

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: P826498

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826498  
REPORT IS A COMBINATION OF REPORTS P826157 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-MFL-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

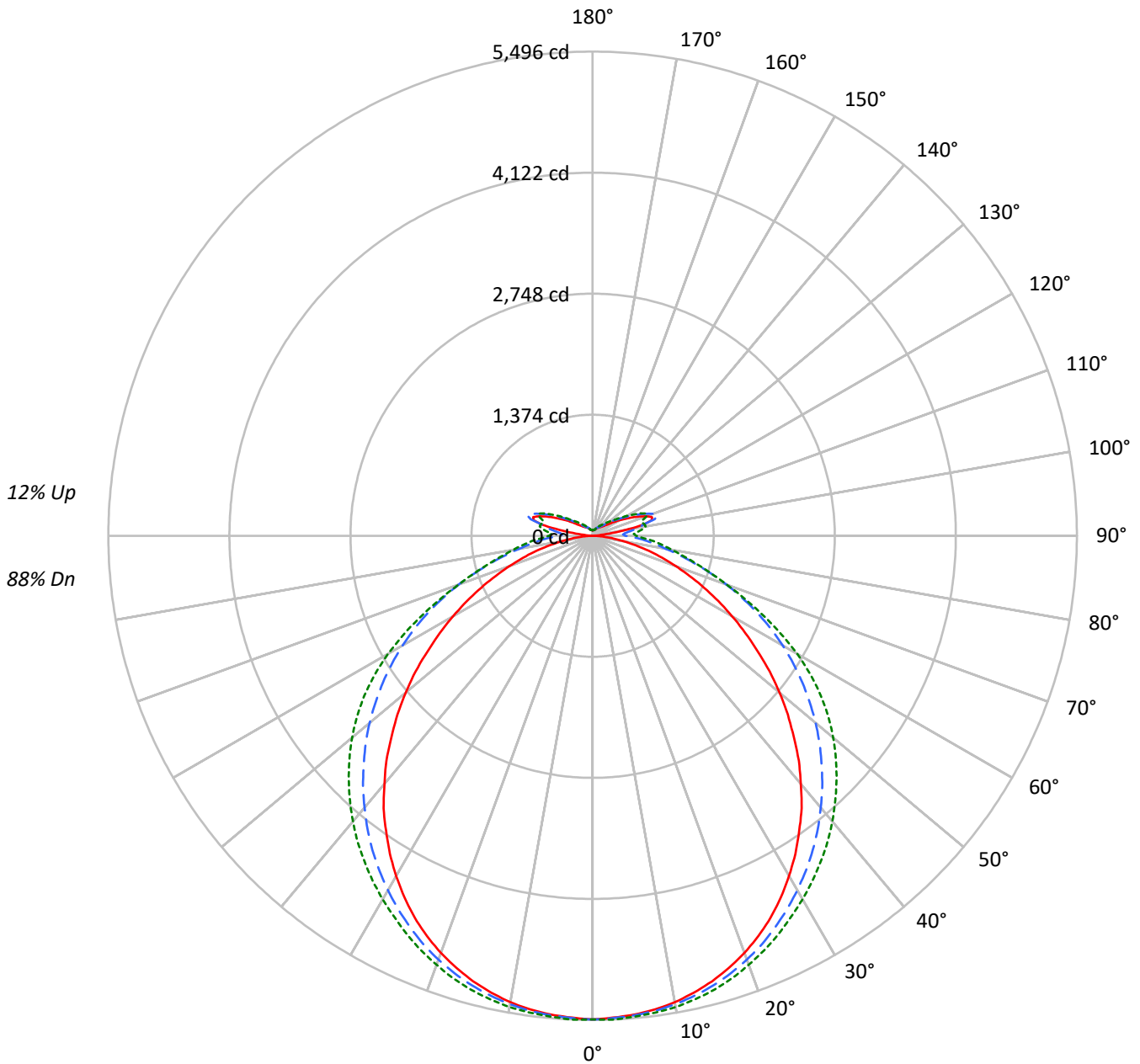
Lumens per Lamp: N/A  
Luminaire Lumens: 18099.2 lumens  
Efficiency: N/A  
Efficacy: 157.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 115.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	101	96	92	101	97	93	89	91	87	84	85	82	80	79	77	75	72																			
2	96	87	81	75	92	85	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	41	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	28	23	32	27	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9379	9379	9379
5°	9273	9285	9358
10°	9164	9199	9348
15°	9016	9097	9324
20°	8836	8974	9270
25°	8609	8820	9216
30°	8314	8653	9165
35°	7966	8477	9130
40°	7558	8272	9102
45°	7085	8051	9057
50°	6572	7827	8997
55°	5956	7553	8858
60°	5325	7230	8509
65°	4642	6819	7880
70°	3906	6297	7207
75°	3158	5692	6853
80°	2252	5244	7180
85°	1254	5402	9002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.3	2.9
10°-20°	1492.7	8.2
20°-30°	2257.4	12.5
30°-40°	2710.0	15.0
40°-50°	2799.0	15.5
50°-60°	2518.2	13.9
60°-70°	1897.0	10.5
70°-80°	1145.4	6.3
80°-90°	564.4	3.1
90°-100°	395.1	2.2
100°-110°	687.9	3.8
110°-120°	554.4	3.1
120°-130°	273.0	1.5
130°-140°	137.6	0.8
140°-150°	77.7	0.4
150°-160°	42.9	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	4270.4	23.6
0°-40°	6980.4	38.6
0°-60°	12297.7	67.9
0°-90°	15904.4	87.9
90°-120°	1637.5	9.0
90°-150°	2125.7	11.7
90°-180°	2195.0	12.1
0°-180°	18099.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5491	5491	5491	5491	5491	
5°	5456	5471	5464	5486	5479	518
15°	5236	5261	5285	5330	5335	1476
25°	4782	4834	4902	4979	4991	2199
35°	4088	4183	4356	4487	4514	2556
45°	3227	3389	3673	3873	3915	2491
55°	2286	2522	2905	3124	3162	2050
65°	1395	1680	2056	2158	2134	1386
75°	657	943	1191	1222	1209	701
85°	137	362	597	679	691	158
90°	4	164	373	472	494	11
95°	42	172	375	481	515	117
105°	699	738	730	604	580	664
115°	488	514	573	599	603	493
125°	243	259	305	329	331	229
135°	147	153	173	195	202	116
145°	114	114	119	130	134	72
155°	93	97	96	96	97	42
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5491.0	5491.0	5491.0	5491.0	5491.0
2.5°	5474.8	5488.3	5480.2	5497.7	5496.3
