

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: ITL49393

Luminaire Tested: **PGX-132S28I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49393
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-132S28I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED SEMI-SPECULAR METAL PARABOLIC 16-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

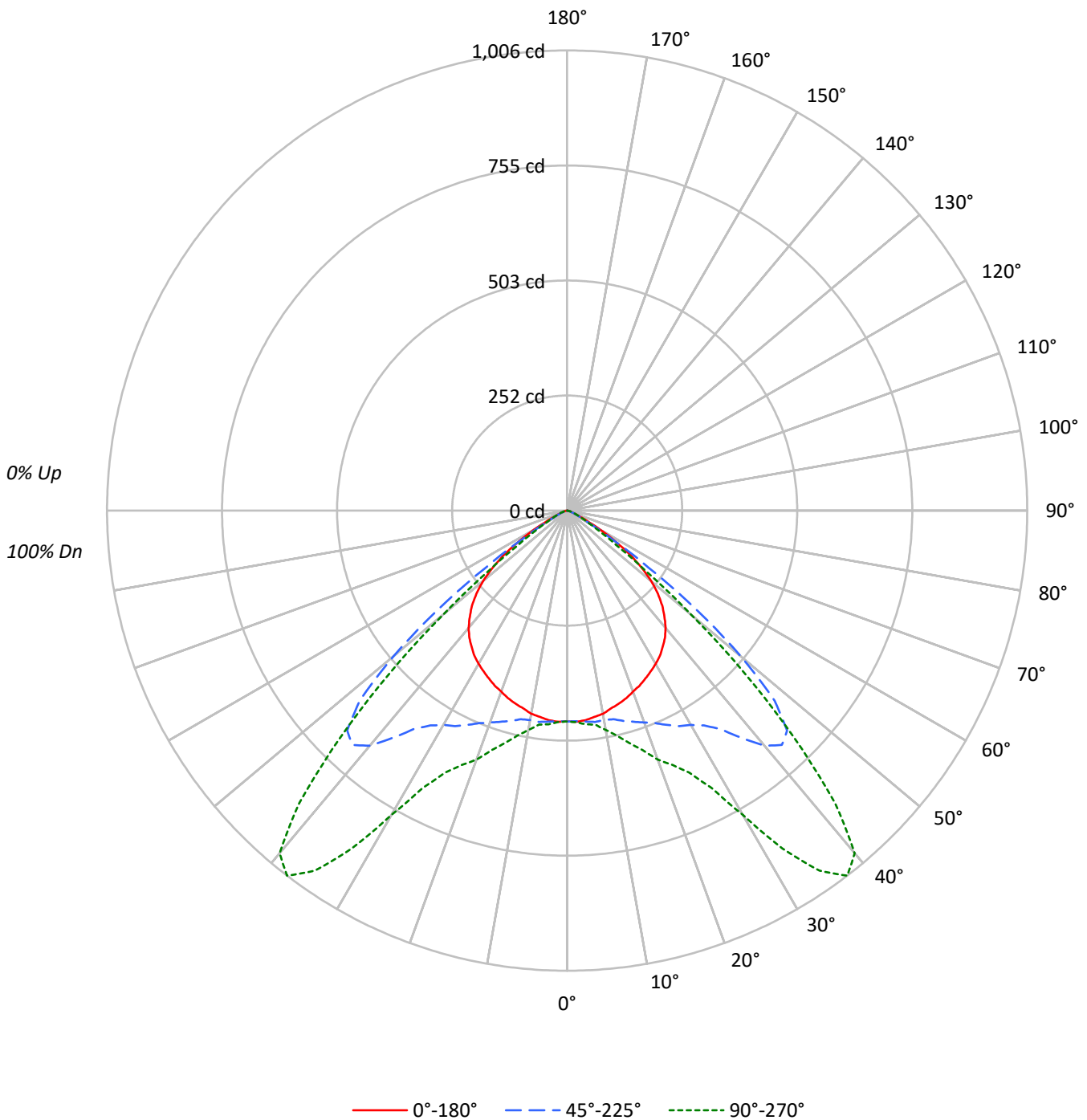
Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1473.1 lumens
Efficiency: 52.6%
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 2.03 / 1.72
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
Input Voltage (V): NR
Input Current (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	63	63	63	63	61	61	61	61	58	58	58	56	56	56	54	54	54	53
1	59	57	55	53	57	56	54	53	53	52	51	51	50	49	50	49	48	47
2	54	51	48	45	53	50	47	45	48	46	44	46	45	43	45	43	42	41
3	50	45	42	39	49	45	41	39	43	40	38	42	39	37	41	39	37	36
4	46	41	37	34	45	40	36	33	39	36	33	38	35	33	37	34	32	31
5	43	37	32	29	42	36	32	29	35	32	29	34	31	29	33	30	28	27
6	39	33	29	26	38	33	28	26	32	28	25	31	28	25	30	27	25	24
7	36	30	26	23	36	29	25	23	29	25	22	28	25	22	27	24	22	21
8	34	27	23	20	33	27	23	20	26	22	20	25	22	20	25	22	20	19
9	32	25	21	18	31	24	21	18	24	20	18	23	20	18	23	20	18	17
10	29	23	19	16	29	22	19	16	22	18	16	21	18	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1784	1784	1784
5°	1787	1799	1822
10°	1772	1827	1914
15°	1751	1907	2108
20°	1734	2030	2385
25°	1729	2208	2699
30°	1729	2418	3432
35°	1720	2750	4540
40°	1693	3390	4941
45°	1609	3722	3842
50°	1445	2992	2125
55°	1127	1464	877
60°	642	457	410
65°	256	211	247
70°	147	124	170
