

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: ITL49395

Luminaire Tested: **2PGX-232S26I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49395
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-232S26I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED
SEMI-SPECULAR METAL PARABOLIC 12-CELL LOUVER.
Light Source: TWO 32-WATT T-8 F32T8/TL735 LINEAR FLUORESCENTS.
Ballast/Driver: MOTOROLA M2-IN-T8-GP-D-120, L.O.B.F. = 87.9%

Summary

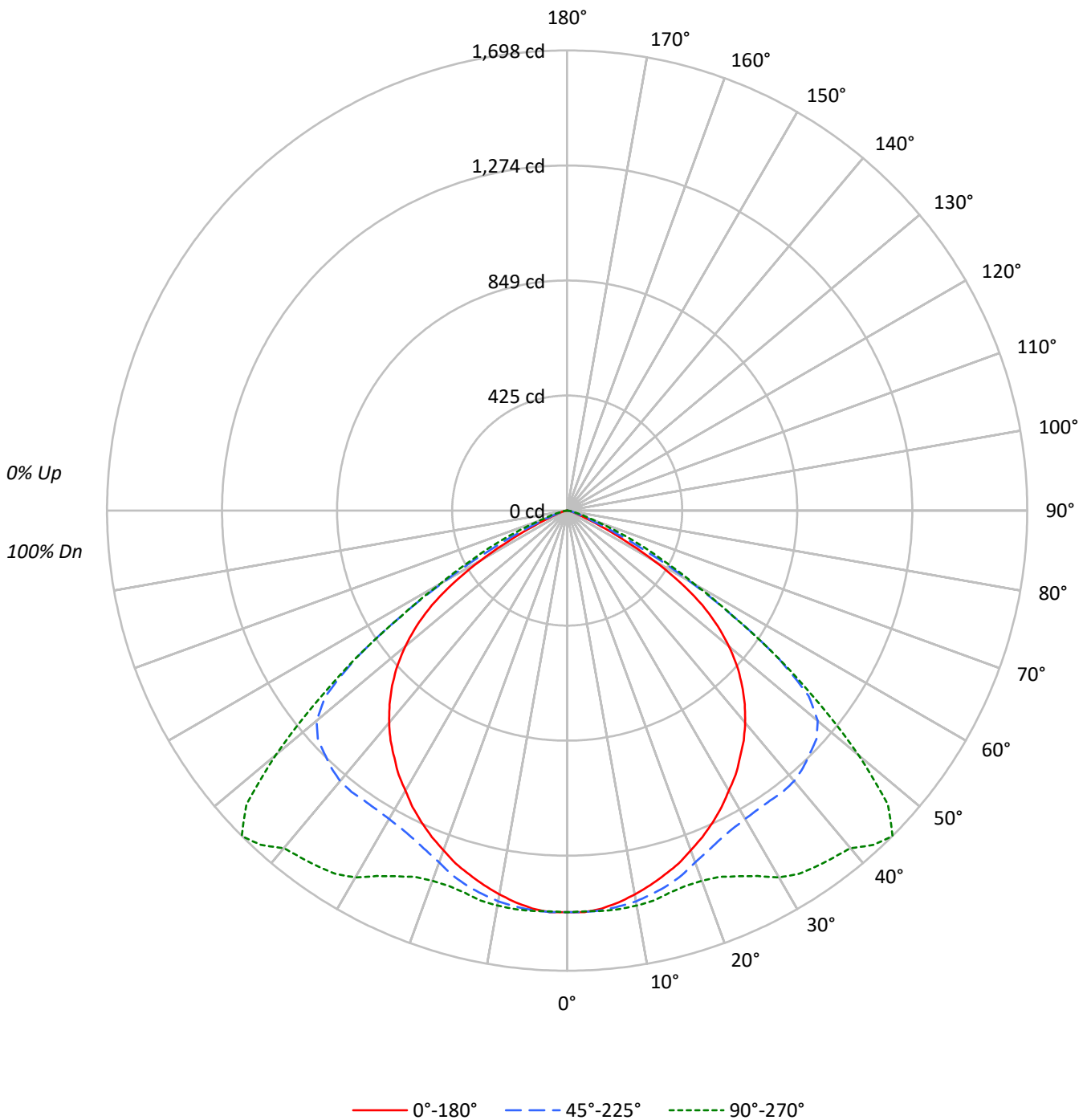
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4021.7 lumens
Efficiency: 71.8%
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.66 / 1.59
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 60.4
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: ITL49395
CATALOG NUMBER: 2PGX-232S26I

