

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 233P134

Luminaire Tested: **NY-2GC8-232A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 233P134
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: NY-2GC8-232A-UNV-EB81
Description: METALUX 2' X 4' SPECIFICATION GRADE NYC RATED RECESSED FLUORESCENT
TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS
Light Source: TWO - FO32/35K - 2800 LUMENS EA. - 32 WATTS EA.
Ballast/Driver: ULT B232IUNVHP-A

Summary

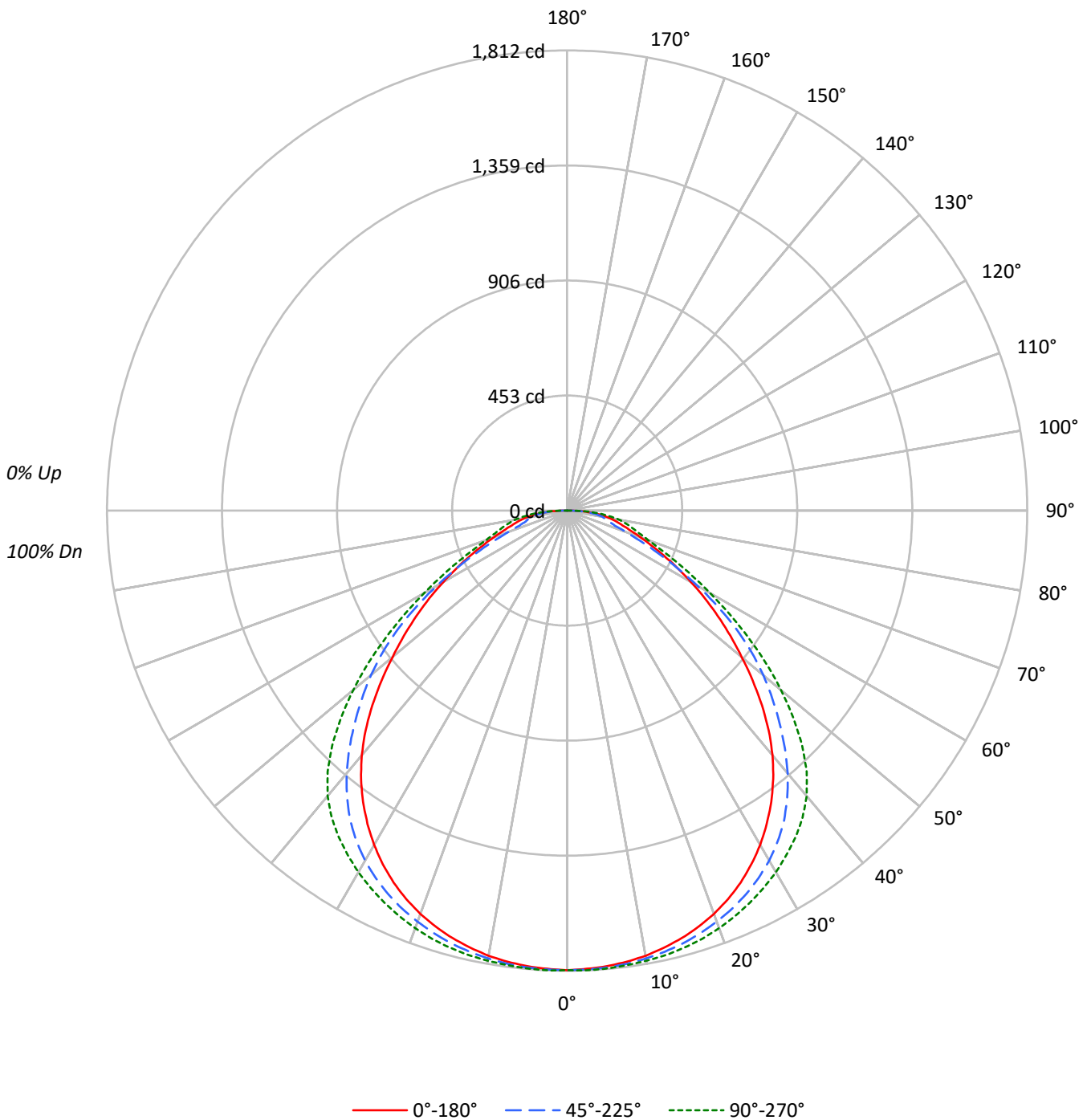
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4746.0 lumens
Efficiency: 84.8%
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.35 / 1.37
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 62
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: 233P134

