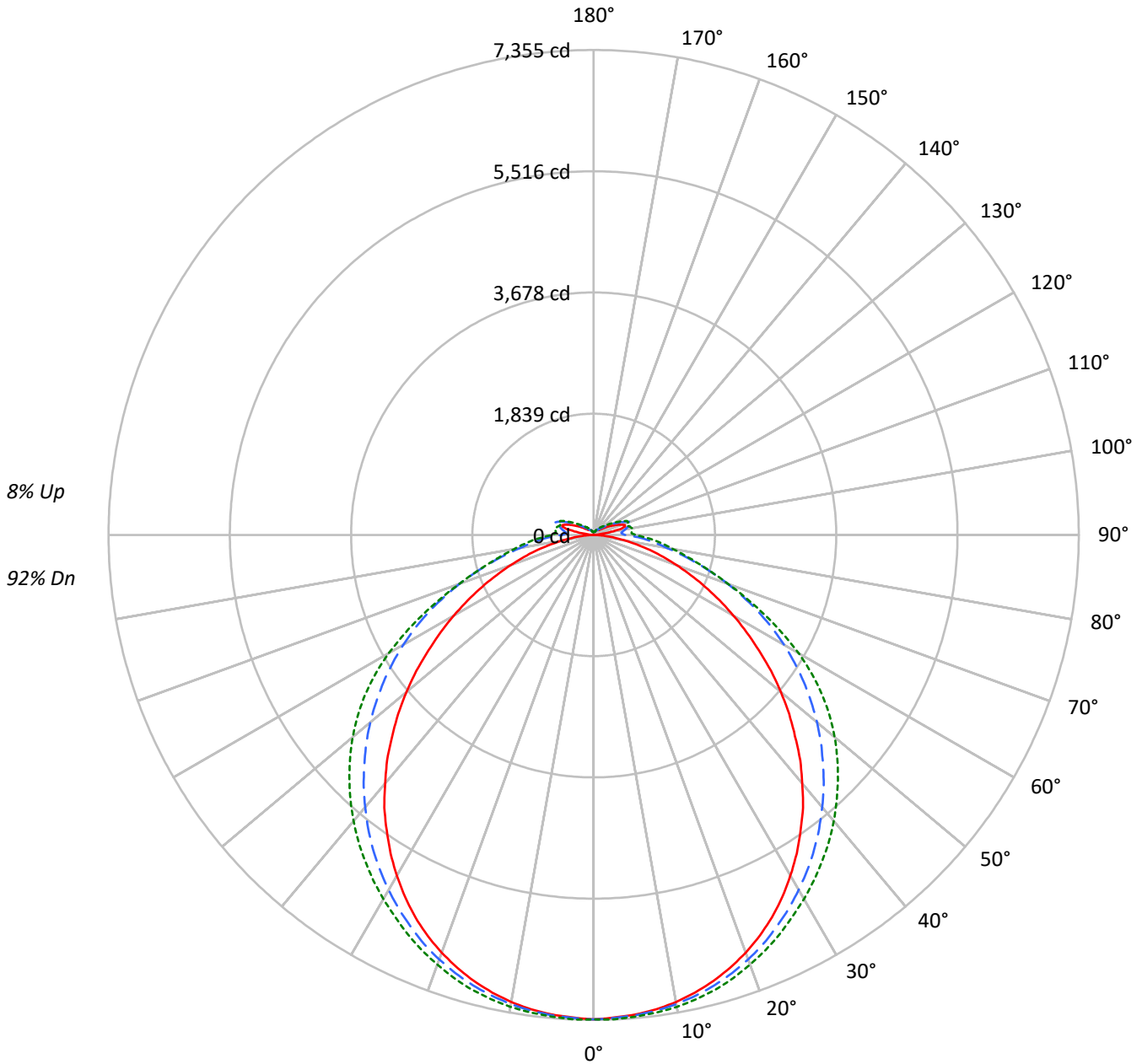
Lumens per Lamp: N/A
Luminaire Lumens: 23148.8 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	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	69	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	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	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	27	36	30	26	24																			
10	52	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°	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	3.0
10°-20°	1997.4	8.6
20°-30°	3020.6	13.0
30°-40°	3626.3	15.7
40°-50°	3745.4	16.2
50°-60°	3369.7	14.6
60°-70°	2538.3	11.0
70°-80°	1532.7	6.6
80°-90°	752.6	3.3
90°-100°	426.2	1.8
100°-110°	565.3	2.4
110°-120°	436.6	1.9
120°-130°	218.4	0.9
130°-140°	110.8	0.5
140°-150°	61.5	0.3
150°-160°	32.6	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	5714.2	24.7
0°-40°	9340.5	40.3
0°-60°	16455.6	71.1
0°-90°	21279.2	91.9
90°-120°	1428.1	6.2
90°-150°	1818.7	7.9
90°-180°	1870.0	8.1
0°-180°	23148.8	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°	3	206	479	604	631	13
95°	32	182	422	543	576	84
105°	494	549	604	546	534	468
115°	349	376	458	497	498	350
125°	178	190	248	278	285	166
135°	108	114	139	167	174	85
145°	88	88	90	106	112	55
155°	74	77	76	75	77	32
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



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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°	2.8	205.6	479.0	604.3	631.4
92.5°	13.8	177.8	427.4	550.1	574.6
95°	32.3	181.6	421.7	543.1	576.0
97.5°	136.4	244.6	451.1	561.8	587.3
100°	267.6	369.9	487.0	572.8	591.8
102.5°	419.3	485.7	518.9	557.5	565.4
105°	493.7	549.2	603.6	546.5	534.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	403.4	440.3	525.7	557.5	548.8
115°	349.4	376.3	458.2	496.8	498.4
117.5°	297.2	320.7	395.4	432.2	435.8
120°	251.6	271.6	338.2	370.5	377.6
122.5°	214.4	228.1	290.1	321.5	327.8
125°	178.2	190.1	247.7	278.2	284.6
127.5°	149.4	158.6	211.8	243.2	248.6
130°	131.7	137.3	181.5	212.9	218.3
132.5°	118.6	125.1	157.5	187.2	195.4
135°	107.5	113.9	139.2	167.1	174.3
137.5°	100.0	105.5	122.7	148.8	156.9
140°	94.5	99.0	109.9	132.3	139.6
142.5°	90.6	92.5	98.0	118.6	125.0
145°	87.8	87.8	90.5	105.9	112.2
147.5°	83.1	85.0	86.8	94.1	100.4
150°	80.3	83.1	82.2	85.0	90.4
152.5°	76.6	79.4	78.4	77.6	81.2
155°	73.8	76.6	75.7	74.8	76.6
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	496.5	550.5	622.0	577.2	526.7
110°	455.5	507.0	583.6	595.8	557.4



(END OF REPORT)