

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: P828257

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828257
REPORT IS A COMBINATION OF REPORTS P826054 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-MCL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

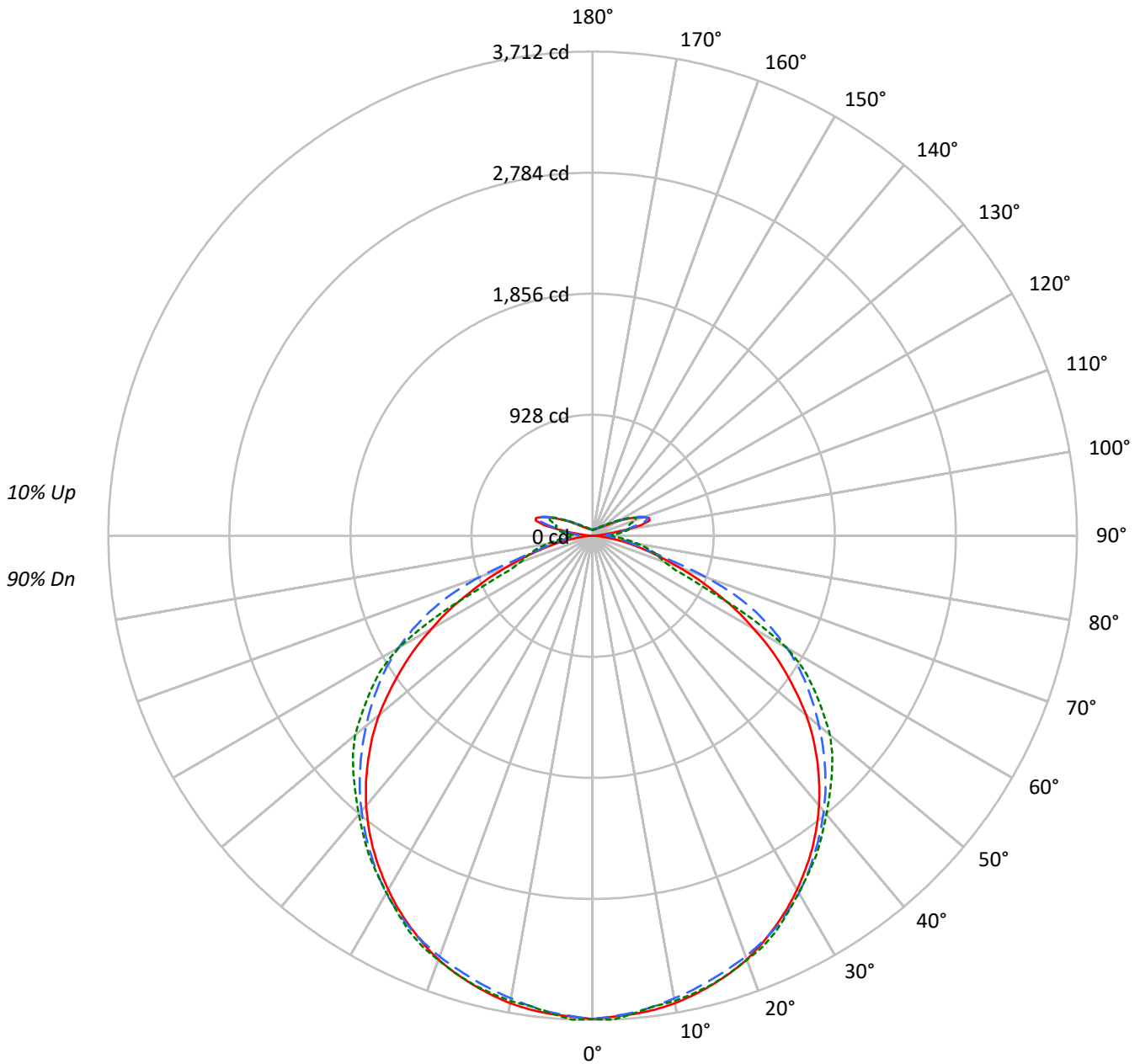
Lumens per Lamp: N/A
Luminaire Lumens: 11554.3 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P828257

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P828257

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL12

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76																			
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35																			
7	64	51	42	36	61	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	32	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12053	12053	12053
5°	11823	11807	11954
10°	11632	11559	11871
15°	11412	11358	11842
20°	11192	11206	11790
25°	10907	11052	11741
30°	10608	10848	11577
35°	10275	10566	11516
40°	9886	10273	11417
45°	9405	9942	11421
50°	8812	9571	11421
55°	7985	9195	11103
60°	6974	8683	10388
65°	5744	7836	6687
70°	4381	5971	4954
75°	3038	3427	5193
80°	1867	2704	5235
85°	836	2258	5505



TEST NUMBER: P828257

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	3.0
10°-20°	1001.7	8.7
20°-30°	1530.0	13.2
30°-40°	1856.4	16.1
40°-50°	1945.6	16.8
50°-60°	1763.0	15.3
60°-70°	1182.0	10.2
70°-80°	530.8	4.6
80°-90°	195.4	1.7
90°-100°	161.4	1.4
100°-110°	387.3	3.4
110°-120°	322.8	2.8
120°-130°	155.7	1.3
130°-140°	79.3	0.7
140°-150°	46.6	0.4
150°-160°	27.8	0.2
160°-170°	14.7	0.1
170°-180°	4.5	0.0
0°-30°	2881.0	24.9
0°-40°	4737.4	41.0
0°-60°	8446.0	73.1
0°-90°	10354.2	89.6
90°-120°	871.5	7.5
90°-150°	1153.1	10.0
90°-180°	1200.0	10.4
0°-180°	11554.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3705	3705	3705	3705	3705	
5°	3681	3694	3668	3679	3674	350
15°	3561	3547	3522	3553	3558	1006
25°	3308	3294	3317	3348	3338	1525
35°	2932	2939	2969	3001	2989	1833
45°	2434	2473	2519	2584	2592	1875
55°	1791	1877	2005	2085	2081	1599
65°	1051	1216	1380	1165	951	1047
75°	414	600	441	452	481	452
85°	71	137	175	212	222	87
90°	3	61	111	140	149	6
95°	22	79	137	176	194	72
105°	452	457	410	306	286	428
115°	317	319	329	331	327	317
125°	157	163	172	172	174	146
135°	94	97	101	104	105	74
145°	70	72	73	75	76	45
155°	58	59	60	61	60	27
165°	51	51	52	52	52	14
175°	47	47	46	46	46	5
180°	45	45	45	45	45	



