

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: P828176

Luminaire Tested: **OHB-18SE-N-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828176
REPORT IS A COMBINATION OF REPORTS P826200 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: OHB-18SE-N-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

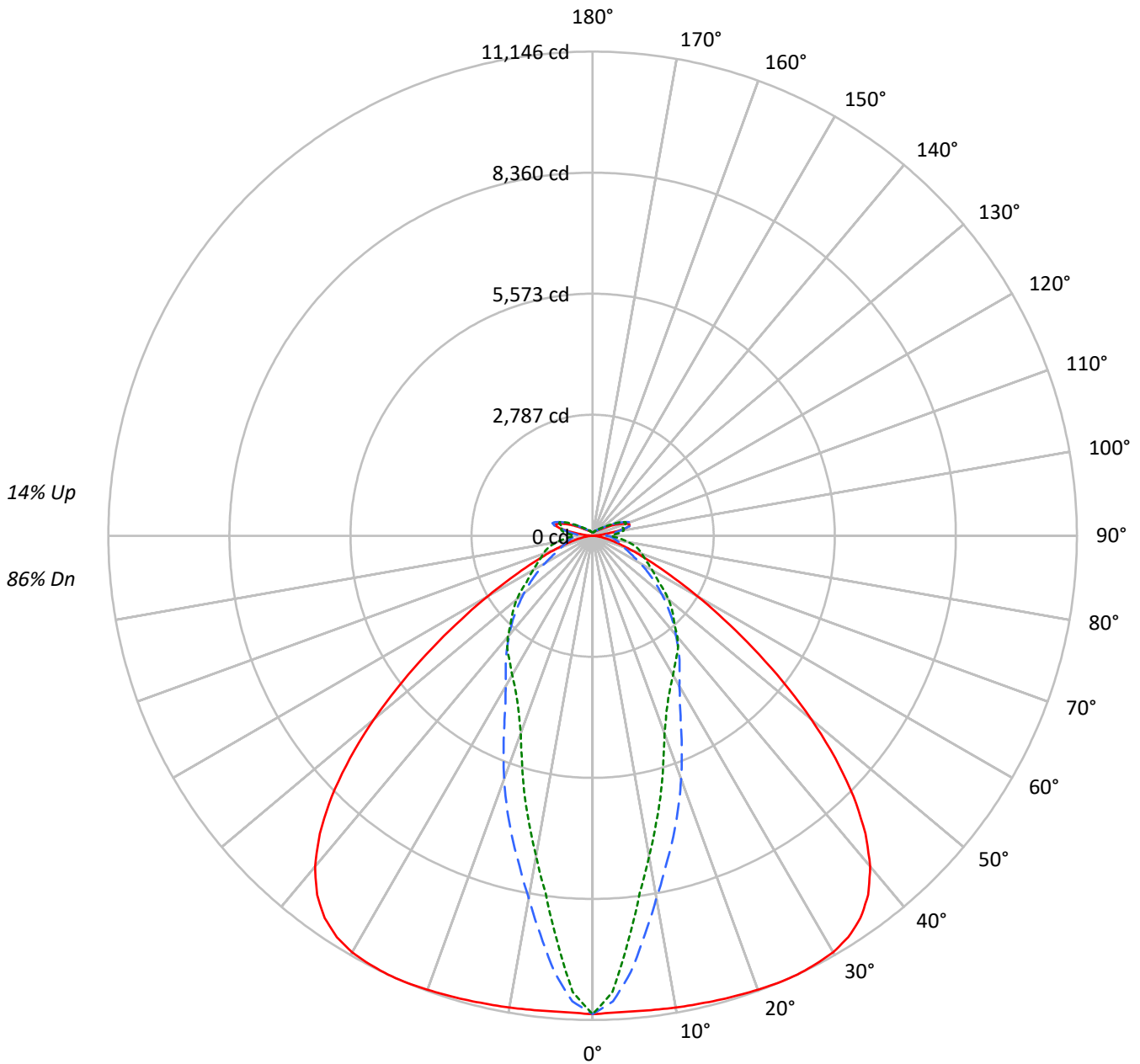
Lumens per Lamp: N/A
Luminaire Lumens: 18355.1 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 125
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: P828176

