

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: P826499

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826499
REPORT IS A COMBINATION OF REPORTS P826229 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-MFL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

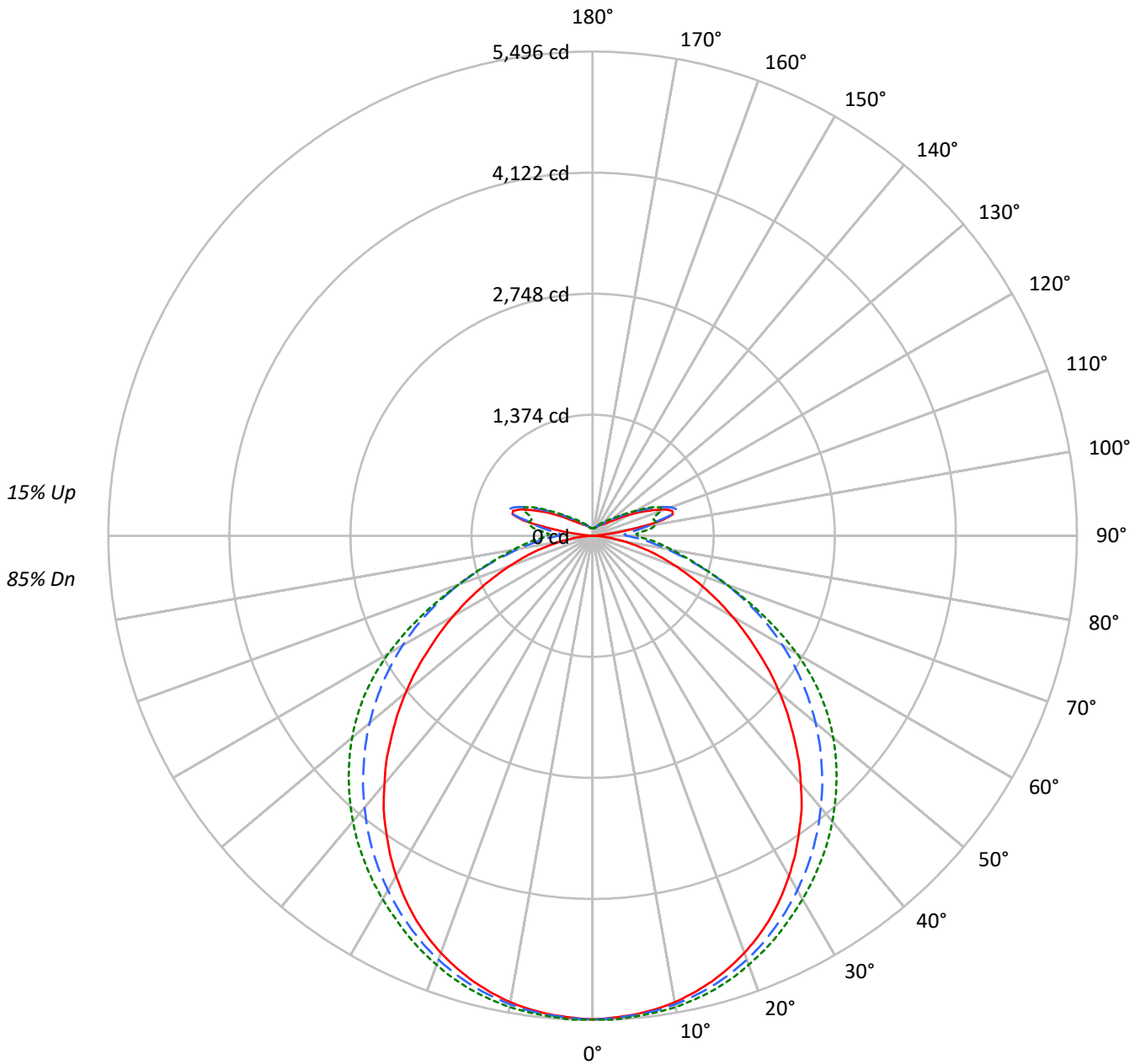
Lumens per Lamp: N/A
Luminaire Lumens: 18685.8 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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									
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	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70																			
2	95	87	80	74	91	84	78	72	78	73	68	72	68	65	67	64	61	58																			
3	87	76	68	62	83	74	66	60	68	62	57	64	59	54	59	55	52	49																			
4	79	67	59	52	76	65	57	51	61	54	49	57	51	46	53	48	44	42																			
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	48	43	38	36																			
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31																			
7	62	49	40	34	60	47	39	34	45	38	32	42	36	31	39	34	30	28																			
8	58	45	36	31	56	43	35	30	41	34	29	38	32	28	36	31	27	25																			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22																			
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20																			

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	2.8
10°-20°	1492.7	8.0
20°-30°	2257.4	12.1
30°-40°	2710.0	14.5
40°-50°	2799.0	15.0
50°-60°	2518.2	13.5
60°-70°	1897.0	10.2
70°-80°	1145.4	6.1
80°-90°	566.0	3.0
90°-100°	451.5	2.4
100°-110°	883.6	4.7
110°-120°	721.5	3.9
120°-130°	352.9	1.9
130°-140°	177.8	1.0
140°-150°	100.8	0.5
150°-160°	56.3	0.3
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	4270.4	22.9
0°-40°	6980.4	37.4
0°-60°	12297.7	65.8
0°-90°	15906.0	85.1
90°-120°	2056.7	11.0
90°-150°	2688.2	14.4
90°-180°	2780.0	14.9
0°-180°	18685.8	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°	5	173	385	488	512	12
95°	56	199	415	537	577	159
105°	943	978	933	753	715	895
115°	655	681	742	771	771	660
125°	325	346	393	416	417	305
135°	196	202	224	247	254	155
145°	148	151	155	167	172	94
155°	121	125	125	125	126	55
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°	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°	4.7	172.7	385.1	487.7	511.7
92.5°	19.8	158.8	359.9	468.5	495.4
95°	56.0	198.7	415.4	537.4	577.4
97.5°	258.4	351.4	513.0	636.2	679.0
100°	521.8	615.2	632.3	713.9	733.0
102.5°	801.9	850.9	743.0	733.3	735.2
105°	942.7	978.2	933.3	752.8	715.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	762.7	799.3	850.3	863.8	839.5
115°	654.7	681.4	741.8	770.9	770.7
117.5°	563.0	578.7	636.1	664.8	669.8
120°	468.1	489.1	545.8	568.0	567.8
122.5°	394.6	412.4	462.4	486.0	484.4
125°	325.3	346.1	392.9	416.1	417.4
127.5°	275.5	290.3	334.5	359.7	362.8
130°	241.1	249.9	288.8	312.6	317.5
132.5°	215.1	224.3	252.3	277.5	282.0
135°	195.5	201.9	224.5	246.6	253.9
137.5°	179.7	185.2	201.6	223.1	228.5
140°	167.1	172.2	183.5	201.5	207.8
142.5°	156.3	160.1	166.5	183.1	187.1
145°	148.3	150.8	154.8	166.6	171.5
147.5°	140.0	143.7	145.5	152.8	156.9
150°	133.4	136.7	138.1	140.4	145.4
152.5°	126.9	130.2	131.6	131.2	133.9
155°	121.3	124.6	125.1	124.7	126.0
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°	946.5	989.2	998.6	850.4	743.6
110°	873.9	915.9	946.6	912.5	828.1



(END OF REPORT)