TEST NUMBER: P828257

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3704.9	3704.9	3704.9	3704.9	3704.9
2.5°	3689.8	3705.4	3686.1	3707.0	3712.4
5°	3680.8	3693.6	3667.9	3679.1	3674.4
7.5°	3664.2	3668.4	3637.9	3647.0	3637.3
10°	3639.5	3637.3	3601.5	3619.1	3621.3
12.5°	3603.1	3596.6	3564.5	3591.3	3591.8
15°	3561.3	3547.3	3522.2	3553.2	3557.5
17.5°	3513.1	3494.9	3478.3	3518.5	3512.0
20°	3456.8	3435.4	3432.2	3476.1	3460.0
22.5°	3387.2	3370.6	3378.1	3419.9	3409.7
25°	3308.4	3294.0	3317.0	3347.5	3337.9
27.5°	3225.4	3216.9	3243.1	3266.7	3247.9
30°	3134.3	3129.6	3164.3	3183.6	3160.1
32.5°	3035.2	3036.9	3070.1	3096.4	3074.4
35°	2932.4	2939.3	2969.3	3001.0	2989.2
37.5°	2819.3	2834.9	2864.9	2900.8	2888.5
40°	2699.9	2722.4	2755.6	2799.0	2787.8
42.5°	2570.8	2599.2	2642.1	2690.2	2689.2
45°	2433.7	2473.3	2519.4	2583.6	2591.7
47.5°	2291.2	2335.6	2394.0	2479.7	2492.1
50°	2136.3	2192.0	2264.9	2367.8	2375.2
52.5°	1963.8	2039.9	2136.3	2234.9	2225.8
55°	1790.8	1877.0	2005.1	2085.4	2080.7
57.5°	1618.3	1715.3	1870.6	1928.0	1927.4
60°	1425.5	1548.1	1717.9	1761.3	1718.5
62.5°	1247.1	1378.9	1555.1	1523.5	1376.8
65°	1051.1	1215.5	1380.0	1164.6	950.8
67.5°	876.9	1048.4	1172.1	797.6	683.0
70°	701.7	890.8	913.9	591.9	583.9
72.5°	546.4	747.8	630.5	506.8	532.4
75°	413.6	600.0	441.4	451.6	481.1
77.5°	301.6	460.7	343.3	395.9	419.9
80°	207.3	326.2	280.1	332.6	349.3
82.5°	130.2	215.4	224.5	267.9	285.0
85°	71.2	136.6	175.2	211.6	221.8
87.5°	29.5	82.5	133.9	163.4	172.0
90°	3.1	61.2	111.4	140.5	149.4
92.5°	8.3	54.8	106.9	138.6	146.7
95°	22.3	78.9	136.9	176.4	194.1
97.5°	118.4	150.3	196.3	233.1	244.0
100°	241.5	277.0	258.1	276.8	282.7
102.5°	383.9	391.5	311.2	292.6	289.9
105°	451.7	456.6	409.6	305.6	285.5



TEST NUMBER: P828257

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.2	373.5	381.6	372.6	358.8
115°	317.3	319.4	329.4	331.1	326.9
117.5°	266.8	271.4	282.0	282.7	282.0
120°	224.2	230.0	238.7	237.9	238.5
122.5°	189.5	193.8	202.3	202.4	203.8
125°	156.8	163.4	172.2	172.1	173.5
127.5°	132.1	137.3	147.7	148.4	148.9
130°	115.5	119.5	126.6	129.6	129.6
132.5°	103.9	107.1	112.2	115.2	116.1
135°	93.5	96.7	100.7	104.2	104.8
137.5°	87.1	88.9	91.5	94.9	96.4
140°	80.2	82.8	83.9	86.9	87.5
142.5°	74.3	76.7	77.8	80.3	81.7
145°	70.0	72.3	73.2	74.6	76.0
147.5°	66.3	68.0	69.7	69.7	71.1
150°	63.6	64.5	65.4	66.3	66.3
152.5°	60.2	61.0	61.9	62.8	62.8
155°	57.6	58.9	59.8	60.7	60.2
157.5°	54.9	57.2	57.2	58.1	58.1
160°	53.2	54.6	55.5	55.5	55.5
162.5°	52.0	52.9	52.9	53.7	53.7
165°	51.1	51.1	52.0	52.0	52.0
167.5°	49.4	49.9	50.3	50.3	50.3
170°	48.5	48.5	48.5	48.9	48.9
172.5°	47.6	47.6	47.6	47.1	47.1
175°	46.8	46.8	46.3	45.6	45.6
177.5°	46.4	46.8	46.3	45.6	45.1
180°	45.4	45.4	45.4	45.4	45.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	454.8	464.0	444.5	356.0	301.3
110°	417.1	428.5	422.8	391.9	348.6



(END OF REPORT)