

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: P826505

Luminaire Tested: **OHBL-18HE-NL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826505
REPORT IS A COMBINATION OF REPORTS P826231 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-18HE-NL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

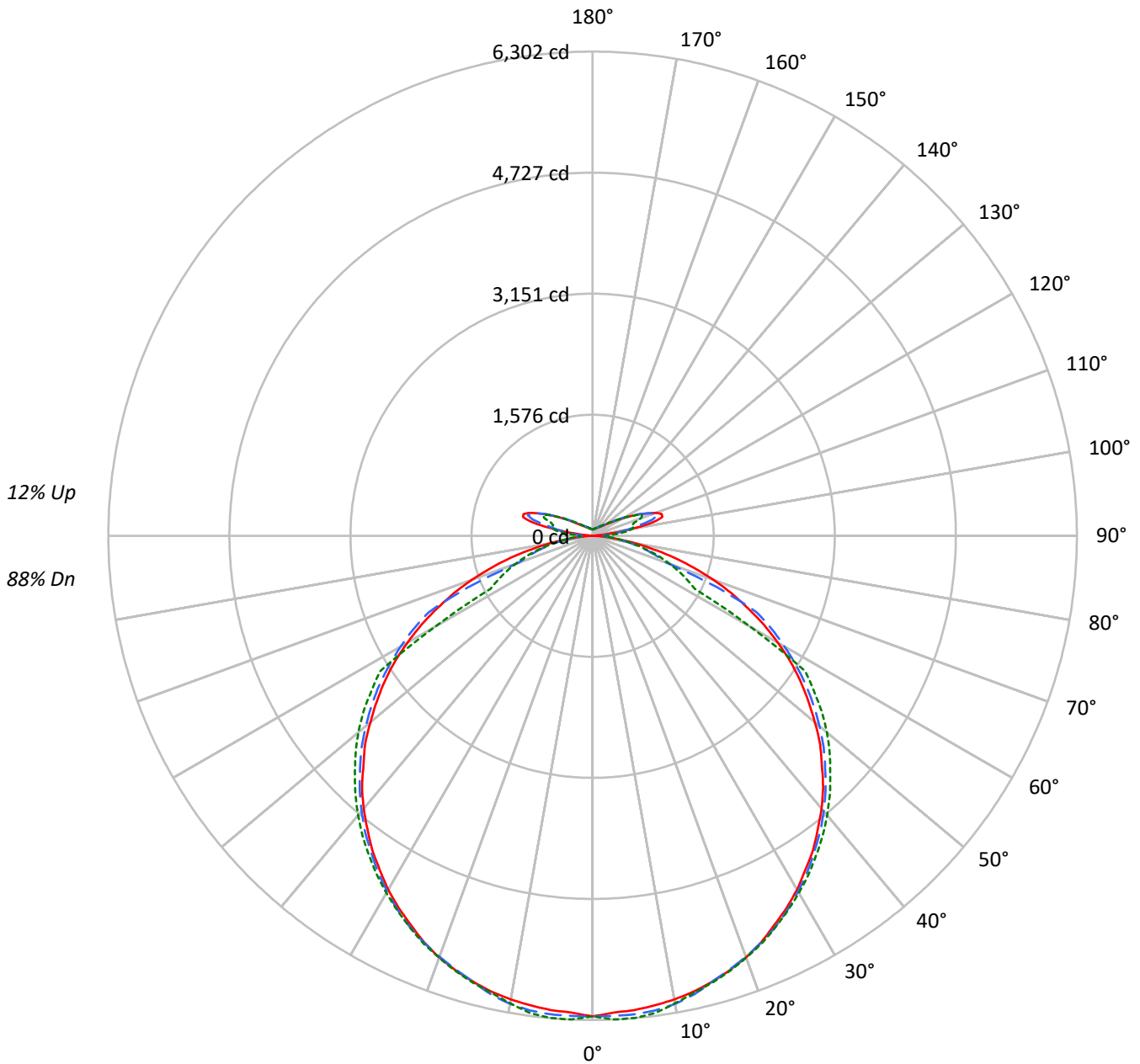
Lumens per Lamp: N/A
Luminaire Lumens: 19815.5 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 120.4
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88			88
1	107	102	98	94	103	99	95	92	92	89	87	86	84	82	81	79	78	75			75
2	97	89	83	77	93	86	81	75	81	76	72	76	72	69	71	68	65	63			63
3	89	79	71	64	85	76	69	63	71	65	61	67	62	58	63	59	56	53			53
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	56	52	48	45			45
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	39			39
6	69	56	47	41	66	54	46	40	51	44	39	49	42	38	46	41	37	34			34
7	64	51	42	36	61	49	41	36	47	40	34	44	38	33	42	37	32	30			30
8	59	46	38	32	57	45	37	32	43	36	31	40	34	30	38	33	29	27			27
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24			24
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	28	24	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10685	10685	10685
5°	10570	10665	10778
10°	10517	10615	10666
15°	10458	10454	10573
20°	10385	10365	10521
25°	10253	10300	10472
30°	10139	10185	10427
35°	10003	10050	10386
40°	9838	9922	10355
45°	9607	9742	10291
50°	9361	9540	10250
55°	9062	9283	10076
60°	8614	8904	7784
65°	7971	8416	5185
70°	7144	4327	4957
75°	5930	3910	4622
80°	4165	3271	4046
85°	1672	2621	3500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.3	3.0
10°-20°	1701.7	8.6
20°-30°	2589.2	13.1
30°-40°	3148.1	15.9
40°-50°	3310.1	16.7
50°-60°	3022.5	15.3
60°-70°	1937.6	9.8
70°-80°	915.3	4.6
80°-90°	259.5	1.3
90°-100°	282.9	1.4
100°-110°	767.4	3.9
110°-120°	647.6	3.3
120°-130°	308.2	1.6
130°-140°	154.2	0.8
140°-150°	89.4	0.5
150°-160°	52.1	0.3
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	4885.2	24.7
0°-40°	8033.3	40.5
0°-60°	14365.9	72.5
0°-90°	17478.3	88.2
90°-120°	1698.0	8.6
90°-150°	2249.8	11.4
90°-180°	2337.0	11.8
0°-180°	19815.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6256	6256	6256	6256	6256	
5°	6197	6222	6253	6288	6301	589
15°	6010	6055	6009	6017	6022	1697
25°	5593	5601	5621	5630	5626	2581
35°	4999	4969	5026	5088	5073	3124
45°	4216	4208	4280	4381	4373	3259
55°	3304	3279	3390	3503	3512	2947
65°	2226	2226	2356	1351	1356	2207
75°	1100	1121	728	766	770	1159
85°	144	182	227	246	233	213
90°	5	93	145	177	182	10
95°	53	135	232	310	338	155
105°	939	935	803	577	530	891
115°	649	658	661	656	644	653
125°	314	331	338	337	334	295
