

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: ITL49397

Luminaire Tested: **2PGX-232S29I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL49397  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2PGX-232S29I  
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,  
FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED  
SEMI-SPECULAR METAL PARABOLIC 18-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**

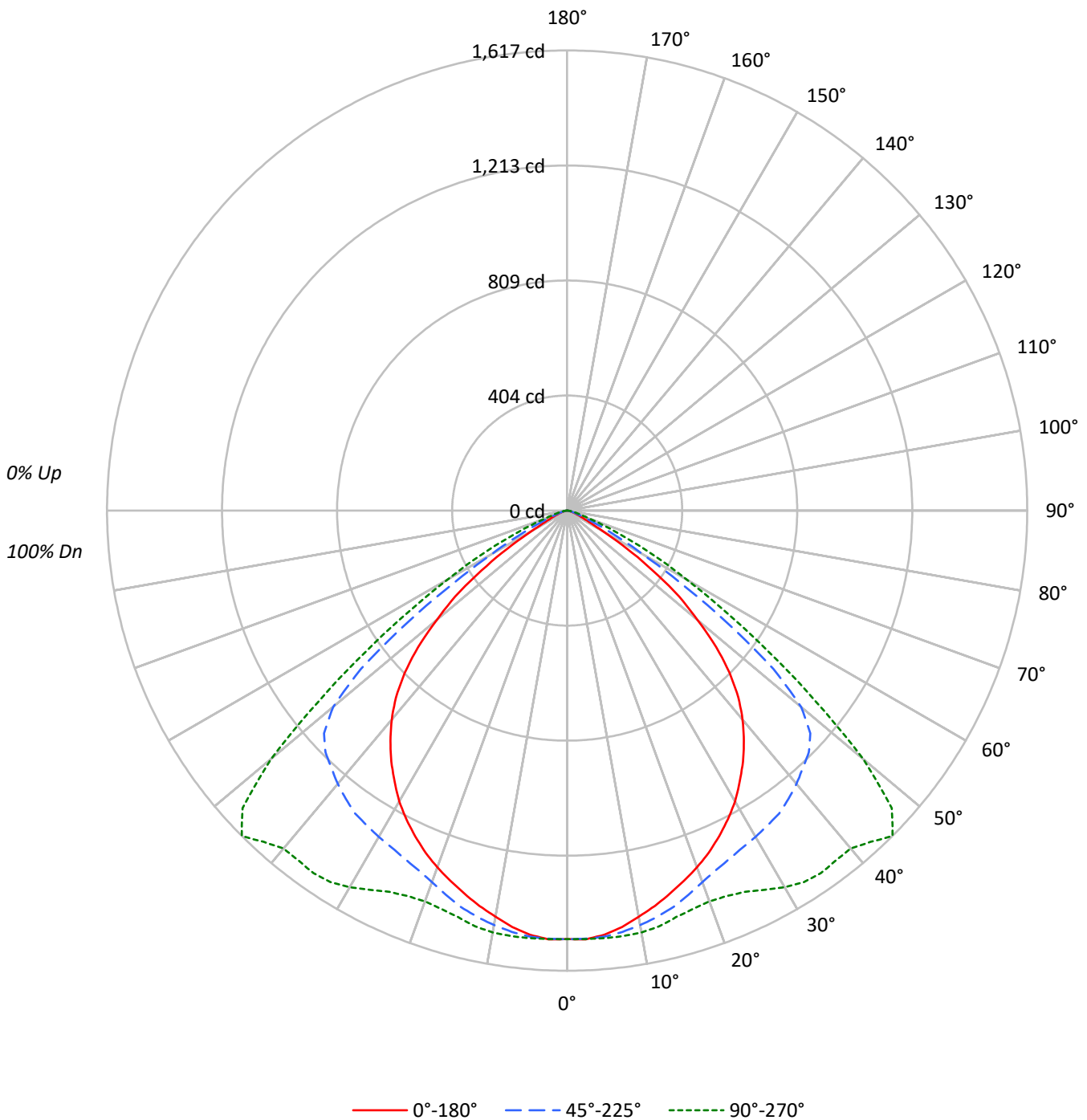
Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3663.2 lumens  
Efficiency: 65.4%  
Efficacy: 60.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.57 / 1.52  
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')  
CIE Type: Direct