CATALOG NUMBER: OHB-18SE-N-UNV-L940-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P828176

CATALOG NUMBER: OHB-18SE-N-UNV-L940-CD-UPL24

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	111	111	111	111	103	103	103	96	96	96	89	89	89	86					86			
1	106	102	98	94	102	98	95	91	91	89	86	85	83	81	79	78	76	73					73			
2	98	90	84	79	94	87	82	77	81	77	73	76	72	69	71	68	66	63					63			
3	90	80	73	67	86	78	71	66	73	67	63	68	64	60	64	60	57	55					55			
4	83	72	64	58	80	70	63	57	66	60	55	62	57	53	58	54	51	48					48			
5	77	65	57	51	74	63	56	50	60	53	49	56	51	47	53	49	45	43					43			
6	72	59	51	46	69	58	50	45	55	48	43	52	46	42	49	44	40	38					38			
7	67	54	46	41	64	53	46	40	50	44	39	48	42	38	45	40	37	35					35			
8	62	50	42	37	60	49	42	36	46	40	35	44	38	34	42	37	33	31					31			
9	59	46	39	34	57	45	38	33	43	37	32	41	35	31	39	34	31	29					29			
10	55	43	36	31	53	42	35	30	40	34	30	38	33	29	37	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36781	36781	36781
5°	36529	33410	31180
10°	36761	28070	25032
15°	37294	23945	20570
20°	38145	20192	16659
25°	39251	16667	14615
30°	40375	14316	13596
35°	40957	13006	12974
40°	39976	11707	12329
45°	36486	10538	11435
50°	30501	9269	10757
55°	22921	8075	9597
60°	15844	6881	9216
65°	10469	5878	9060
70°	6977	5457	9558
75°	4668	5541	10294
80°	3022	5990	10736
85°	1554	7168	11551



TEST NUMBER: P828176

CATALOG NUMBER: OHB-18SE-N-UNV-L940-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.9	5.0
10°-20°	2180.4	11.9
20°-30°	2733.1	14.9
30°-40°	2900.2	15.8
40°-50°	2622.2	14.3
50°-60°	1901.3	10.4
60°-70°	1193.1	6.5
70°-80°	789.6	4.3
80°-90°	460.2	2.5
90°-100°	422.0	2.3
100°-110°	851.9	4.6
110°-120°	694.2	3.8
120°-130°	333.5	1.8
130°-140°	165.0	0.9
140°-150°	95.0	0.5
150°-160°	53.6	0.3
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	5840.4	31.8
0°-40°	8740.6	47.6
0°-60°	13264.1	72.3
0°-90°	15707.0	85.6
90°-120°	1968.1	10.7
90°-150°	2561.5	14.0
90°-180°	2648.0	14.4
0°-180°	18355.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11011	11011	11011	11011	11011	
5°	10989	10707	10078	9611	9369	###
15°	11073	9025	7168	6375	6085	3140
25°	11146	6978	4800	4260	4125	5149
35°	10747	4639	3483	3374	3373	6681
45°	8496	2938	2524	2585	2629	6472
55°	4498	1821	1647	1787	1851	4064
65°	1609	1056	954	1222	1358	1674
75°	497	569	640	994	1054	554
85°	87	236	468	652	598	104
90°	4	128	312	436	446	9
95°	50	166	388	523	564	147
105°	880	909	908	753	717	836
115°	613	640	725	753	751	618
125°	306	326	375	390	387	287
135°	184	190	210	226	228	146
145°	139	143	148	157	157	88
155°	114	118	121	123	121	51
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



