

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: 241p102

Luminaire Tested: **2AC2-232PBI-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 241p102
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2AC2-232PBI-UNV-EB81
Description: 2X4 2-LAMP 32W T8 TROFFER WITH FROSTED LENS AND WHITE
PARABOLIC BAFFLE
Light Source: TWO - PHILIPS - F32T8/TL835 - 3000 LUMENS - 32 WATTS
Ballast/Driver: -

Summary

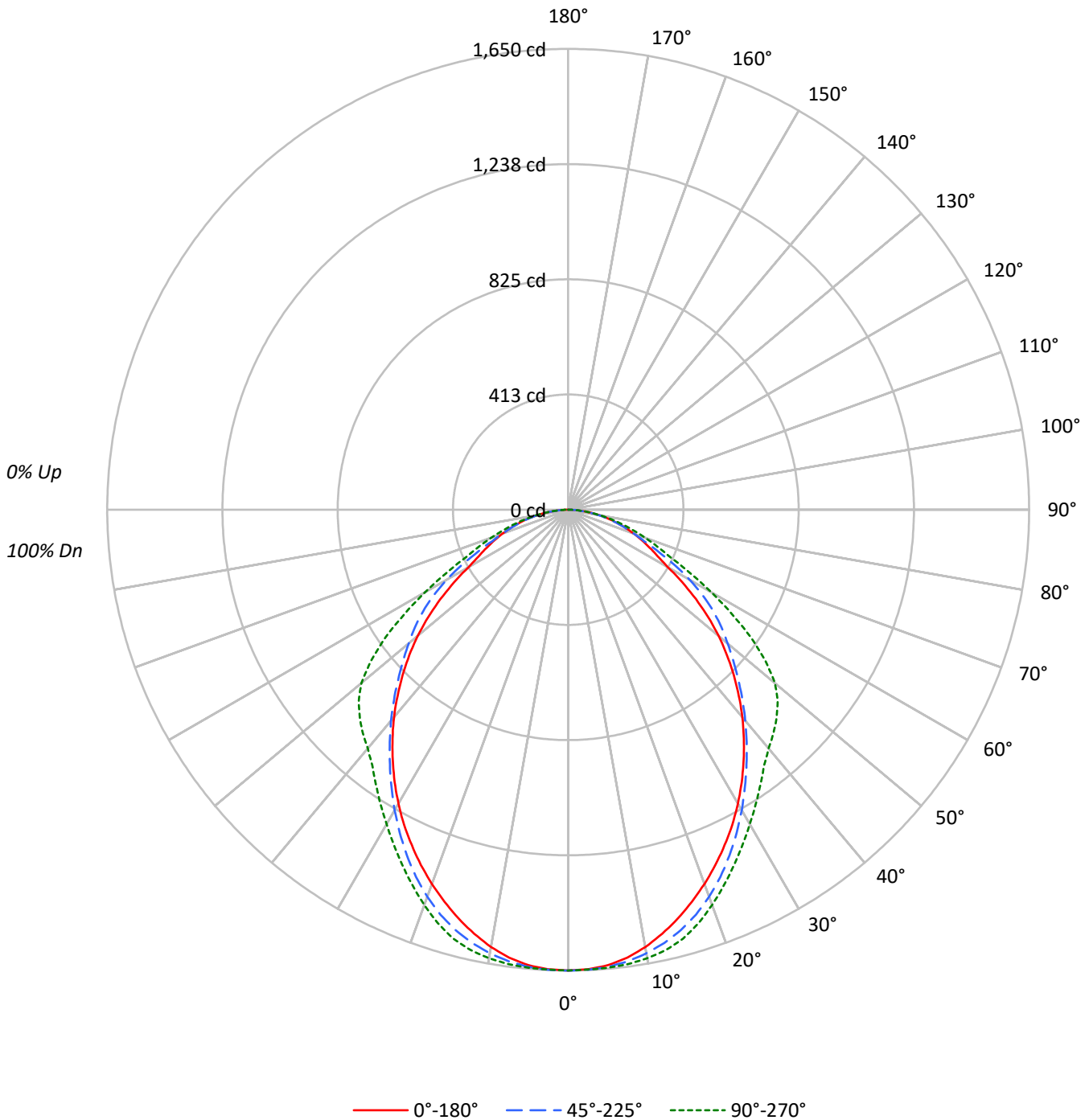
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 3817.3 lumens
Efficiency: 63.6%
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.18 / 1.23
Luminous Opening: Rectangular (W 1.98' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): 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: 241p102