5°	5456.0	5470.8	5464.1	5485.6	5478.9
7.5°	5423.8	5439.9	5438.5	5462.7	5460.1
10°	5376.8	5394.2	5399.6	5431.8	5431.8
12.5°	5312.3	5335.1	5348.6	5387.5	5388.8
15°	5235.7	5261.2	5285.4	5329.8	5335.1
17.5°	5142.9	5175.2	5208.8	5259.9	5266.6
20°	5038.1	5074.4	5120.1	5173.9	5181.9
22.5°	4917.1	4960.1	5019.3	5082.4	5091.9
25°	4781.5	4833.9	4902.4	4978.9	4991.0
27.5°	4626.9	4687.4	4780.1	4866.1	4876.9
30°	4458.9	4530.1	4645.7	4747.9	4765.3
32.5°	4281.5	4363.5	4505.9	4620.2	4644.4
35°	4088.0	4183.4	4355.5	4487.1	4514.0
37.5°	3897.2	4002.0	4196.9	4347.4	4379.7
40°	3674.1	3804.5	4027.5	4194.2	4233.2
42.5°	3464.5	3605.5	3858.2	4039.6	4077.2
45°	3226.6	3389.2	3672.7	3873.0	3914.7
47.5°	3003.6	3179.5	3494.0	3701.0	3744.0
50°	2768.3	2961.9	3303.2	3519.5	3563.9
52.5°	2533.2	2741.5	3105.6	3330.1	3371.8
55°	2285.9	2522.5	2905.4	3124.4	3162.1
57.5°	2056.1	2306.0	2699.8	2908.1	2931.0
60°	1829.0	2088.4	2490.2	2672.9	2681.0
62.5°	1607.3	1880.1	2275.1	2420.3	2409.5
65°	1394.9	1679.8	2056.1	2158.2	2134.0
67.5°	1190.6	1485.0	1831.7	1897.5	1865.3
70°	997.2	1295.5	1614.0	1647.5	1618.0
72.5°	826.4	1115.4	1393.6	1421.8	1400.3
75°	657.2	943.4	1190.6	1221.5	1209.4
77.5°	498.6	776.7	1003.9	1044.2	1046.9
80°	358.8	624.9	841.2	904.4	912.5
82.5°	236.5	485.1	705.5	786.1	798.2
85°	137.1	361.5	596.7	678.7	690.8
87.5°	59.1	260.7	479.8	553.7	568.5
90°	3.7	164.3	373.0	471.9	494.0
92.5°	16.1	147.6	344.1	444.3	466.6
95°	42.1	171.7	375.4	480.6	515.1
97.5°	189.6	278.8	443.2	546.0	572.9
100°	382.2	462.6	521.6	593.9	610.2
102.5°	593.4	646.2	590.4	599.3	603.1
105°	698.9	738.1	730.4	603.9	580.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	571.0	600.2	654.9	674.9	657.1
115°	488.2	513.9	573.4	598.7	603.2
117.5°	418.8	436.3	491.9	519.6	524.6
120°	351.8	369.1	421.1	445.2	448.7
122.5°	295.9	311.0	360.0	382.7	384.9
125°	243.4	258.6	305.4	328.7	330.8
127.5°	206.7	217.8	261.0	284.3	286.5
130°	180.6	188.5	223.6	247.4	252.4
132.5°	162.9	168.4	195.5	217.9	225.2
135°	147.1	152.6	173.4	195.4	201.7
137.5°	135.0	140.5	155.0	175.7	181.9
140°	126.2	130.3	139.8	157.7	164.1
142.5°	119.1	121.9	127.4	143.1	148.1
145°	113.9	114.5	118.6	130.3	134.3
147.5°	107.4	109.2	111.1	118.4	122.5
150°	101.8	105.1	105.5	107.9	112.8
152.5°	98.1	100.4	100.9	100.5	103.2
155°	93.4	96.7	96.2	95.8	97.2
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°	705.5	744.4	772.5	670.8	596.6
110°	646.8	687.9	732.5	714.3	656.9



(END OF REPORT)