

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: 241p103

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 241p103
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 SEMI-SPECULAR
PARABOLIC BAFFLE
Light Source: TWO - PHILIPS - F32T8/TL835 - 3000 LUMENS - 32 WATTS
Ballast/Driver: -

Summary

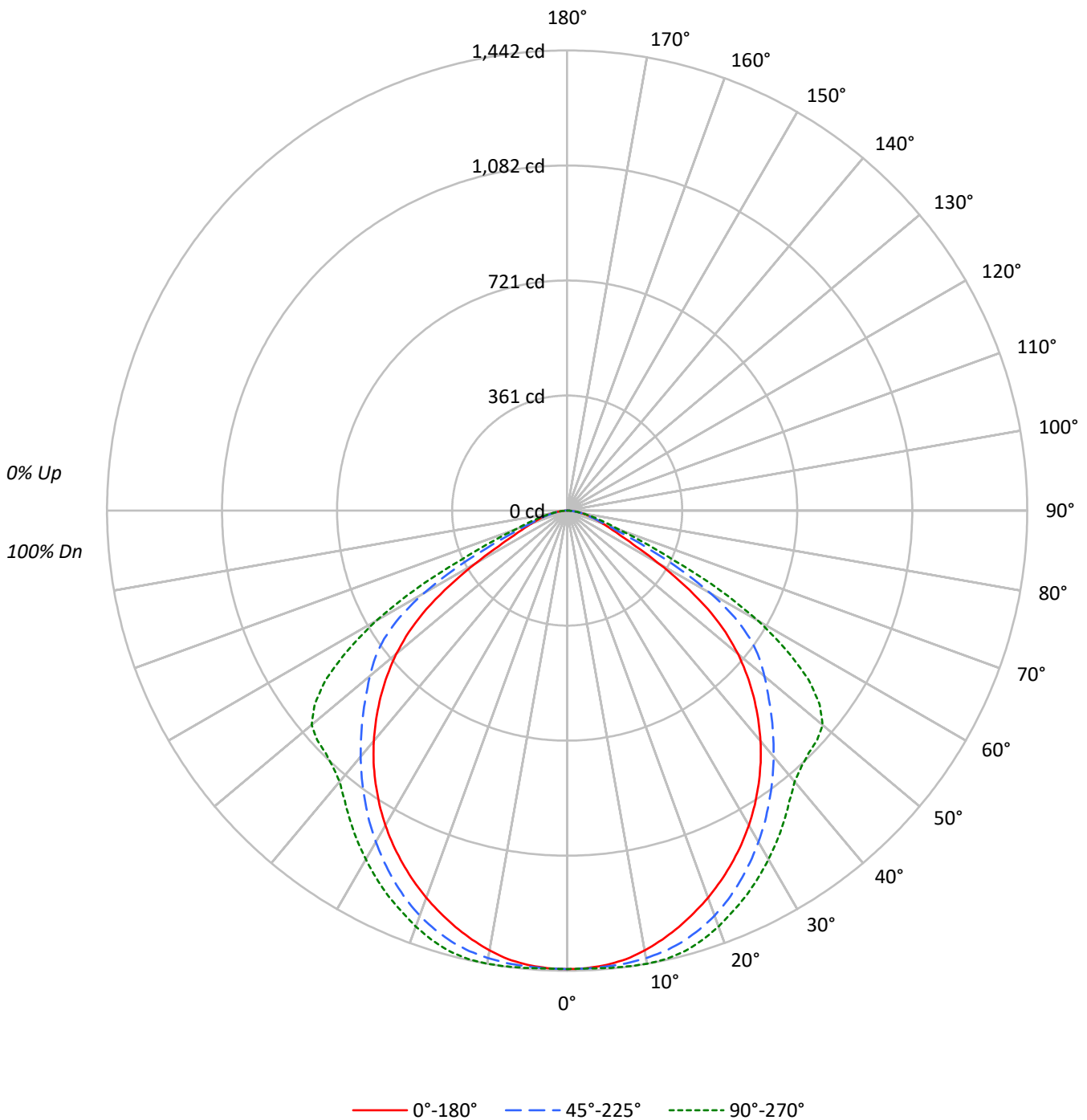
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 3556.7 lumens
Efficiency: 59.3%
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.3 / 1.34
Luminous Opening: Rectangular (W 1.98' x L: 4' x H: 0')
CIE Type: Direct

