

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: ITL49404

Luminaire Tested: **PGX2048-232S26I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49404
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX2048-232S26I
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

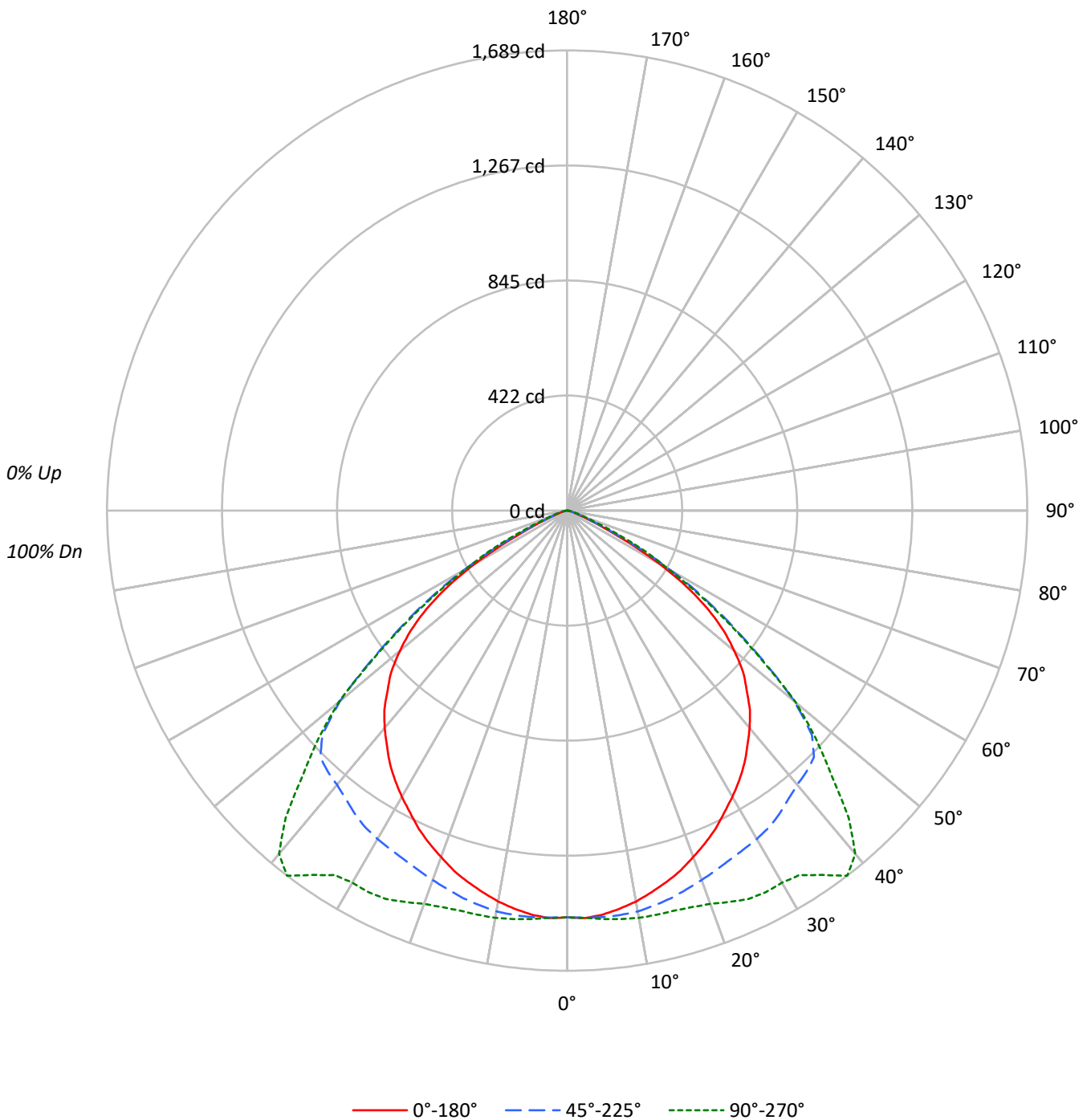
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3886.6 lumens
Efficiency: 69.4%
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.67 / 1.54
Luminous Opening: Rectangular (W 1.41' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 59.9
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	0
RCR																		
0	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	69
1	77	74	72	70	75	73	71	69	70	68	67	67	66	65	65	64	63	61
2	71	66	62	59	69	65	62	58	63	60	57	61	58	56	59	56	55	53
3	66	59	54	50	64	58	54	50	56	52	49	54	51	48	53	50	48	46
4	60	53	48	43	59	52	47	43	50	46	43	49	45	42	47	44	41	40
5	56	48	42	38	54	47	42	38	45	41	37	44	40	37	43	39	36	35
6	52	43	37	33	50	42	37	33	41	36	33	40	36	32	39	35	32	31
7	48	39	33	29	47	38	33	29	37	33	29	36	32	29	36	32	29	27
8	44	36	30	26	43	35	30	26	34	29	26	33	29	26	33	29	26	24
9	41	33	27	23	41	32	27	23	31	27	23	31	26	23	30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3039	3039	3039
5°	3042	3061	3075
10°	3011	3088	3137
15°	2973	3104	3203
20°	2931	3126	3327
25°	2895	3176	3533
30°	2851	3272	3706
35°	2818	3377	4055
40°	2769	3491	4371
45°	2683	3687	3944
50°	2536	3448	3467
55°	2236	2633	2587
60°	1592	1795	1734
65°	679	804	958
70°	268	304	423
75°	157	181	252
80°	105	129	164
85°	93	93	93