75°	105	75	90
80°	45	22	45
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°	44.3	3.0	1.6	0°	461	461	461	461	461	
10°-20°	136.4	9.3	4.9	5°	460	460	463	467	469	44
20°-30°	241.4	16.4	8.6	15°	437	450	476	511	526	123
30°-40°	390.5	26.5	13.9	25°	405	437	517	594	632	187
40°-50°	433.4	29.4	15.5	35°	364	429	582	829	961	228
50°-60°	188.6	12.8	6.7	45°	294	426	680	735	702	225
60°-70°	31.6	2.1	1.1	55°	167	281	217	150	130	146
70°-80°	6.5	0.4	0.2	65°	28	28	23	26	27	35
80°-90°	0.3	0.0	0.0	75°	7	6	5	6	6	7
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°	422.2	28.7	15.1							
0°-40°	812.7	55.2	29.0							
0°-60°	1434.6	97.4	51.2							
0°-90°	1473.1	100.0	52.6							
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°	1473.1	100.0	52.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461	461	461	461	461
2.5°	462	461	461	462	463
5°	460	460	463	467	469
7.5°	455	459	466	471	472
10°	451	456	465	479	487
12.5°	443	453	467	495	504
15°	437	450	476	511	526
17.5°	430	445	484	527	549
20°	421	438	493	551	579
22.5°	414	438	503	574	602
25°	405	437	517	594	632
27.5°	396	434	531	623	683
30°	387	432	541	670	768
32.5°	377	430	557	755	876
35°	364	429	582	829	961
37.5°	351	427	626	875	1006
40°	335	427	671	891	978
42.5°	315	427	695	847	867
45°	294	426	680	735	702
47.5°	269	420	615	561	526
50°	240	401	497	400	353
52.5°	205	358	358	254	214
55°	167	281	217	150	130
57.5°	124	190	115	89	80
60°	83	107	59	56	53
62.5°	49	54	35	36	38
65°	28	28	23	26	27
67.5°	19	18	17	18	19
70°	13	13	11	13	15
72.5°	9	9	8	9	9
75°	7	6	5	6	6
77.5°	3	3	2	3	3
80°	2	2	1	2	2
82.5°	1	1	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)