

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: ITL49390

Luminaire Tested: **PGX-132S18I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49390
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-132S18I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED SEMI-SPECULAR METAL PARABOLIC 8-CELL LOUVER.
Light Source: ONE 32-WATT T-8 F32T8/TL735 LINEAR FLUORESCENT.
Ballast/Driver: MOTOROLA M1-IN-T8-GP-D-120, L.O.B.F = 87.5%

Summary

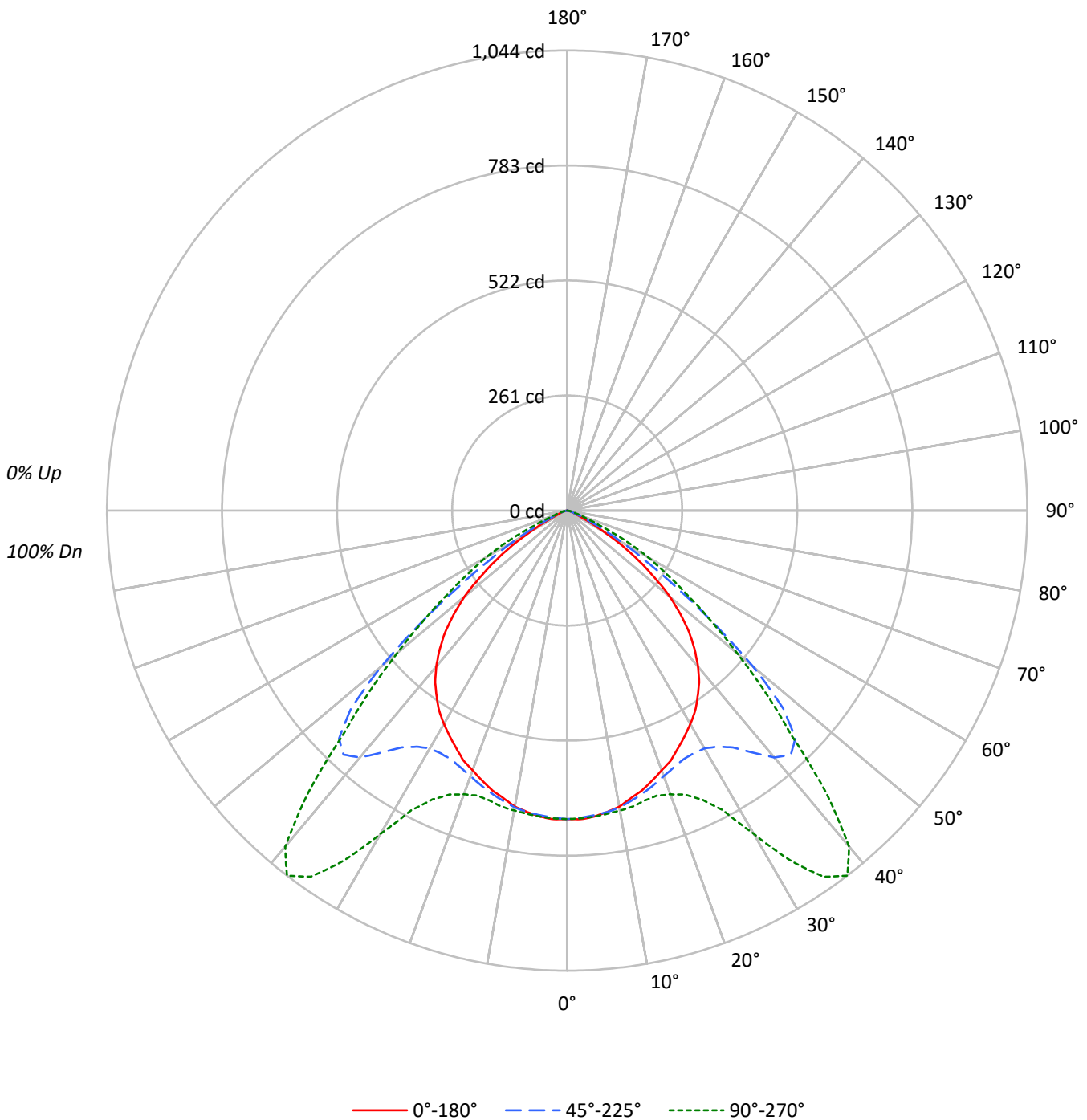
Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1825.0 lumens
Efficiency: 65.2%
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.83 / 1.61
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
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



