

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: P828259

Luminaire Tested: **OHBL-12SE-MFL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828259
REPORT IS A COMBINATION OF REPORTS P826055 AND G3-2310-221-12
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-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

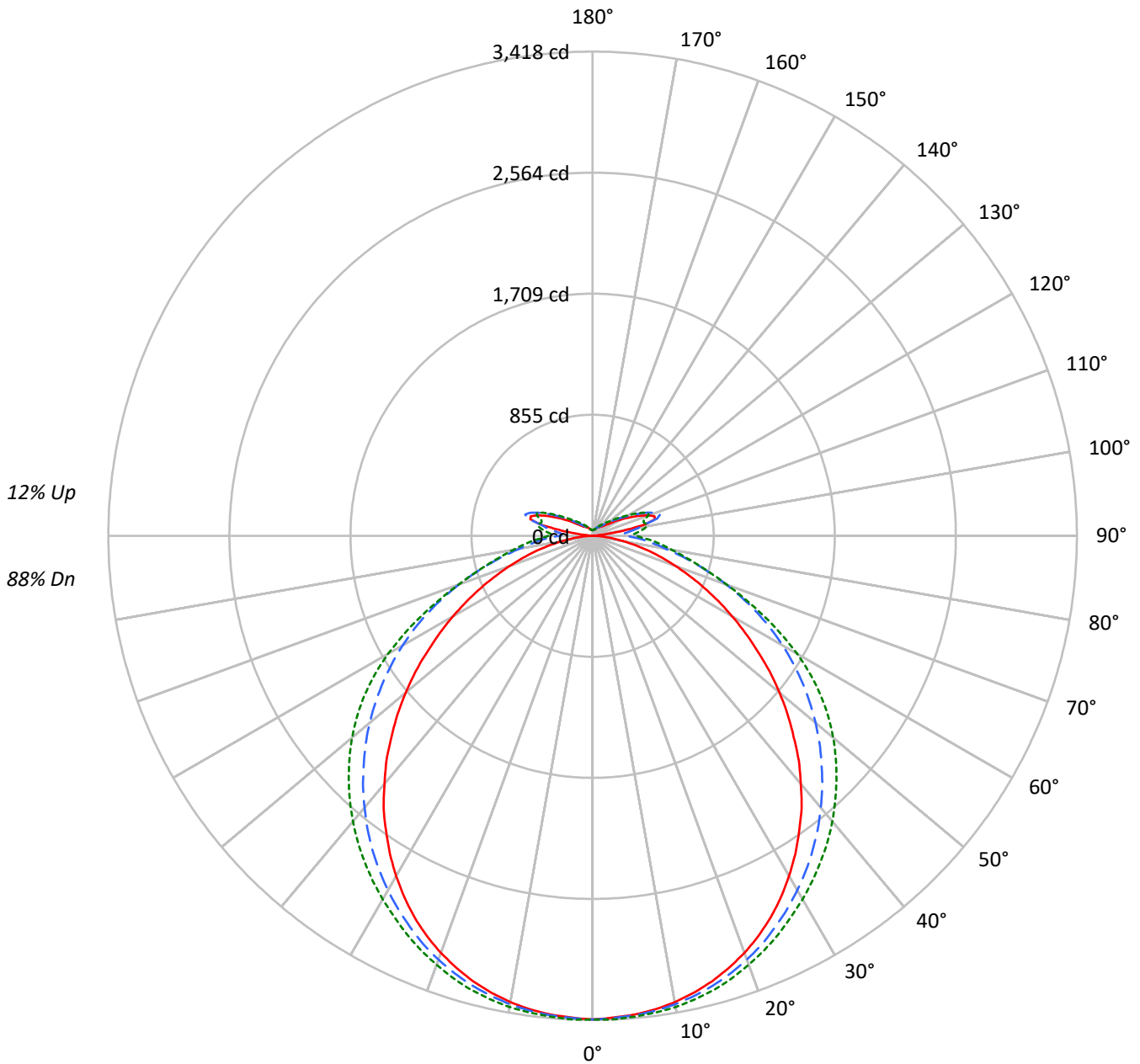
Lumens per Lamp: N/A
Luminaire Lumens: 11302.1 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 78.4
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					20					
RC	80					70					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	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	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72								
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60								
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50								
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43								
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	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	36	32	40	35	31	29								
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	25								
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	28	24	33	27	23	32	26	23	21								

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	2.9
10°-20°	928.2	8.2
20°-30°	1403.8	12.4
30°-40°	1685.3	14.9
40°-50°	1740.6	15.4
50°-60°	1566.0	13.9
60°-70°	1179.6	10.4
70°-80°	712.3	6.3
80°-90°	351.1	3.1
90°-100°	250.1	2.2
100°-110°	443.6	3.9
110°-120°	358.2	3.2
120°-130°	175.9	1.6
130°-140°	88.7	0.8
140°-150°	50.2	0.4
150°-160°	27.8	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	2655.6	23.5
0°-40°	4340.8	38.4
0°-60°	7647.4	67.7
0°-90°	9890.5	87.5
90°-120°	1051.9	9.3
90°-150°	1366.8	12.1
90°-180°	1412.0	12.5
0°-180°	11302.1	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°	3	103	233	294	309	7
95°	26	110	234	303	326	75
105°	455	478	471	389	372	431
115°	320	332	371	387	385	320
125°	160	168	197	210	214	149
135°	94	99	112	126	129	75
145°	74	74	76	84	87	46
155°	60	62	62	62	63	27
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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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°	2.6	103.4	233.1	294.4	308.7
92.5°	10.3	92.7	215.2	279.3	292.8
95°	25.9	109.7	233.5	303.1	326.3
97.5°	122.4	178.0	282.2	346.7	363.0
100°	245.0	301.7	334.2	378.9	389.9
102.5°	386.7	414.9	379.2	384.0	385.5
105°	455.3	478.5	471.0	389.0	372.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.1	388.6	426.9	434.7	423.3
115°	319.7	332.2	370.7	387.3	385.4
117.5°	270.1	282.7	318.8	334.6	335.3
120°	227.5	239.4	271.2	284.5	287.8
122.5°	192.8	201.3	231.4	244.7	248.1
125°	159.7	168.3	196.8	210.1	213.5
127.5°	133.6	140.6	168.3	182.5	185.0
130°	117.1	121.5	144.2	159.3	161.8
132.5°	104.9	109.3	126.1	140.3	144.6
135°	94.5	98.9	112.3	125.7	129.0
137.5°	87.6	91.0	100.2	112.9	117.0
140°	81.5	84.9	90.9	101.7	105.0
142.5°	77.1	78.9	82.2	92.2	95.6
145°	73.6	74.5	76.2	83.7	87.1
147.5°	69.2	70.9	72.7	76.1	79.4
150°	66.6	68.3	68.3	70.1	72.6
152.5°	63.1	64.9	64.9	64.9	66.6
155°	60.5	62.3	62.3	62.3	63.1
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	457.9	483.9	499.2	431.2	379.8
110°	419.7	446.7	472.7	460.5	420.3



(END OF REPORT)