

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: ITL49396

Luminaire Tested: **2PGX-232S28I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL49396  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2PGX-232S28I  
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,  
FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED  
SEMI-SPECULAR METAL PARABOLIC 16-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**

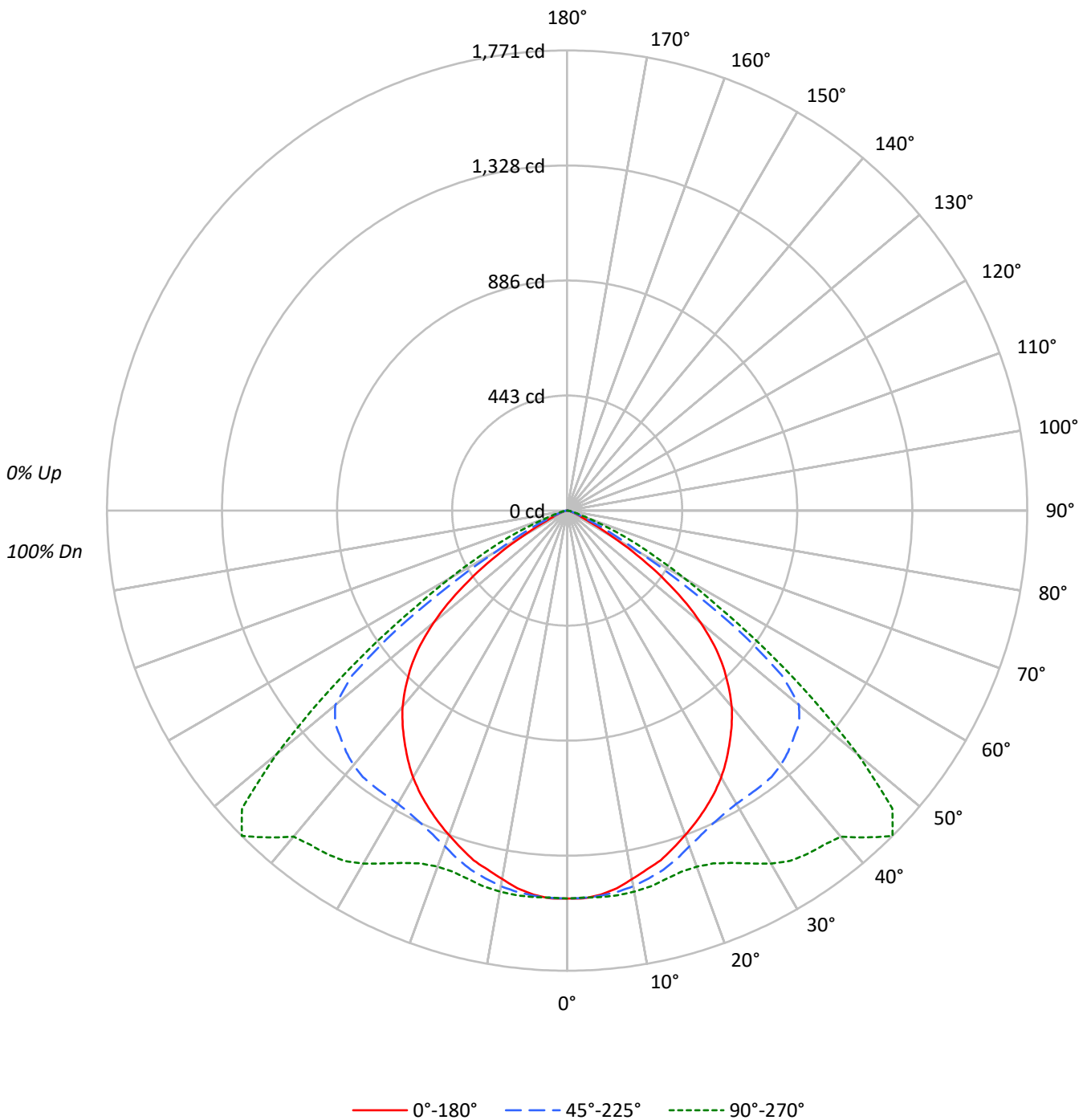
Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3815.1 lumens  
Efficiency: 68.1%  
Efficacy: 63.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.66 / 1.56  
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')  
CIE Type: Direct

