

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: P826504

Luminaire Tested: **OHBL-18HE-NL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826504
REPORT IS A COMBINATION OF REPORTS P826159 AND G3-2310-221-8
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-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

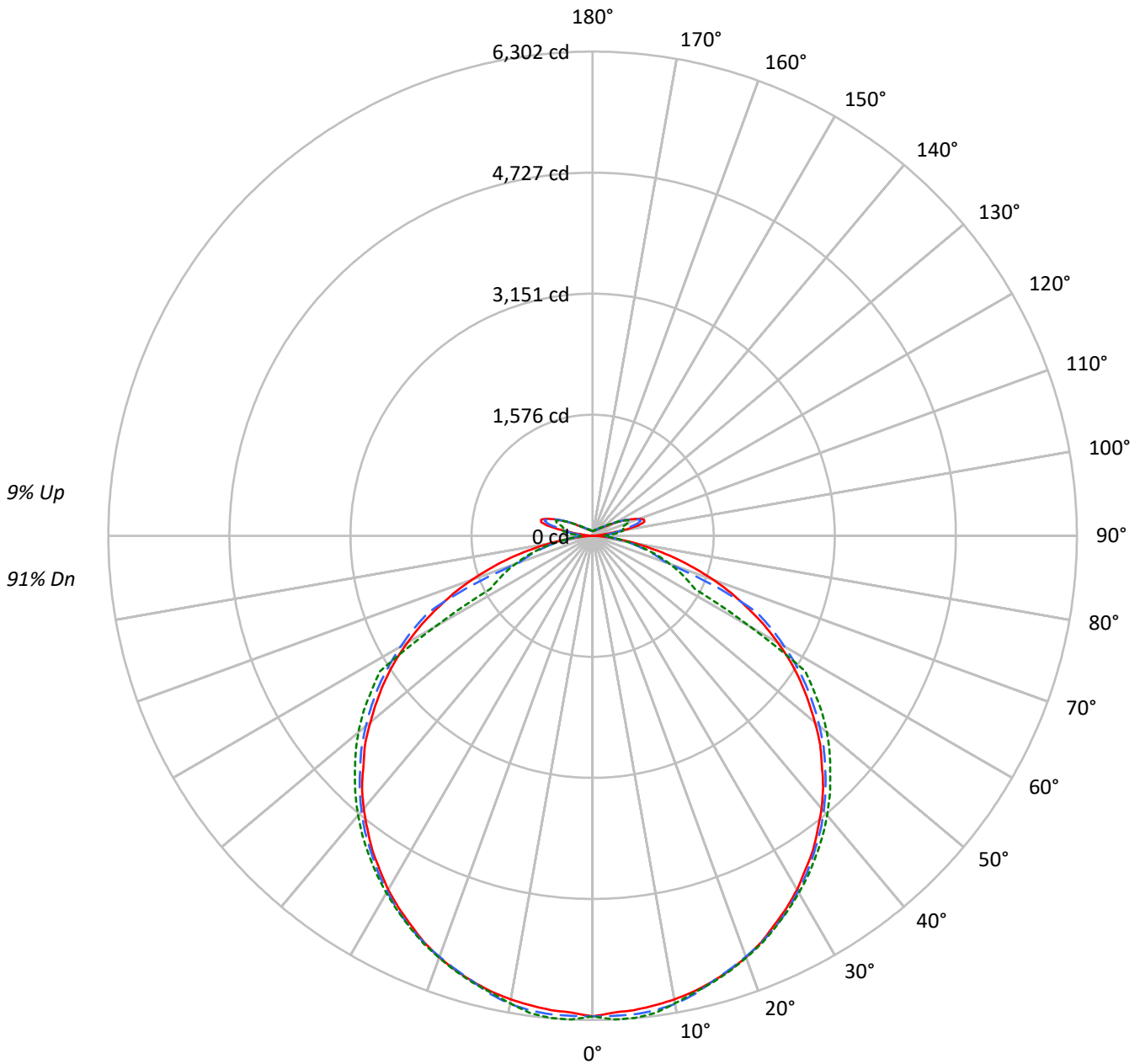
Lumens per Lamp: N/A
Luminaire Lumens: 19228.9 lumens
Efficiency: N/A
Efficacy: 166.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 115.3
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

TEST NUMBER: P826504

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL18

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	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	65																			
3	89	79	71	65	86	77	70	64	73	66	61	69	64	59	65	61	57	55																			
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	63	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	50	43	39	47	42	38	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	38	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	42	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

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



TEST NUMBER: P826504

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.3	3.1
10°-20°	1701.7	8.8
20°-30°	2589.2	13.5
30°-40°	3148.1	16.4
40°-50°	3310.1	17.2
50°-60°	3022.5	15.7
60°-70°	1937.6	10.1
70°-80°	915.3	4.8
80°-90°	258.0	1.3
90°-100°	226.5	1.2
100°-110°	571.7	3.0
110°-120°	480.5	2.5
120°-130°	228.3	1.2
130°-140°	114.0	0.6
140°-150°	66.2	0.3
150°-160°	38.6	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	4885.2	25.4
0°-40°	8033.3	41.8
0°-60°	14365.9	74.7
0°-90°	17476.8	90.9
90°-120°	1278.7	6.7
90°-150°	1687.3	8.8
90°-180°	1752.0	9.1
0°-180°	19228.9	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°	4	85	133	162	164	9
95°	39	108	192	253	275	113
105°	695	695	600	428	395	660
115°	483	491	493	484	476	485
125°	233	244	250	249	248	219
135°	138	140	145	147	148	109
145°	100	102	105	106	106	64
155°	80	82	83	84	84	38
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



TEST NUMBER: P826504

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL18

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°	3.7	84.8	132.6	161.5	164.1
92.5°	12.1	78.9	139.0	180.5	189.0
95°	38.6	108.1	192.5	253.1	275.4
97.5°	183.7	221.2	273.0	339.2	356.3
100°	376.3	411.3	363.5	400.0	406.8
102.5°	590.8	599.7	443.3	416.6	412.2
105°	695.0	695.1	600.1	428.0	395.2



TEST NUMBER: P826504

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	566.8	572.8	564.8	546.7	515.6
115°	482.9	490.6	492.9	484.1	476.5
117.5°	406.7	409.4	411.3	409.4	410.4
120°	339.7	346.2	349.9	347.1	345.2
122.5°	283.8	292.2	296.8	294.1	292.2
125°	232.6	243.8	250.3	249.4	247.5
127.5°	197.3	205.7	214.0	213.1	211.2
130°	171.2	177.7	183.3	184.2	185.2
132.5°	153.5	156.3	161.9	162.8	164.7
135°	137.7	140.5	145.2	147.0	148.0
137.5°	125.6	128.4	132.1	134.0	134.9
140°	115.4	118.2	121.0	122.8	123.8
142.5°	107.0	109.8	112.6	113.5	114.5
145°	100.5	102.4	105.2	106.1	106.1
147.5°	94.0	95.8	97.7	99.6	99.6
150°	88.4	90.3	92.1	93.1	94.0
152.5°	84.7	85.6	87.5	88.4	88.4
155°	80.0	81.9	82.8	83.8	83.8
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	701.5	706.9	657.4	508.6	421.1
110°	644.0	654.7	630.1	570.0	497.9



(END OF REPORT)