

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: 104P177

Luminaire Tested: **2PGX-232S36I-NSBC-PAF**

REISSUED: 05-23-1997

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P177
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-232S36I-NSBC-PAF REISSUED: 05-23-1997
Description: 2 X 4 Recessed Convertible Body Troffer with a 4" deep
18 cell semi-specular low iridescent parabolic louver
and a no shadow ballast cover.
Light Source: Two - FO32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic - L.O.B.F. = 94.8

Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3947.1 lumens
Efficiency: 68.1%
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.37
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 62.9
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

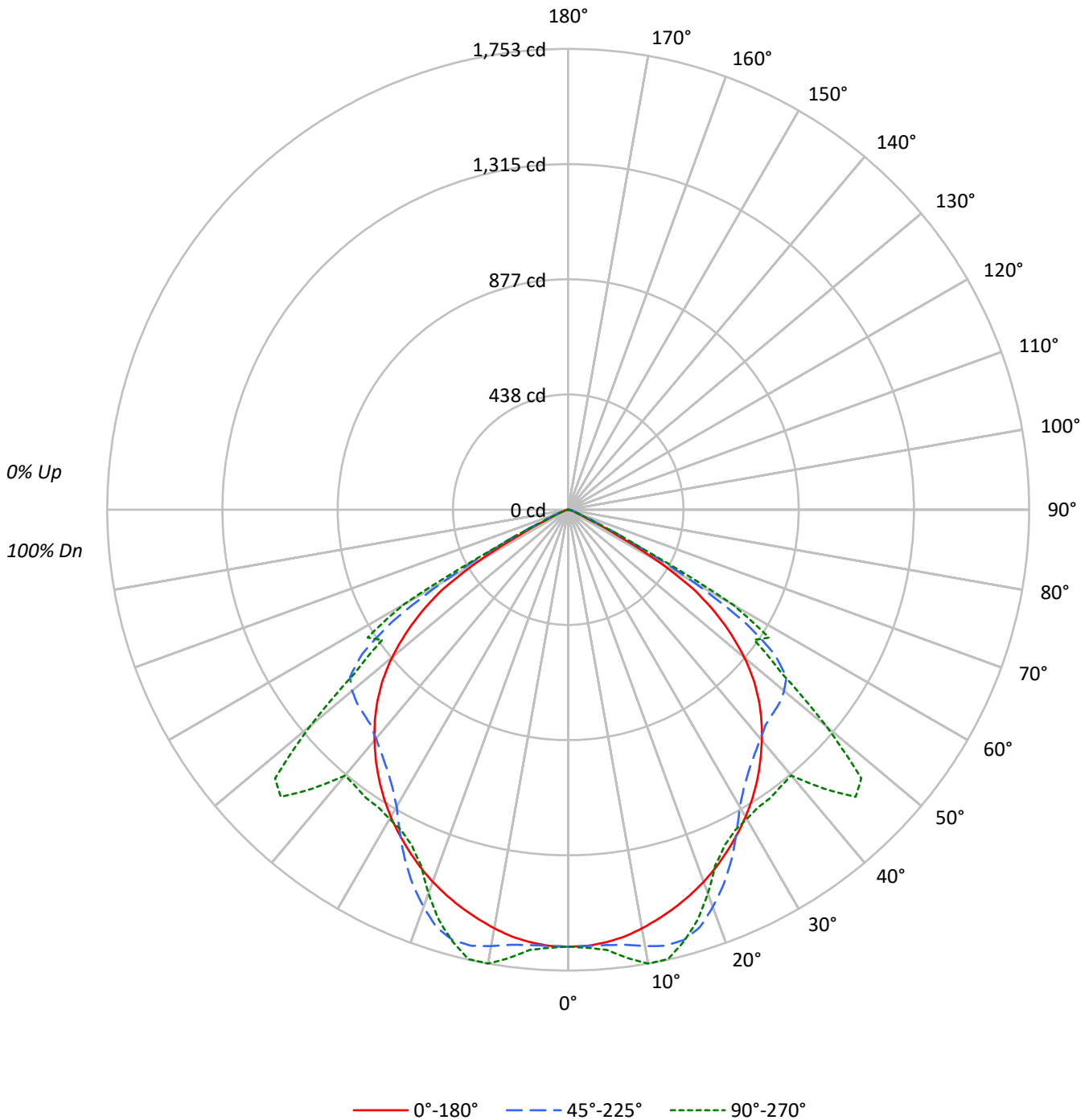


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Luminous Intensity Polar Plot