Input Watts (W): 60.5  
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	81	81	81	81	79	79	79	79	76	76	76		72	72	72		70	70	70	68
1	76	73	71	69	74	72	70	68	69	67	66		66	65	64		64	63	62	60
2	70	65	61	58	68	64	60	57	62	59	56		60	57	55		58	56	54	52
3	64	58	53	50	63	57	53	49	55	51	48		53	50	47		52	49	47	45
4	59	52	47	43	58	51	46	42	50	45	42		48	44	41		47	43	41	39
5	55	47	41	37	53	46	41	37	45	40	36		43	39	36		42	39	36	34
6	51	42	36	32	49	42	36	32	40	36	32		39	35	32		38	34	32	30
7	47	38	33	29	46	38	32	29	37	32	28		36	31	28		35	31	28	27
8	44	35	29	26	43	34	29	25	33	29	25		33	28	25		32	28	25	24
9	41	32	27	23	40	31	26	23	31	26	23		30	26	23		29	25	23	21
10	38	29	24	21	37	29	24	21	28	24	21		28	23	21		27	23	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2457	2457	2457
5°	2451	2458	2466
10°	2406	2453	2488
15°	2373	2438	2501
20°	2327	2408	2553
25°	2291	2413	2716
30°	2253	2476	2981
35°	2190	2603	3240
40°	2118	2747	3518
45°	1978	2872	4121
50°	1718	2982	3737
55°	1268	2315	2668
60°	665	1047	1708
65°	257	467	1043
70°	154	197	409
75°	102	121	210
80°	85	95	142
85°	76	76	94



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	141.4	3.7	2.5	0°	1493	1493	1493	1493	1493	
10°-20°	403.9	10.6	7.2	5°	1484	1483	1488	1492	1493	140
20°-30°	628.2	16.5	11.2	15°	1393	1405	1431	1459	1468	392
30°-40°	825.9	21.6	14.7	25°	1262	1288	1329	1428	1496	582
40°-50°	956.1	25.1	17.1	35°	1090	1130	1296	1499	1613	682
50°-60°	662.1	17.4	11.8	45°	850	951	1234	1547	1771	649
60°-70°	166.7	4.4	3.0	55°	442	636	807	871	930	391
70°-80°	26.4	0.7	0.5	65°	66	89	120	214	268	84
80°-90°	4.5	0.1	0.1	75°	16	17	19	25	33	19
90°-100°	0.0	0.0	0.0	85°	4	4	4	5	5	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°	1173.5	30.8	21.0							
0°-40°	1999.3	52.4	35.7							
0°-60°	3617.5	94.8	64.6							
0°-90°	3815.1	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°	3815.1	100.0	68.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1493	1493	1493	1493	1493
2.5°	1494	1492	1492	1493	1491
5°	1484	1483	1488	1492	1493
7.5°	1466	1469	1480	1490	1493
10°	1440	1449	1468	1485	1489
12.5°	1415	1427	1450	1475	1482
15°	1393	1405	1431	1459	1468
17.5°	1361	1379	1405	1439	1458
20°	1329	1349	1375	1427	1458
22.5°	1297	1318	1350	1422	1470
25°	1262	1288	1329	1428	1496
27.5°	1226	1252	1313	1443	1531
30°	1186	1214	1303	1466	1569
32.5°	1140	1175	1299	1488	1598
35°	1090	1130	1296	1499	1613
37.5°	1040	1084	1292	1496	1622
40°	986	1043	1279	1492	1638
42.5°	920	1000	1259	1506	1706
45°	850	951	1234	1547	1771
47.5°	768	902	1211	1530	1697
50°	671	838	1165	1380	1460
52.5°	562	756	1042	1110	1191
55°	442	636	807	871	930
57.5°	320	479	536	662	692
60°	202	313	318	475	519
62.5°	114	176	200	329	375
65°	66	89	120	214	268
67.5°	45	53	67	124	158
70°	32	37	41	66	85
72.5°	22	25	26	40	51
75°	16	17	19	25	33
77.5°	13	14	14	19	23
80°	9	9	10	13	15
82.5°	5	5	6	8	9
85°	4	4	4	5	5
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)