

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: ITL49394

Luminaire Tested: **PGX-132S29I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49394
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-132S29I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR
FINISH, FABRICATED WHITE PAINTED METAL BALLAST COVER,
FABRICATED SEMI-SPECULAR METAL PARABOLIC 18-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

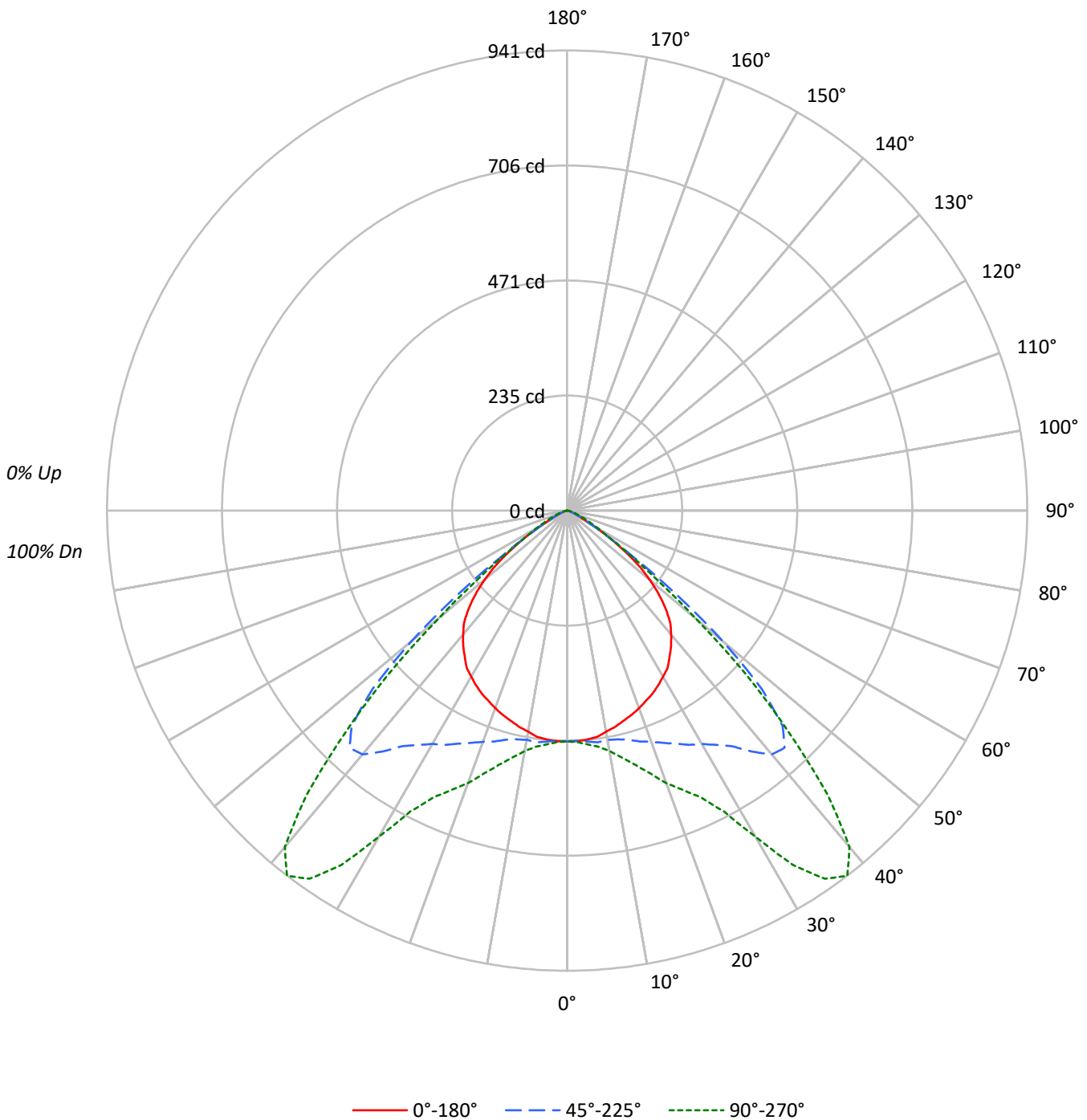
Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1420.4 lumens
Efficiency: 50.7%
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.98 / 1.66
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
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