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	142.7	3.7	2.5	0°	1493	1493	1493	1493	1493	
10°-20°	415.9	10.7	7.4	5°	1489	1491	1498	1502	1505	141
20°-30°	657.9	16.9	11.7	15°	1411	1436	1473	1505	1520	398
30°-40°	858.5	22.1	15.3	25°	1289	1338	1414	1518	1573	593
40°-50°	923.3	23.8	16.5	35°	1134	1209	1359	1512	1632	708
50°-60°	653.9	16.8	11.7	45°	932	1056	1281	1347	1370	718
60°-70°	199.6	5.1	3.6	55°	630	802	742	728	729	551
70°-80°	29.9	0.8	0.5	65°	141	154	167	202	199	168
80°-90°	5.1	0.1	0.1	75°	20	22	23	30	32	24
90°-100°	0.0	0.0	0.0	85°	4	4	4	4	4	4
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°	1216.5	31.3	21.7							
0°-40°	2074.9	53.4	37.1							
0°-60°	3652.1	94.0	65.2							
0°-90°	3886.6	100.0	69.4							
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°	3886.6	100.0	69.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493	1493	1493	1493	1493
2.5°	1497	1496	1495	1495	1496
5°	1489	1491	1498	1502	1505
7.5°	1474	1483	1497	1508	1512
10°	1457	1472	1494	1511	1518
12.5°	1434	1454	1484	1509	1519
15°	1411	1436	1473	1505	1520
17.5°	1385	1417	1458	1503	1526
20°	1353	1393	1443	1502	1536
22.5°	1322	1365	1428	1508	1555
25°	1289	1338	1414	1518	1573
27.5°	1249	1306	1402	1523	1579
30°	1213	1275	1392	1516	1577
32.5°	1175	1240	1379	1506	1586
35°	1134	1209	1359	1512	1632
37.5°	1087	1173	1334	1544	1689
40°	1042	1140	1314	1567	1645
42.5°	993	1098	1300	1491	1529
45°	932	1056	1281	1347	1370
47.5°	876	1008	1218	1181	1237
50°	801	955	1089	1042	1095
52.5°	725	886	911	896	900
55°	630	802	742	728	729
57.5°	521	670	591	575	573
60°	391	500	441	431	426
62.5°	250	294	293	310	319
65°	141	154	167	202	199
67.5°	75	86	85	115	113
70°	45	49	51	68	71
72.5°	29	32	34	44	47
75°	20	22	23	30	32
77.5°	15	15	16	20	22
80°	9	10	11	13	14
82.5°	6	6	7	8	8
85°	4	4	4	4	4
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)