Luminous Intensity Polar Plot





TEST NUMBER: ITL49395
 CATALOG NUMBER: 2PGX-232S26I

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	85	85	85	85	84	84	84	84	80	80	80	76	76	76	73	73	73	72						72													
1	80	77	74	72	78	75	73	71	72	70	69	69	68	67	67	66	65	63						63													
2	73	68	64	61	72	67	63	60	64	61	58	62	60	57	60	58	56	54						54													
3	67	61	55	51	66	60	55	51	57	53	50	56	52	49	54	51	48	47						47													
4	62	54	48	44	60	53	48	44	51	47	43	50	46	42	48	45	42	40						40													
5	57	48	42	38	56	48	42	38	46	41	37	45	40	37	43	40	37	35						35													
6	53	44	37	33	51	43	37	33	42	36	33	40	36	32	39	35	32	31						31													
7	49	39	33	29	47	39	33	29	38	33	29	37	32	29	36	32	28	27						27													
8	45	36	30	26	44	35	30	26	34	29	26	34	29	26	33	29	25	24						24													
9	42	33	27	23	41	32	27	23	32	27	23	31	26	23	30	26	23	22						22													
10	39	30	25	21	39	30	24	21	29	24	21	28	24	21	28	24	21	19						19													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2439	2439	2439
5°	2435	2445	2450
10°	2403	2446	2473
15°	2370	2439	2487
20°	2336	2418	2546
25°	2306	2429	2703
30°	2267	2497	2970
35°	2234	2623	3220
40°	2195	2799	3493
45°	2125	2948	3951
50°	1994	3090	3594
55°	1747	2740	2743
60°	1221	1721	1790
65°	541	794	1133
70°	216	298	520
75°	127	165	280
80°	85	104	171
85°	38	57	76



TEST NUMBER: ITL49395
 CATALOG NUMBER: 2PGX-232S26I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	140.6	3.5	2.5	0°	1482	1482	1482	1482	1482	
10°-20°	403.8	10.0	7.2	5°	1474	1476	1480	1483	1483	140
20°-30°	630.8	15.7	11.3	15°	1391	1406	1432	1454	1460	392
30°-40°	833.8	20.7	14.9	25°	1270	1298	1338	1430	1489	585
40°-50°	971.4	24.2	17.3	35°	1112	1148	1306	1506	1603	696
50°-60°	756.6	18.8	13.5	45°	913	1004	1267	1532	1698	701
60°-70°	243.9	6.1	4.4	55°	609	801	955	912	956	531
70°-80°	35.9	0.9	0.6	65°	139	189	204	269	291	162
80°-90°	4.8	0.1	0.1	75°	20	23	26	37	44	24
90°-100°	0.0	0.0	0.0	85°	2	2	3	4	4	3
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°	1175.2	29.2	21.0							
0°-40°	2009.0	50.0	35.9							
0°-60°	3737.0	92.9	66.7							
0°-90°	4021.7	100.0	71.8							
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°	4021.7	100.0	71.8							



TEST NUMBER: ITL49395
 CATALOG NUMBER: 2PGX-232S26I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482	1482	1482	1482	1482
2.5°	1483	1482	1483	1483	1480
5°	1474	1476	1480	1483	1483
7.5°	1458	1463	1473	1481	1483
10°	1438	1447	1464	1477	1480
12.5°	1416	1427	1449	1469	1474
15°	1391	1406	1432	1454	1460
17.5°	1366	1385	1410	1437	1452
20°	1334	1357	1381	1425	1454
22.5°	1304	1330	1358	1423	1463
25°	1270	1298	1338	1430	1489
27.5°	1234	1265	1323	1447	1520
30°	1193	1229	1314	1469	1563
32.5°	1157	1190	1308	1494	1590
35°	1112	1148	1306	1506	1603
37.5°	1070	1112	1308	1507	1614
40°	1022	1078	1303	1503	1626
42.5°	970	1040	1288	1511	1673
45°	913	1004	1267	1532	1698
47.5°	851	967	1248	1499	1605
50°	779	922	1207	1350	1404
52.5°	701	872	1123	1122	1176
55°	609	801	955	912	956
57.5°	499	700	730	720	728
60°	371	549	523	540	544
62.5°	240	352	345	391	402
65°	139	189	204	269	291
67.5°	74	97	113	170	187
70°	45	55	62	99	108
72.5°	30	35	39	56	68
75°	20	23	26	37	44
77.5°	14	15	17	24	29
80°	9	10	11	16	18
82.5°	5	5	6	9	12
85°	2	2	3	4	4
87.5°	0	1	1	2	2
90°	0	0	0	0	0

(END OF REPORT)