

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: P826517

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826517
REPORT IS A COMBINATION OF REPORTS P826235 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-18SE-MFL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

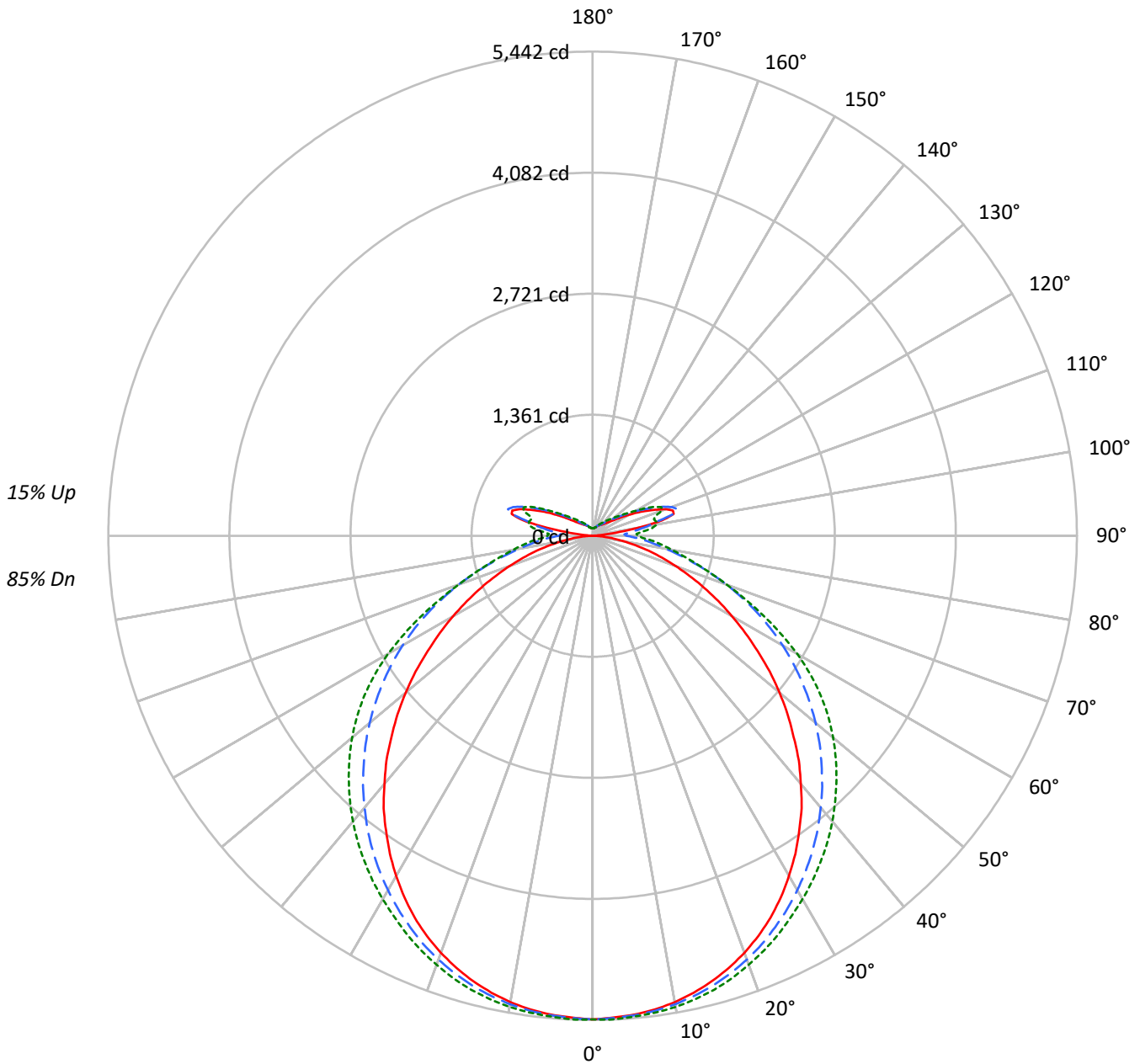
Lumens per Lamp: N/A
Luminaire Lumens: 18522.0 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): 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	115	115	115	115	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	30	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°	9285	9285	9285
5°	9181	9193	9264
10°	9072	9108	9255
15°	8926	9007	9231
20°	8748	8884	9177
25°	8524	8732	9125
30°	8231	8567	9074
35°	7887	8392	9039
40°	7482	8190	9011
45°	7014	7971	8966
50°	6507	7749	8908
55°	5897	7477	8770
60°	5272	7158	8424
65°	4596	6751	7801
70°	3867	6234	7135
75°	3126	5636	6785
80°	2229	5191	7108
85°	1241	5348	8912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.1	2.8
10°-20°	1477.8	8.0
20°-30°	2234.9	12.1
30°-40°	2683.0	14.5
40°-50°	2771.1	15.0
50°-60°	2493.1	13.5
60°-70°	1878.0	10.1
70°-80°	1134.0	6.1
80°-90°	560.4	3.0
90°-100°	449.2	2.4
100°-110°	882.3	4.8
110°-120°	720.8	3.9
120°-130°	352.5	1.9
130°-140°	177.5	1.0
140°-150°	100.7	0.5
150°-160°	56.3	0.3
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	4227.8	22.8
0°-40°	6910.8	37.3
0°-60°	12175.1	65.7
0°-90°	15747.5	85.0
90°-120°	2052.2	11.1
90°-150°	2683.0	14.5
90°-180°	2774.0	15.0
0°-180°	18522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5436	5436	5436	5436	5436	
5°	5402	5416	5410	5431	5424	513
15°	5184	5209	5233	5277	5282	1461
25°	4734	4786	4854	4929	4941	2177
35°	4047	4142	4312	4442	4469	2530
45°	3194	3355	3636	3834	3876	2466
55°	2263	2497	2876	3093	3131	2029
65°	1381	1663	2036	2137	2113	1372
75°	651	934	1179	1209	1197	694
85°	136	358	591	672	684	157
90°	5	171	382	483	507	12
95°	56	198	413	534	574	159
105°	943	978	932	751	713	895
115°	655	681	741	770	769	660
125°	325	346	392	415	416	305
135°	195	202	224	246	253	154
145°	148	151	155	166	171	94
155°	121	124	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°	5436.3	5436.3	5436.3	5436.3	5436.3
2.5°	5420.3	5433.6	5425.6	5442.9	5441.6
5°	5401.7	5416.3	5409.7	5430.9	5424.3
7.5°	5369.8	5385.7	5384.4	5408.3	5405.7