135°	186	190	196	198	200	147
145°	135	139	141	142	143	86
155°	108	110	112	113	113	51
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°	6255.6	6255.6	6255.6	6255.6	6255.6
2.5°	6211.6	6232.6	6255.6	6285.3	6301.6
5°	6197.4	6221.5	6253.4	6287.5	6300.6
7.5°	6166.7	6200.7	6231.5	6255.6	6263.3
10°	6128.3	6168.9	6186.4	6184.3	6178.8
12.5°	6076.6	6119.5	6114.0	6088.7	6093.1
15°	6009.7	6054.7	6008.7	6017.3	6021.8
17.5°	5930.7	5974.6	5920.8	5938.3	5939.5
20°	5838.5	5871.4	5829.7	5844.0	5844.0
22.5°	5727.7	5750.6	5733.2	5743.0	5745.2
25°	5592.6	5601.3	5621.1	5630.0	5625.5
27.5°	5463.1	5452.1	5490.6	5511.4	5500.3
30°	5319.2	5301.7	5346.7	5380.8	5367.6
32.5°	5154.6	5143.6	5195.3	5235.9	5228.1
35°	4998.8	4969.2	5026.2	5087.6	5073.4
37.5°	4814.3	4796.8	4861.5	4926.4	4918.7
40°	4634.4	4604.7	4678.3	4755.0	4747.4
42.5°	4441.2	4406.0	4486.1	4578.4	4569.6
45°	4216.1	4208.4	4279.7	4380.8	4373.1
47.5°	4016.4	3977.9	4077.8	4175.5	4184.3
50°	3774.8	3760.7	3851.8	3970.3	3979.0
52.5°	3538.9	3529.0	3624.4	3744.1	3759.4
55°	3303.9	3278.7	3389.5	3502.6	3511.5
57.5°	3052.7	3026.3	3139.3	3262.3	3281.0
60°	2783.7	2758.4	2882.4	2996.7	2383.1
62.5°	2514.7	2497.1	2626.8	1860.6	1499.5
65°	2226.1	2226.1	2355.5	1351.2	1355.6
67.5°	1956.1	1938.5	1756.3	1213.9	1213.9
70°	1666.3	1672.9	1012.0	1063.7	1064.7
72.5°	1375.4	1399.6	873.8	915.4	917.6
75°	1099.8	1120.8	727.7	766.2	769.5
77.5°	807.9	621.2	585.0	614.7	615.8
80°	567.5	391.9	447.9	476.4	473.1
82.5°	331.5	274.4	328.2	349.1	347.9
85°	143.8	182.2	227.2	245.9	232.6
87.5°	46.1	113.1	141.5	152.6	151.4
90°	4.7	93.1	144.7	177.3	181.7
92.5°	15.8	90.1	154.8	204.7	217.8
95°	52.6	135.1	232.5	309.9	337.8
97.5°	252.6	293.8	342.8	429.5	462.4
100°	515.9	563.9	474.2	520.1	529.7
102.5°	799.3	804.5	595.9	550.6	544.4
105°	938.8	935.2	803.0	576.9	530.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	758.5	771.9	760.3	735.6	698.0
115°	649.4	658.1	661.3	656.2	644.0
117.5°	550.9	551.8	555.5	554.6	555.5
120°	456.0	466.2	474.6	469.9	464.3
122.5°	382.5	393.6	399.2	397.3	391.8
125°	314.5	331.3	337.8	336.9	334.1
127.5°	266.1	278.2	287.5	288.5	287.5
130°	231.7	239.2	248.5	249.4	250.3
132.5°	205.7	212.2	218.7	222.4	221.5
135°	186.1	189.8	196.3	198.2	200.1
137.5°	170.3	173.1	178.7	181.5	181.5
140°	156.3	160.1	164.7	166.6	167.5
142.5°	144.2	148.0	151.7	153.5	153.5
145°	134.9	138.7	141.4	142.4	143.3
147.5°	126.6	130.3	132.1	134.0	134.0
150°	120.0	121.9	124.7	125.6	126.6
152.5°	113.5	115.4	118.2	119.1	119.1
155°	107.9	109.8	111.7	112.6	112.6
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°	942.6	951.7	883.6	688.2	568.1
110°	871.1	882.7	844.1	768.2	669.2



(END OF REPORT)