CATALOG NUMBER: 2AC2-232PBI-UNV-EB81

Luminous Intensity Polar Plot





TEST NUMBER: 241p102

CATALOG NUMBER: 2AC2-232PBI-UNV-EB81

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	0
RCR																				
0	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	70	67	64	62	68	65	63	61	63	61	59		60	59	57		58	57	56	54
2	64	59	55	51	62	58	54	51	56	52	50		53	51	49		52	49	48	46
3	59	52	47	43	57	51	47	43	49	46	42		48	44	42		46	43	41	40
4	54	47	41	37	52	46	41	37	44	40	37		43	39	36		41	38	36	34
5	50	42	36	32	48	41	36	32	40	35	32		39	35	32		38	34	31	30
6	46	38	32	29	45	37	32	28	36	32	28		35	31	28		34	31	28	26
7	43	35	29	25	42	34	29	25	33	28	25		32	28	25		31	28	25	24
8	40	32	26	23	39	31	26	23	30	26	23		30	25	22		29	25	22	21
9	37	29	24	21	37	29	24	21	28	24	20		27	23	20		27	23	20	19
10	35	27	22	19	34	27	22	19	26	22	19		25	21	19		25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2243	2243	2243
5°	2234	2242	2247
10°	2195	2227	2252
15°	2134	2193	2238
20°	2063	2134	2179
25°	1988	2049	2106
30°	1908	1950	2041
35°	1818	1847	1992
40°	1722	1750	1981
45°	1611	1656	2029
50°	1487	1576	2043
55°	1323	1503	1894
60°	1120	1368	1610
65°	1036	1149	1300
70°	990	990	1161
75°	940	925	1045
80°	885	861	924
85°	780	749	796



TEST NUMBER: 241p102

CATALOG NUMBER: 2AC2-232PBI-UNV-EB81

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	155.8	4.1	2.6	0°	1650	1650	1650	1650	1650	
10°-20°	437.5	11.5	7.3	5°	1637	1638	1643	1649	1646	155
20°-30°	628.7	16.5	10.5	15°	1516	1528	1558	1586	1590	426
30°-40°	708.8	18.6	11.8	25°	1325	1345	1366	1390	1404	610
40°-50°	696.8	18.3	11.6	35°	1095	1115	1113	1156	1200	684
50°-60°	579.6	15.2	9.7	45°	838	846	861	961	1055	646
60°-70°	360.5	9.4	6.0	55°	558	569	634	730	799	498
70°-80°	193.6	5.1	3.2	65°	322	317	357	389	404	321
80°-90°	55.9	1.5	0.9	75°	179	174	176	189	199	189
90°-100°	0.0	0.0	0.0	85°	50	48	48	50	51	56
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°	1222.1	32.0	20.4							
0°-40°	1930.9	50.6	32.2							
0°-60°	3207.3	84.0	53.5							
0°-90°	3817.3	100.0	63.6							
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°	3817.3	100.0	63.6							



TEST NUMBER: 241p102

CATALOG NUMBER: 2AC2-232PBI-UNV-EB81

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650	1650	1650	1650	1650
2.5°	1647	1647	1649	1652	1648
5°	1637	1638	1643	1649	1646
7.5°	1618	1622	1631	1641	1641
10°	1590	1597	1613	1629	1631
12.5°	1555	1565	1589	1612	1615
15°	1516	1528	1558	1586	1590
17.5°	1472	1486	1520	1549	1552
20°	1426	1442	1475	1501	1506
22.5°	1377	1395	1423	1447	1456
25°	1325	1345	1366	1390	1404
27.5°	1272	1293	1305	1332	1352
30°	1215	1237	1242	1273	1300
32.5°	1156	1177	1177	1214	1250
35°	1095	1115	1113	1156	1200
37.5°	1033	1050	1049	1100	1152
40°	970	983	986	1047	1116
42.5°	904	914	923	1001	1087
45°	838	846	861	961	1055
47.5°	771	776	801	918	1017
50°	703	708	745	869	966
52.5°	631	639	691	808	890
55°	558	569	634	730	799
57.5°	484	498	572	643	694
60°	412	427	503	552	592
62.5°	361	362	429	466	494
65°	322	317	357	389	404
67.5°	285	280	295	323	346
70°	249	244	249	276	292
72.5°	213	208	212	230	244
75°	179	174	176	189	199
77.5°	145	141	142	151	158
80°	113	108	110	115	118
82.5°	80	77	78	80	83
85°	50	48	48	50	51
87.5°	21	20	21	22	22
90°	0	0	0	0	0

(END OF REPORT)