10°	5323.2	5340.5	5345.8	5377.8	5377.8
12.5°	5259.3	5281.9	5295.2	5333.9	5335.2
15°	5183.5	5208.8	5232.7	5276.6	5281.9
17.5°	5091.7	5123.6	5156.9	5207.4	5214.1
20°	4987.9	5023.8	5069.0	5122.2	5130.2
22.5°	4868.2	4910.7	4969.3	5031.8	5041.1
25°	4733.8	4785.7	4853.5	4929.3	4941.3
27.5°	4580.8	4640.7	4732.4	4817.6	4828.3
30°	4414.5	4485.0	4599.4	4700.5	4717.8
32.5°	4238.9	4320.0	4461.1	4574.1	4598.1
35°	4047.3	4141.7	4312.0	4442.4	4469.0
37.5°	3858.4	3962.1	4155.0	4304.0	4336.0
40°	3637.4	3766.5	3987.4	4152.4	4190.9
42.5°	3429.9	3569.6	3819.7	3999.3	4036.7
45°	3194.4	3355.4	3636.1	3834.4	3875.7
47.5°	2973.6	3147.9	3459.2	3664.1	3706.7
50°	2740.8	2932.4	3270.3	3484.5	3528.4
52.5°	2507.9	2714.2	3074.7	3296.9	3338.1
55°	2263.1	2497.2	2876.4	3093.4	3130.6
57.5°	2035.6	2283.1	2672.9	2879.1	2901.8
60°	1810.8	2067.5	2465.3	2646.3	2654.3
62.5°	1591.2	1861.3	2252.5	2396.2	2385.5
65°	1381.0	1663.1	2035.6	2136.7	2112.7
67.5°	1178.8	1470.2	1813.4	1878.6	1846.7
70°	987.2	1282.6	1597.9	1631.2	1601.9
72.5°	818.2	1104.3	1379.7	1407.7	1386.3
75°	650.6	934.0	1178.8	1209.4	1197.4
77.5°	493.6	769.0	993.8	1033.8	1036.5
80°	355.2	618.6	832.8	895.4	903.4
82.5°	234.1	480.3	698.5	778.3	790.3
85°	135.7	357.9	590.7	671.9	683.9
87.5°	58.5	258.1	475.0	548.2	562.8
90°	4.7	171.3	381.7	483.4	507.2
92.5°	19.8	157.6	357.1	464.8	491.5
95°	55.9	197.7	412.9	534.1	574.1
97.5°	258.3	350.6	510.8	633.4	676.0
100°	521.7	614.4	630.5	711.4	730.4
102.5°	801.8	850.3	741.4	731.0	732.9
105°	942.7	977.6	931.8	750.9	713.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	762.5	799.0	849.3	862.4	838.1
115°	654.6	681.1	740.9	769.7	769.4
117.5°	562.9	578.4	635.4	663.7	668.6
120°	468.0	488.8	545.1	567.1	566.8
122.5°	394.5	412.2	461.7	485.2	483.6
125°	325.1	345.9	392.3	415.4	416.5
127.5°	275.4	290.2	334.1	359.0	362.1
130°	241.0	249.8	288.4	311.9	316.9
132.5°	215.0	224.2	251.9	276.9	281.3
135°	195.4	201.8	224.3	246.1	253.3
137.5°	179.6	185.1	201.3	222.7	228.0
140°	166.9	172.1	183.3	201.2	207.4
142.5°	156.2	160.0	166.3	182.9	186.8
145°	148.2	150.7	154.8	166.3	171.2
147.5°	139.9	143.6	145.4	152.6	156.6
150°	133.3	136.5	138.0	140.2	145.2
152.5°	126.8	130.0	131.5	131.1	133.7
155°	121.3	124.4	125.0	124.6	125.9
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°	946.4	988.7	997.3	848.7	741.8
110°	873.8	915.5	945.4	911.0	826.4



(END OF REPORT)