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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	65
1	73	70	68	66	71	69	67	65	66	65	63		64	62	61		61	60	59	58
2	67	63	59	56	66	62	58	55	59	57	54		57	55	53		55	54	52	51
3	62	56	52	48	61	55	51	48	53	50	47		52	49	46		50	47	45	44
4	57	50	45	41	56	50	45	41	48	44	41		46	43	40		45	42	40	38
5	53	45	40	36	52	45	40	36	43	39	36		42	38	35		41	38	35	34
6	49	41	36	32	48	40	35	32	39	35	31		38	34	31		37	34	31	30
7	45	37	32	28	44	37	32	28	36	31	28		35	31	28		34	30	27	26
8	42	34	29	25	41	33	29	25	33	28	25		32	28	25		31	27	25	23
9	39	31	26	23	39	31	26	23	30	26	22		29	25	22		29	25	22	21
10	37	29	24	20	36	28	24	20	28	23	20		27	23	20		27	23	20	19

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

	0°	45°	90°
0°	2478	2478	2478
5°	2471	2483	2491
10°	2421	2471	2515
15°	2375	2456	2519
20°	2336	2432	2558
25°	2293	2451	2683
30°	2242	2516	2903
35°	2163	2609	3124
40°	2060	2694	3329
45°	1878	2795	3763
50°	1531	2747	3476
55°	1053	1957	2479
60°	461	1004	1590
65°	226	467	923
70°	144	216	399
75°	95	134	229
80°	66	95	152
85°	38	57	94



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	142.5	3.9	2.5	0°	1506	1506	1506	1506	1506	
10°-20°	406.0	11.1	7.3	5°	1496	1494	1503	1507	1508	141
20°-30°	629.4	17.2	11.2	15°	1394	1405	1442	1466	1479	393
30°-40°	812.5	22.2	14.5	25°	1263	1284	1350	1433	1478	582
40°-50°	904.4	24.7	16.2	35°	1077	1111	1299	1473	1555	672
50°-60°	586.1	16.0	10.5	45°	807	891	1201	1478	1617	613
60°-70°	149.7	4.1	2.7	55°	367	497	682	825	864	329
70°-80°	27.9	0.8	0.5	65°	58	70	120	203	237	66
80°-90°	4.7	0.1	0.1	75°	15	17	21	31	36	17
90°-100°	0.0	0.0	0.0	85°	2	2	3	5	5	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°	1177.9	32.2	21.0							
0°-40°	1990.5	54.3	35.5							
0°-60°	3480.9	95.0	62.2							
0°-90°	3663.2	100.0	65.4							
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°	3663.2	100.0	65.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1506	1506	1506	1506	1506
2.5°	1508	1503	1506	1506	1507
5°	1496	1494	1503	1507	1508
7.5°	1476	1478	1493	1505	1508
10°	1449	1453	1479	1497	1505
12.5°	1423	1431	1462	1487	1496
15°	1394	1405	1442	1466	1479
17.5°	1364	1378	1416	1451	1468
20°	1334	1347	1389	1436	1461
22.5°	1301	1319	1367	1431	1466
25°	1263	1284	1350	1433	1478
27.5°	1223	1247	1335	1443	1502
30°	1180	1207	1324	1458	1528
32.5°	1129	1158	1311	1470	1548
35°	1077	1111	1299	1473	1555
37.5°	1020	1062	1277	1465	1550
40°	959	1009	1254	1457	1550
42.5°	891	952	1226	1463	1579
45°	807	891	1201	1478	1617
47.5°	711	820	1159	1440	1547
50°	598	731	1073	1289	1358
52.5°	497	626	913	1067	1100
55°	367	497	682	825	864
57.5°	250	352	467	603	656
60°	140	214	305	427	483
62.5°	86	114	196	299	351
65°	58	70	120	203	237
67.5°	41	47	74	123	147
70°	30	34	45	72	83
72.5°	22	24	31	47	55
75°	15	17	21	31	36
77.5°	11	12	14	21	24
80°	7	7	10	14	16
82.5°	4	5	6	8	10
85°	2	2	3	5	5
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)