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

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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	0
RCR																		
0	71	71	71	71	69	69	69	69	66	66	66	63	63	63	60	60	60	59
1	65	63	61	59	64	62	60	58	59	58	56	57	56	54	55	54	53	52
2	60	56	52	49	59	55	51	49	53	50	47	51	48	46	49	47	45	44
3	55	50	45	42	54	49	45	41	47	43	41	45	42	40	44	41	39	38
4	51	44	39	36	49	43	39	35	42	38	35	41	37	34	39	36	34	33
5	47	40	35	31	46	39	34	31	38	34	30	37	33	30	36	32	30	29
6	43	36	31	27	42	35	30	27	34	30	27	33	29	27	32	29	26	25
7	40	33	28	24	39	32	27	24	31	27	24	30	26	24	30	26	23	22
8	37	30	25	22	36	29	25	21	29	24	21	28	24	21	27	24	21	20
9	35	27	23	19	34	27	22	19	26	22	19	26	22	19	25	22	19	18
10	33	25	21	18	32	25	21	18	24	20	17	24	20	17	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1954	1954	1954
5°	1950	1957	1964
10°	1933	1966	1991
15°	1902	1969	2011
20°	1868	1955	2007
25°	1830	1923	1995
30°	1788	1882	1981
35°	1736	1836	1969
40°	1674	1787	1968
45°	1590	1740	2061
50°	1479	1707	2210
55°	1278	1659	2188
60°	897	1417	1879
65°	592	894	1194
70°	473	517	684
75°	410	405	499
80°	360	337	368
85°	296	265	296



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	136.6	3.8	2.3	0°	1437	1437	1437	1437	1437	
10°-20°	393.2	11.1	6.6	5°	1429	1431	1434	1440	1439	136
20°-30°	589.8	16.6	9.8	15°	1351	1365	1399	1426	1429	381
30°-40°	696.6	19.6	11.6	25°	1220	1249	1282	1317	1330	562
40°-50°	715.8	20.1	11.9	35°	1046	1081	1106	1153	1186	654
50°-60°	623.0	17.5	10.4	45°	827	859	905	992	1072	636
60°-70°	291.4	8.2	4.9	55°	539	592	700	826	923	472
70°-80°	89.5	2.5	1.5	65°	184	203	278	349	371	196
80°-90°	20.9	0.6	0.3	75°	78	76	77	85	95	84
90°-100°	0.0	0.0	0.0	85°	19	17	17	18	19	22
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°	1119.5	31.5	18.7							
0°-40°	1816.1	51.1	30.3							
0°-60°	3154.9	88.7	52.6							
0°-90°	3556.7	100.0	59.3							
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°	3556.7	100.0	59.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437	1437	1437	1437	1437
2.5°	1435	1435	1436	1439	1436
5°	1429	1431	1434	1440	1439
7.5°	1418	1422	1431	1441	1441
10°	1400	1407	1424	1440	1442
12.5°	1377	1388	1414	1436	1439
15°	1351	1365	1399	1426	1429
17.5°	1322	1339	1377	1408	1411
20°	1291	1312	1351	1382	1387
22.5°	1257	1282	1319	1351	1359
25°	1220	1249	1282	1317	1330
27.5°	1181	1213	1242	1279	1297
30°	1139	1173	1199	1239	1262
32.5°	1094	1129	1154	1197	1225
35°	1046	1081	1106	1153	1186
37.5°	996	1030	1057	1107	1145
40°	943	976	1007	1060	1109
42.5°	886	918	955	1021	1087
45°	827	859	905	992	1072
47.5°	765	796	854	966	1063
50°	699	733	807	940	1045
52.5°	626	666	759	897	997
55°	539	592	700	826	923
57.5°	437	503	623	730	816
60°	330	396	521	612	691
62.5°	242	286	399	482	540
65°	184	203	278	349	371
67.5°	146	152	184	236	253
70°	119	120	130	164	172
72.5°	97	95	99	116	127
75°	78	76	77	85	95
77.5°	61	58	58	63	70
80°	46	42	43	44	47
82.5°	31	29	28	29	32
85°	19	17	17	18	19
87.5°	8	7	8	8	8
90°	0	0	0	0	0

(END OF REPORT)