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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	60	60	60	60	59	59	59	59	56	56	56	54	54	54	52	52	52	51
1	57	55	53	52	55	54	52	51	52	50	49	50	49	48	48	47	46	45
2	52	49	46	44	51	48	46	44	46	44	43	45	43	42	43	42	41	40
3	48	44	41	38	47	43	40	38	42	39	37	41	38	36	39	37	36	35
4	45	40	36	33	44	39	35	33	38	35	32	37	34	32	36	33	31	30
5	41	36	32	29	40	35	31	28	34	31	28	33	30	28	32	30	28	27
6	38	32	28	25	37	32	28	25	31	27	25	30	27	25	29	27	24	23
7	35	29	25	22	35	29	25	22	28	25	22	27	24	22	27	24	22	21
8	33	27	23	20	32	26	22	20	26	22	20	25	22	20	24	22	19	18
9	31	24	20	18	30	24	20	18	23	20	18	23	20	17	22	20	17	17
10	29	22	18	16	28	22	18	16	22	18	16	21	18	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1827	1827	1827
5°	1826	1842	1865
10°	1804	1871	1961
15°	1783	1943	2156
20°	1771	2072	2442
25°	1764	2246	2763
30°	1752	2462	3437
35°	1725	2778	4342
40°	1672	3289	4537
45°	1565	3410	3508
50°	1337	2499	2053
55°	951	1100	999
60°	457	426	565
65°	211	220	357
70°	124	136	215
75°	75	90	150
80°	45	45	67
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	45.4	3.2	1.6	0°	472	472	472	472	472	
10°-20°	139.4	9.8	5.0	5°	470	470	474	478	480	45
20°-30°	245.8	17.3	8.8	15°	445	459	485	522	538	126
30°-40°	383.6	27.0	13.7	25°	413	444	526	606	647	190
40°-50°	401.3	28.3	14.3	35°	365	433	588	801	919	228
50°-60°	164.9	11.6	5.9	45°	286	418	623	653	641	218
60°-70°	31.9	2.2	1.1	55°	141	224	163	152	148	125
70°-80°	7.7	0.5	0.3	65°	23	25	24	33	39	27
80°-90°	0.4	0.0	0.0	75°	5	6	6	8	10	6
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	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°	430.7	30.3	15.4							
0°-40°	814.3	57.3	29.1							
0°-60°	1380.5	97.2	49.3							
0°-90°	1420.4	100.0	50.7							
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°	1420.4	100.0	50.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	472	472	472	472	472
2.5°	472	472	471	472	474
5°	470	470	474	478	480
7.5°	467	470	478	485	487
10°	459	464	476	490	499
12.5°	453	463	479	505	517
15°	445	459	485	522	538
17.5°	438	454	495	540	563
20°	430	447	503	565	593
22.5°	421	445	514	587	618
25°	413	444	526	606	647
27.5°	403	441	540	634	693
30°	392	438	551	679	769
32.5°	382	438	568	749	859
35°	365	433	588	801	919
37.5°	349	430	621	829	941
40°	331	429	651	825	898
42.5°	312	429	658	768	789
45°	286	418	623	653	641
47.5°	255	401	539	501	497
50°	222	364	415	364	341
52.5°	184	303	279	241	228
55°	141	224	163	152	148
57.5°	98	142	92	96	100
60°	59	78	55	65	73
62.5°	36	40	36	46	53
65°	23	25	24	33	39
67.5°	16	17	17	24	28
70°	11	11	12	17	19
72.5°	8	8	9	13	16
75°	5	6	6	8	10
77.5°	2	3	3	5	7
80°	2	2	2	2	3
82.5°	1	0	0	1	1
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)