

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: P828260

Luminaire Tested: **OHBL-12SE-MFL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828260
REPORT IS A COMBINATION OF REPORTS P826151 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-12SE-MFL-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

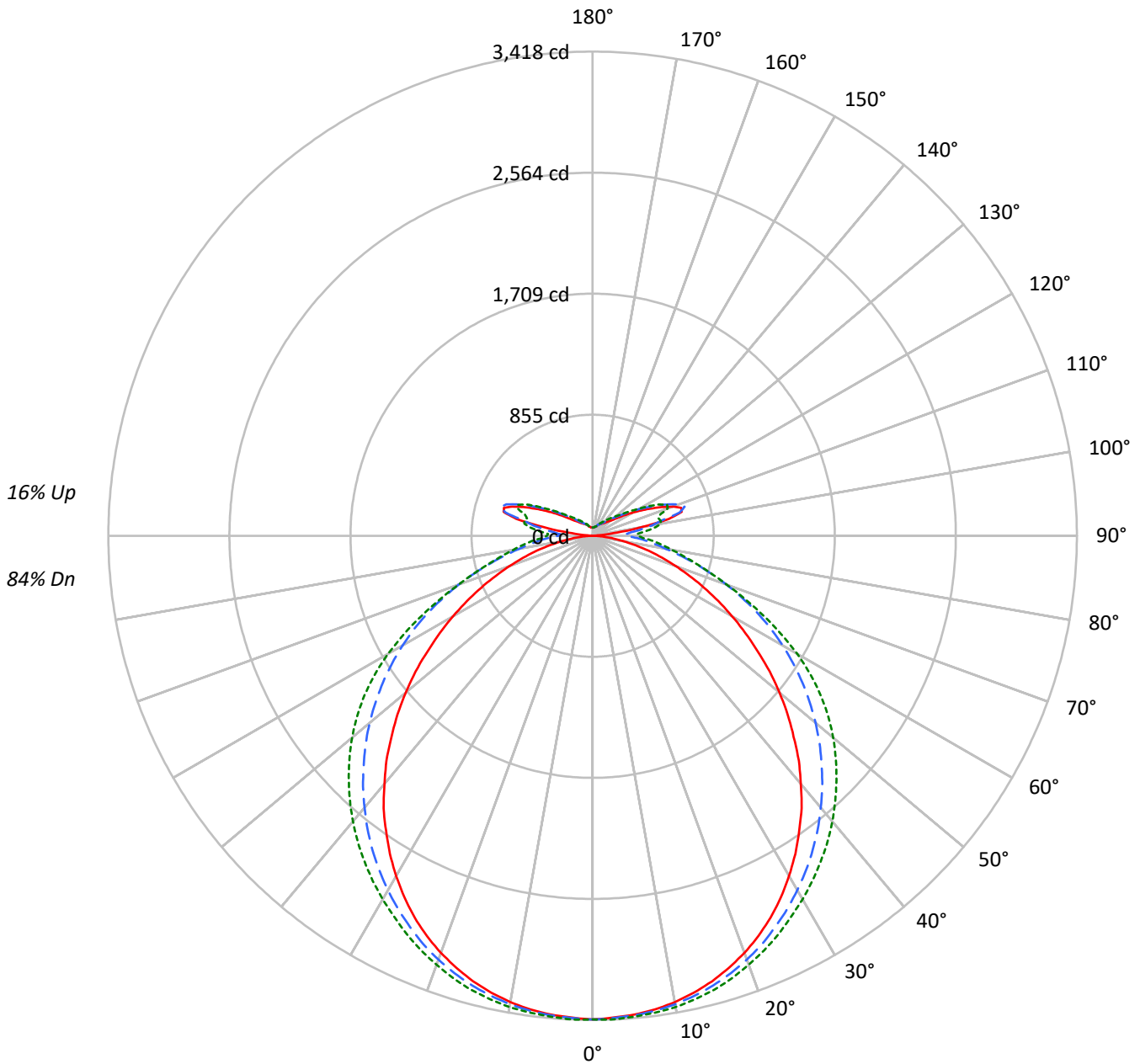
Lumens per Lamp: N/A
Luminaire Lumens: 11775.6 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 82.3
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

