

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: P826535

Luminaire Tested: **OHBL-24HE-MFL-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826535
REPORT IS A COMBINATION OF REPORTS P826301 AND G3-2310-221-2
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-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

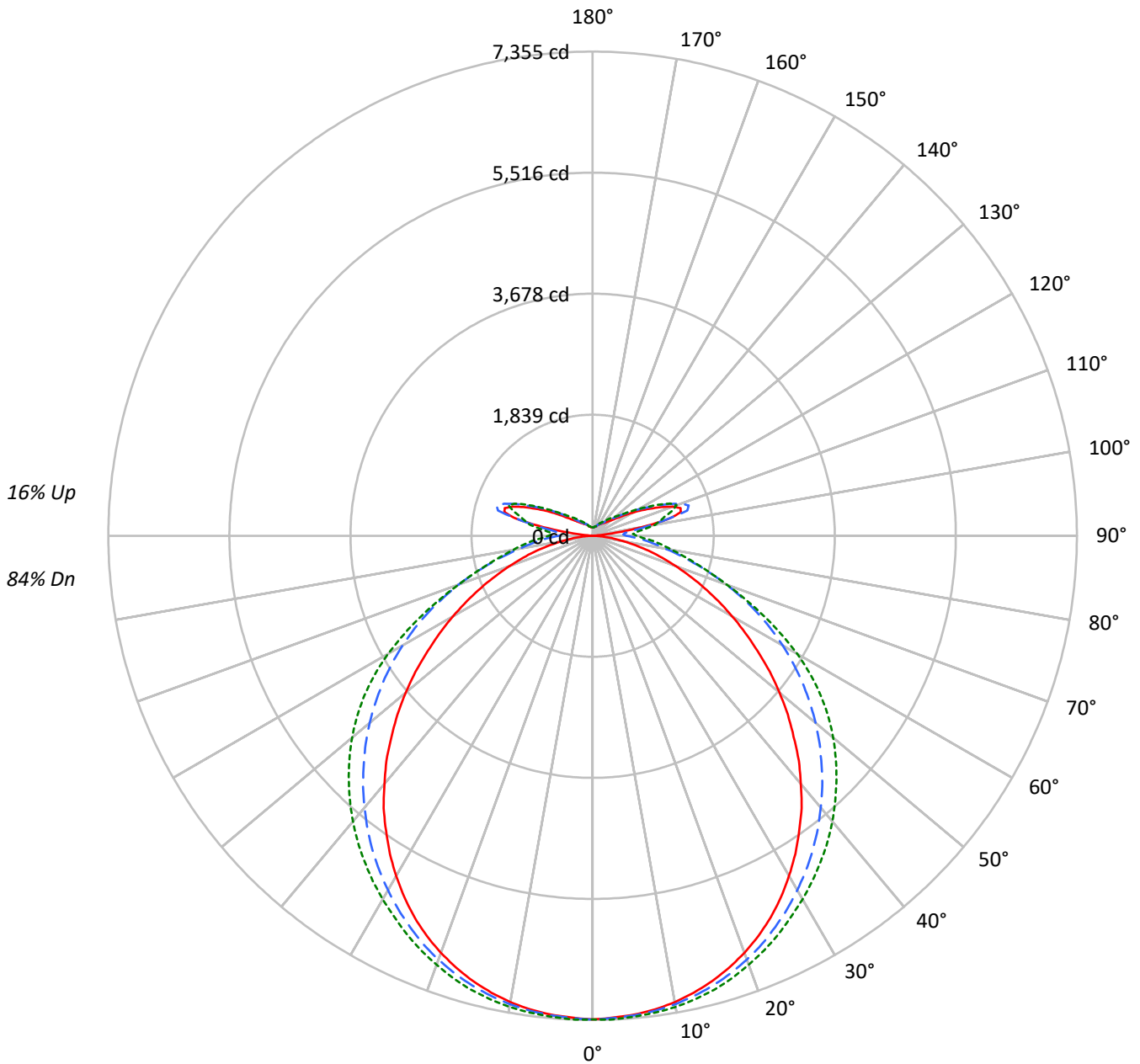
Lumens per Lamp: N/A
Luminaire Lumens: 25323.3 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 161.8
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				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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84			
1	105	100	95	91	100	96	92	88	89	86	83	82	80	77	76	74	72	69			
2	95	87	80	74	91	84	77	72	77	72	68	72	68	64	67	63	60	57			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	55	51	48			
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41			
5	73	60	51	45	70	58	50	44	54	47	42	50	45	40	47	42	38	36			
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31			
7	62	49	40	34	59	47	39	34	44	37	32	42	35	31	39	34	30	27			
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	30	27	24			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22			
10	51	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20			

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	2.7
10°-20°	1997.4	7.9
20°-30°	3020.6	11.9
30°-40°	3626.3	14.3
40°-50°	3745.4	14.8
50°-60°	3369.7	13.3
60°-70°	2538.3	10.0
70°-80°	1532.7	6.1
80°-90°	756.8	3.0
90°-100°	571.5	2.3
100°-110°	1339.7	5.3
110°-120°	1065.4	4.2
120°-130°	514.0	2.0
130°-140°	261.4	1.0
140°-150°	149.7	0.6
150°-160°	84.5	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.0
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0°-30°	5714.2	22.6
0°-40°	9340.5	36.9
0°-60°	16455.6	65.0
0°-90°	21283.5	84.0
90°-120°	2976.6	11.8
90°-150°	3901.8	15.4
90°-180°	4040.0	16.0
0°-180°	25323.3	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°	7	234	515	642	667	17
95°	67	243	495	630	662	222
105°	1387	1445	1488	1218	1136	1319
115°	973	987	1075	1123	1121	984
125°	486	508	573	597	594	457
135°	292	302	331	361	369	231
145°	221	224	230	247	254	140
155°	182	186	187	187	189	82
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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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°	7.4	234.4	515.3	642.5	666.7
92.5°	28.7	212.3	463.7	589.2	614.6
95°	66.7	243.1	495.2	630.5	661.6
97.5°	358.8	481.9	621.4	767.4	806.0
100°	758.0	860.3	851.7	932.0	965.0
102.5°	1181.4	1269.2	1162.8	1067.4	1052.1
105°	1387.0	1445.3	1487.6	1218.4	1136.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1140.4	1177.3	1255.2	1298.2	1275.6
115°	972.9	986.8	1075.2	1123.1	1120.9
117.5°	836.0	846.4	925.8	961.7	956.9
120°	705.7	720.2	794.1	817.1	816.8
122.5°	587.6	609.6	675.4	700.2	693.5
125°	486.2	508.4	573.4	597.4	593.5
127.5°	417.4	426.6	486.3	514.0	519.4
130°	360.6	369.9	419.7	452.1	455.6
132.5°	321.5	332.6	370.6	402.2	412.2
135°	291.7	301.9	330.9	360.7	368.8
137.5°	267.5	276.7	296.8	326.5	334.6
140°	248.9	256.3	270.9	296.1	303.4
142.5°	233.9	239.5	247.8	270.3	275.7
145°	220.8	223.7	230.1	247.3	253.7
147.5°	209.7	213.4	218.0	226.2	232.5
150°	199.4	204.1	205.9	209.7	216.0
152.5°	190.1	194.8	196.6	195.8	200.3
155°	181.7	186.4	187.3	187.4	189.2
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1400.0	1455.0	1531.1	1425.0	1272.1
110°	1293.0	1350.0	1425.8	1423.1	1358.6



(END OF REPORT)