CATALOG NUMBER: NY-2GC8-232A-UNV-EB81

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	0	
RCR																						
0	101	101	101	101	99	99	99	99	94	94	94	90	90	90	86	86	86	85				85
1	93	89	85	82	90	87	84	81	83	81	78	80	78	76	77	75	74	72				72
2	85	78	73	68	83	77	72	67	74	69	66	71	67	64	68	65	63	61				61
3	78	69	63	57	76	68	62	57	65	60	56	63	59	55	61	57	54	52				52
4	71	62	55	49	70	61	54	49	59	53	48	57	52	48	55	50	47	45				45
5	66	55	48	43	64	54	48	42	53	47	42	51	46	42	50	45	41	39				39
6	61	50	43	37	59	49	42	37	48	42	37	46	41	37	45	40	36	35				35
7	57	45	38	33	55	45	38	33	44	37	33	42	37	33	41	36	32	31				31
8	53	42	35	30	51	41	34	30	40	34	29	39	33	29	38	33	29	28				28
9	49	38	31	27	48	38	31	27	37	31	27	36	30	26	35	30	26	25				25
10	46	35	29	24	45	35	29	24	34	28	24	33	28	24	32	28	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2852	2852	2852
5°	2849	2857	2863
10°	2848	2866	2880
15°	2844	2878	2907
20°	2834	2889	2935
25°	2810	2898	2961
30°	2766	2895	2991
35°	2695	2864	3018
40°	2588	2779	3018
45°	2418	2636	2915
50°	2201	2471	2697
55°	1992	2234	2390
60°	1778	1869	2049
65°	1566	1462	1745
70°	1414	1124	1562
75°	1376	1041	1620
80°	1543	1280	1878
85°	1772	1573	2206



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	171.8	3.6	3.1	0°	1810	1810	1810	1810	1810	
10°-20°	497.8	10.5	8.9	5°	1801	1800	1806	1807	1810	171
20°-30°	766.1	16.1	13.7	15°	1743	1747	1764	1777	1782	492
30°-40°	927.5	19.5	16.6	25°	1616	1629	1667	1696	1703	744
40°-50°	913.5	19.2	16.3	35°	1401	1426	1489	1548	1569	874
50°-60°	713.0	15.0	12.7	45°	1085	1109	1183	1263	1308	834
60°-70°	423.8	8.9	7.6	55°	725	739	813	847	870	650
70°-80°	231.3	4.9	4.1	65°	420	394	392	451	468	421
80°-90°	101.2	2.1	1.8	75°	226	204	171	237	266	244
90°-100°	0.0	0.0	0.0	85°	98	87	87	112	122	102
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1435.8	30.3	25.6							
0°-40°	2363.2	49.8	42.2							
0°-60°	3989.7	84.1	71.2							
0°-90°	4746.0	100.0	84.8							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	4746.0	100.0	84.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810	1810	1810	1810	1810
2.5°	1806	1805	1809	1809	1812
5°	1801	1800	1806	1807	1810
7.5°	1792	1792	1800	1802	1805
10°	1780	1781	1791	1796	1800
12.5°	1763	1765	1779	1788	1793
15°	1743	1747	1764	1777	1782
17.5°	1719	1724	1745	1762	1768
20°	1690	1697	1723	1744	1750
22.5°	1656	1665	1697	1721	1728
25°	1616	1629	1667	1696	1703
27.5°	1571	1586	1632	1665	1675
30°	1520	1539	1591	1632	1644
32.5°	1463	1485	1544	1593	1608
35°	1401	1426	1489	1548	1569
37.5°	1333	1358	1424	1494	1523
40°	1258	1282	1351	1429	1467
42.5°	1175	1198	1269	1351	1396
45°	1085	1109	1183	1263	1308
47.5°	991	1018	1096	1169	1208
50°	898	926	1008	1068	1100
52.5°	810	834	915	960	987
55°	725	739	813	847	870
57.5°	643	644	704	735	757
60°	564	553	593	629	650
62.5°	489	469	487	535	553
65°	420	394	392	451	468
67.5°	359	329	310	380	395
70°	307	277	244	322	339
72.5°	262	237	197	276	298
75°	226	204	171	237	266
77.5°	197	174	156	203	238
80°	170	145	141	174	207
82.5°	136	115	118	145	168
85°	98	87	87	112	122
87.5°	57	54	51	67	71
90°	0	0	0	0	0

(END OF REPORT)