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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	102	102	102	94	94	94	87	87	87	84																			
1	105	100	95	91	100	96	92	88	89	86	83	82	80	77	76	74	72	69																			
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	67	63	60	57																			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	55	51	48																			
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41																			
5	73	60	51	45	70	58	50	44	54	47	42	50	45	40	47	42	38	36																			
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31																			
7	62	49	40	34	59	47	39	34	44	37	32	42	35	31	39	34	30	27																			
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	30	27	24																			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22																			
10	51	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11109	11109	11109
5°	10899	10938	11084
10°	10687	10777	11073
15°	10434	10599	11044
20°	10143	10396	10980
25°	9803	10158	10917
30°	9384	9904	10856
35°	8908	9638	10815
40°	8366	9337	10781
45°	7754	9013	10727
50°	7101	8680	10657
55°	6338	8285	10493
60°	5564	7827	10078
65°	4740	7260	9334
70°	3872	6558	8537
75°	3002	5748	8119
80°	2009	5050	8504
85°	1001	4783	10660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.6	2.7
10°-20°	928.2	7.9
20°-30°	1403.8	11.9
30°-40°	1685.3	14.3
40°-50°	1740.6	14.8
50°-60°	1566.0	13.3
60°-70°	1179.6	10.0
70°-80°	712.3	6.0
80°-90°	352.3	3.0
90°-100°	295.5	2.5
100°-110°	600.7	5.1
110°-120°	493.3	4.2
120°-130°	241.1	2.0
130°-140°	121.2	1.0
140°-150°	69.0	0.6
150°-160°	38.8	0.3
160°-170°	18.7	0.2
170°-180°	5.7	0.0
0°-30°	2655.6	22.6
0°-40°	4340.8	36.9
0°-60°	7647.4	64.9
0°-90°	9891.7	84.0
90°-120°	1389.5	11.8
90°-150°	1820.8	15.5
90°-180°	1884.0	16.0
0°-180°	11775.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3415	3415	3415	3415	3415	
5°	3393	3402	3398	3411	3407	322
15°	3256	3272	3287	3314	3318	918
25°	2973	3006	3049	3096	3104	1368
35°	2542	2602	2708	2790	2807	1589
45°	2006	2108	2284	2408	2434	1549
55°	1422	1569	1807	1943	1966	1275
65°	867	1045	1279	1342	1327	862
75°	409	587	740	760	752	436
85°	85	225	371	422	430	98
90°	4	110	242	307	322	8
95°	37	131	271	347	376	108
105°	650	672	636	504	479	617
115°	453	470	507	521	524	457
125°	224	237	268	282	283	210
135°	134	139	153	168	172	106
145°	102	103	107	114	117	64
155°	83	86	86	86	87	38
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3414.7	3414.7	3414.7	3414.7	3414.7
2.5°	3404.7	3413.0	3408.0	3418.8	3418.0
5°	3392.9	3402.1	3398.0	3411.3	3407.1
7.5°	3372.8	3382.9	3382.1	3397.1	3395.4
10°	3343.6	3354.5	3357.8	3377.9	3377.9
12.5°	3303.5	3317.7	3326.1	3350.3	3351.1
15°	3255.9	3271.7	3286.8	3314.3	3317.7
17.5°	3198.2	3218.2	3239.1	3270.9	3275.1
20°	3133.0	3155.6	3184.0	3217.4	3222.4
22.5°	3057.8	3084.5	3121.3	3160.6	3166.4
25°	2973.4	3006.0	3048.6	3096.3	3103.7
27.5°	2877.3	2914.9	2972.5	3026.0	3032.7
30°	2772.8	2817.1	2889.0	2952.5	2963.3
32.5°	2662.5	2713.5	2802.0	2873.1	2888.1
35°	2542.2	2601.6	2708.5	2790.4	2807.1
37.5°	2423.5	2488.7	2609.9	2703.5	2723.5
40°	2284.8	2365.8	2504.6	2608.2	2632.4
42.5°	2154.4	2242.1	2399.3	2512.1	2535.5
45°	2006.5	2107.6	2283.9	2408.4	2434.4
47.5°	1867.7	1977.3	2172.8	2301.5	2328.3
50°	1721.5	1841.8	2054.1	2188.7	2216.3
52.5°	1575.3	1704.8	1931.3	2070.8	2096.8
55°	1421.5	1568.6	1806.8	1942.9	1966.4
57.5°	1278.6	1434.1	1678.9	1808.4	1822.6
60°	1137.4	1298.7	1548.6	1662.2	1667.2
62.5°	999.5	1169.1	1414.8	1505.1	1498.4
65°	867.4	1044.6	1278.6	1342.2	1327.1
67.5°	740.4	923.4	1139.1	1180.0	1159.9
70°	620.1	805.6	1003.7	1024.6	1006.2
72.5°	513.9	693.6	866.6	884.1	870.8
75°	408.6	586.6	740.4	759.6	752.2
77.5°	310.0	483.1	624.3	649.3	651.0
80°	223.1	388.6	523.1	562.4	567.4
82.5°	147.1	301.7	438.7	488.9	496.4
85°	85.2	224.8	371.1	422.0	429.5
87.5°	36.8	162.2	298.3	344.3	353.5
90°	3.5	109.5	241.8	306.6	321.8
92.5°	13.8	101.4	230.0	298.4	314.6
95°	37.2	130.6	270.9	347.4	375.9
97.5°	174.6	235.4	344.8	421.5	443.0
100°	354.6	410.4	427.2	477.2	489.1
102.5°	551.9	584.4	499.1	491.8	492.5
105°	650.1	672.4	636.2	503.8	479.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	530.1	549.5	579.9	587.7	569.4
115°	452.7	470.5	507.2	521.2	523.7
117.5°	387.5	399.2	434.5	451.1	454.5
120°	324.9	337.6	371.2	385.3	386.9
122.5°	272.7	284.7	316.7	329.9	330.6
125°	224.1	237.0	268.1	282.3	283.1
127.5°	190.1	199.7	229.2	243.4	244.1
130°	165.8	172.8	196.3	211.4	214.8
132.5°	149.3	153.6	172.2	186.4	191.5
135°	134.5	138.9	153.2	167.5	171.6
137.5°	123.2	127.5	137.6	151.1	155.3
140°	114.5	118.0	124.8	136.5	140.7
142.5°	107.6	110.2	114.4	124.4	127.8
145°	102.2	103.2	106.6	114.2	116.7
147.5°	96.2	97.9	99.6	104.8	107.2
150°	90.9	93.6	94.4	96.2	99.6
152.5°	87.5	89.2	90.1	90.2	91.8
155°	83.1	85.7	85.7	85.8	86.6
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	656.2	680.4	680.9	573.0	501.5
110°	601.4	629.3	648.3	619.6	563.7



(END OF REPORT)