TEST NUMBER: ITL49390
CATALOG NUMBER: PGX-132S18I

Luminous Intensity Polar Plot





TEST NUMBER: ITL49390
 CATALOG NUMBER: PGX-132S18I

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	72	72	72		69	69	69		67	67	67	65
1	73	70	68	66	71	69	67	65	66	64	63		63	62	61		61	60	59	58
2	67	63	59	56	66	62	58	55	59	57	54		57	55	53		55	53	52	51
3	62	56	52	48	60	55	51	48	53	50	47		51	48	46		50	47	45	44
4	57	50	45	41	56	49	45	41	48	44	41		46	43	40		45	42	40	38
5	53	45	40	36	51	44	39	36	43	39	35		42	38	35		41	37	35	33
6	49	41	35	32	48	40	35	31	39	35	31		38	34	31		37	33	31	29
7	45	37	32	28	44	36	31	28	35	31	28		35	30	27		34	30	27	26
8	42	34	28	25	41	33	28	25	32	28	25		32	28	25		31	27	24	23
9	39	31	26	22	38	30	26	22	30	25	22		29	25	22		28	25	22	21
10	37	28	23	20	36	28	23	20	27	23	20		27	23	20		26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2709	2709	2709
5°	2708	2696	2708
10°	2680	2688	2716
15°	2632	2661	2729
20°	2582	2640	2821
25°	2541	2660	3087
30°	2498	2784	3785
35°	2438	3099	4791
40°	2334	3693	5027
45°	2146	4007	3930
50°	1836	3318	3035
55°	1343	2004	2240
60°	743	1091	1649
65°	293	476	815
70°	181	204	339
75°	120	135	209
80°	45	45	134
85°	44	0	44



TEST NUMBER: ITL49390
 CATALOG NUMBER: PGX-132S18I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.1	3.6	2.4	0°	700	700	700	700	700	
10°-20°	188.5	10.3	6.7	5°	697	695	694	697	697	66
20°-30°	299.5	16.4	10.7	15°	657	658	664	674	681	185
30°-40°	443.2	24.3	15.8	25°	595	602	623	682	723	274
40°-50°	476.3	26.1	17.0	35°	516	534	656	888	1014	322
50°-60°	271.5	14.9	9.7	45°	392	482	732	753	718	299
60°-70°	67.9	3.7	2.4	55°	199	318	297	320	332	177
70°-80°	11.0	0.6	0.4	65°	32	40	52	76	89	40
80°-90°	1.1	0.1	0.0	75°	8	7	9	11	14	9
90°-100°	0.0	0.0	0.0	85°	1	0	0	0	1	1
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°	554.0	30.4	19.8							
0°-40°	997.3	54.6	35.6							
0°-60°	1745.1	95.6	62.3							
0°-90°	1825.0	100.0	65.2							
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°	1825.0	100.0	65.2							



TEST NUMBER: ITL49390
 CATALOG NUMBER: PGX-132S18I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700	700	700	700	700
2.5°	701	701	698	697	699
5°	697	695	694	697	697
7.5°	690	690	690	694	694
10°	682	682	684	689	691
12.5°	668	672	674	683	688
15°	657	658	664	674	681
17.5°	642	647	653	668	678
20°	627	632	641	666	685
22.5°	614	618	631	671	697
25°	595	602	623	682	723
27.5°	577	585	621	708	766
30°	559	569	623	752	847
32.5°	540	551	635	823	941
35°	516	534	656	888	1014
37.5°	492	519	692	925	1044
40°	462	505	731	931	995
42.5°	428	493	751	876	872
45°	392	482	732	753	718
47.5°	349	468	665	601	609
50°	305	442	551	493	504
52.5°	250	396	416	400	412
55°	199	318	297	320	332
57.5°	148	226	208	250	265
60°	96	140	141	188	213
62.5°	57	76	87	130	155
65°	32	40	52	76	89
67.5°	20	24	28	40	49
70°	16	17	18	26	30
72.5°	11	11	12	18	20
75°	8	7	9	11	14
77.5°	6	5	5	7	9
80°	2	2	2	5	6
82.5°	2	2	2	2	2
85°	1	0	0	0	1
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)