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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	50	30	10	0	
RCR																						
0	81	81	81	81	79	79	79	79	76	76	76	72	72	72	69	69	69	68				68
1	76	73	71	69	74	72	69	68	69	67	65	66	65	64	64	63	62	60				60
2	70	65	61	58	68	64	60	57	62	59	56	59	57	55	58	55	54	52				52
3	64	58	53	50	63	57	53	49	55	51	48	53	50	48	52	49	47	45				45
4	59	52	47	43	58	51	46	42	50	45	42	48	44	41	47	43	41	39				39
5	55	47	41	37	53	46	41	37	45	40	37	43	39	36	42	39	36	35				35
6	51	42	37	33	49	42	36	33	40	36	32	39	35	32	38	35	32	30				30
7	47	38	33	29	46	38	33	29	37	32	29	36	32	28	35	31	28	27				27
8	44	35	30	26	43	35	29	26	34	29	26	33	29	26	32	28	25	24				24
9	41	32	27	23	40	32	27	23	31	26	23	30	26	23	30	26	23	22				22
10	38	30	25	21	37	29	24	21	29	24	21	28	24	21	28	24	21	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2735	2735	2735
5°	2729	2745	2777
10°	2702	2817	2929
15°	2669	2887	2896
20°	2637	2816	2719
25°	2600	2667	2556
30°	2563	2478	2580
35°	2519	2414	2690
40°	2462	2442	2835
45°	2385	2557	3595
50°	2240	2744	3279
55°	1962	2745	2476
60°	1333	1810	2386
65°	315	522	370
70°	135	207	159
75°	89	140	102
80°	66	104	76
85°	38	76	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	159.5	4.0	2.7	0°	1662	1662	1662	1662	1662	
10°-20°	465.0	11.8	8.0	5°	1652	1652	1662	1670	1681	157
20°-30°	670.7	17.0	11.6	15°	1567	1600	1695	1702	1700	442
30°-40°	794.2	20.1	13.7	25°	1432	1521	1469	1398	1408	660
40°-50°	897.0	22.7	15.5	35°	1254	1293	1202	1272	1339	784
50°-60°	741.6	18.8	12.8	45°	1025	986	1099	1343	1545	787
60°-70°	193.2	4.9	3.3	55°	684	742	957	866	863	597
70°-80°	22.0	0.6	0.4	65°	81	132	134	145	95	134
80°-90°	4.0	0.1	0.1	75°	14	19	22	20	16	16
90°-100°	0.0	0.0	0.0	85°	2	3	4	3	2	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1295.2	32.8	22.3	165°	0	0	0	0	0	0
0°-40°	2089.4	52.9	36.0	175°	0	0	0	0	0	0
0°-60°	3728.0	94.4	64.3	180°	0	0	0	0	0	0
0°-90°	3947.1	100.0	68.1							
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°	3947.1	100.0	68.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662	1662	1662	1662	1662
2.5°	1661	1658	1661	1661	1668
5°	1652	1652	1662	1670	1681
7.5°	1638	1642	1669	1702	1720
10°	1617	1627	1686	1735	1753
12.5°	1593	1612	1699	1742	1751
15°	1567	1600	1695	1702	1700
17.5°	1538	1589	1665	1642	1636
20°	1506	1573	1608	1567	1553
22.5°	1471	1552	1544	1477	1463
25°	1432	1521	1469	1398	1408
27.5°	1392	1482	1386	1348	1375
30°	1349	1428	1304	1315	1358
32.5°	1303	1364	1246	1292	1343
35°	1254	1293	1202	1272	1339
37.5°	1201	1219	1167	1260	1327
40°	1146	1141	1137	1245	1320
42.5°	1088	1060	1111	1253	1439
45°	1025	986	1099	1343	1545
47.5°	955	919	1089	1383	1512
50°	875	862	1072	1280	1281
52.5°	784	805	1046	1057	1026
55°	684	742	957	866	863
57.5°	569	655	793	707	905
60°	405	507	550	603	725
62.5°	209	308	296	381	305
65°	81	132	134	145	95
67.5°	42	60	64	66	51
70°	28	38	43	42	33
72.5°	19	27	31	29	23
75°	14	19	22	20	16
77.5°	10	14	16	14	11
80°	7	9	11	10	8
82.5°	4	6	7	6	5
85°	2	3	4	3	2
87.5°	1	1	1	1	1
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)