TEST NUMBER: P828176

CATALOG NUMBER: OHB-18SE-N-UNV-L940-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11010.7	11010.7	11010.7	11010.7	11010.7
2.5°	10987.7	10924.8	10728.9	10609.4	10508.8
5°	10988.7	10706.9	10078.1	9610.8	9368.6
7.5°	11004.5	10377.8	9245.0	8562.8	8296.6
10°	11028.6	9970.2	8467.4	7740.1	7491.7
12.5°	11046.4	9511.2	7783.1	7035.9	6763.4
15°	11072.6	9024.9	7168.0	6374.7	6085.4
17.5°	11096.7	8567.0	6560.1	5731.2	5409.5
20°	11120.8	8073.4	5952.3	5098.2	4833.2
22.5°	11143.8	7552.5	5359.2	4606.8	4425.5
25°	11145.9	6978.2	4799.6	4259.9	4124.7
27.5°	11118.7	6383.0	4345.8	3969.6	3885.8
30°	11071.6	5805.6	3993.7	3760.0	3700.3
32.5°	10954.2	5216.7	3721.2	3557.8	3523.2
35°	10746.7	4639.3	3483.3	3374.4	3373.4
37.5°	10419.8	4126.8	3225.6	3206.7	3229.8
40°	9936.6	3678.3	2981.4	3031.8	3031.8
42.5°	9292.1	3288.4	2760.3	2811.6	2798.0
45°	8495.7	2938.5	2524.5	2585.3	2629.3
47.5°	7572.4	2630.3	2283.5	2400.9	2461.7
50°	6568.6	2336.9	2063.4	2213.3	2282.5
52.5°	5516.4	2065.5	1848.6	2020.4	2076.0
55°	4497.8	1821.3	1647.3	1786.7	1850.7
57.5°	3575.6	1588.6	1450.3	1582.4	1714.5
60°	2782.3	1388.5	1264.9	1453.5	1585.5
62.5°	2125.3	1210.4	1090.9	1332.9	1465.0
65°	1608.6	1056.3	953.6	1221.9	1358.2
67.5°	1212.4	923.3	846.8	1141.2	1274.3
70°	910.7	794.3	760.9	1090.9	1210.4
72.5°	672.8	675.9	692.7	1046.9	1138.1
75°	496.7	569.1	640.3	994.5	1054.2
77.5°	355.3	471.6	593.1	931.6	952.6
80°	246.2	384.6	543.9	848.8	831.0
82.5°	154.1	308.1	499.8	757.6	708.4
85°	86.9	235.8	468.5	651.8	598.4
87.5°	38.8	176.1	409.8	508.3	474.7
90°	4.3	128.1	312.3	436.4	445.7
92.5°	16.9	120.9	313.1	438.7	460.5
95°	50.3	165.7	388.5	523.1	563.8
97.5°	239.1	313.8	496.4	631.3	672.6
100°	486.2	564.0	617.7	712.4	730.8
102.5°	748.9	787.6	727.0	734.2	735.6
105°	880.4	908.6	907.8	753.1	716.8



TEST NUMBER: P828176

CATALOG NUMBER: OHB-18SE-N-UNV-L940-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	713.0	748.6	830.1	844.6	822.1
115°	613.2	640.3	725.1	752.7	750.7
117.5°	527.3	543.8	621.7	647.1	649.0
120°	438.6	460.7	531.4	549.1	543.9
122.5°	369.9	388.7	446.4	462.5	456.2
125°	306.5	326.3	375.3	390.2	386.6
127.5°	260.2	273.6	316.8	332.4	330.5
130°	228.1	237.1	270.9	286.5	287.4
132.5°	202.7	210.8	235.8	253.9	253.0
135°	184.4	190.0	209.6	226.1	227.8
137.5°	169.6	175.4	188.9	205.2	205.2
140°	156.6	162.2	172.8	187.1	188.0
142.5°	146.3	150.8	158.5	170.7	170.7
145°	138.7	143.2	147.9	157.1	156.9
147.5°	130.9	136.4	139.2	146.2	145.1
150°	124.8	129.6	132.2	136.2	136.1
152.5°	118.7	123.5	126.2	129.1	128.1
155°	113.5	118.3	121.1	123.0	120.9
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	883.9	922.0	970.5	840.2	741.5
110°	817.1	854.3	922.0	893.9	816.1



(END OF REPORT)