

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: ITL49391

Luminaire Tested: **PGX-132S19I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49391
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-132S19I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED SEMI-SPECULAR METAL PARABOLIC 9-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

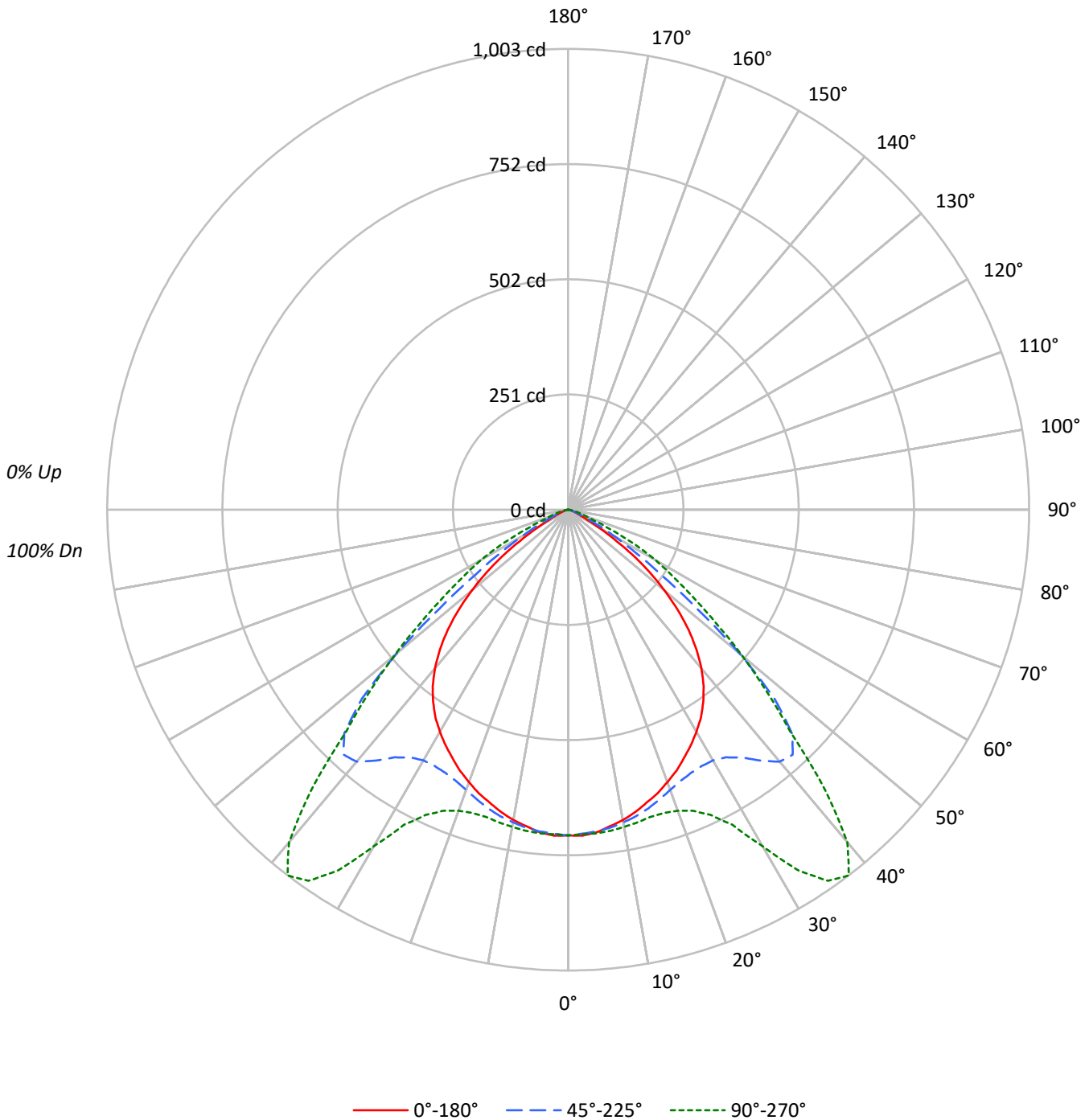
Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1768.3 lumens
Efficiency: 63.2%
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.79 / 1.56
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63				63
1	70	68	66	64	69	67	65	63	64	62	61	62	60	59	59	58	57	56				56
2	65	61	57	54	64	60	57	54	58	55	53	56	53	51	54	52	50	49				49
3	60	55	50	47	59	54	50	46	52	48	46	50	47	45	49	46	44	43				43
4	55	49	44	40	54	48	44	40	47	43	40	45	42	39	44	41	39	37				37
5	51	44	39	35	50	43	39	35	42	38	35	41	37	34	40	37	34	33				33
6	47	40	35	31	46	39	34	31	38	34	31	37	33	30	36	33	30	29				29
7	44	36	31	28	43	36	31	27	35	30	27	34	30	27	33	30	27	26				26
8	41	33	28	25	40	33	28	25	32	27	24	31	27	24	30	27	24	23				23
9	38	30	25	22	37	30	25	22	29	25	22	29	25	22	28	24	22	21				21
10	36	28	23	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2744	2744	2744
5°	2739	2731	2747
10°	2696	2716	2755
15°	2644	2697	2773
20°	2599	2673	2871
25°	2545	2699	3130
30°	2494	2815	3781
35°	2419	3109	4659
40°	2279	3617	4774
45°	2031	3771	3738
50°	1644	2932	2968
55°	1147	1660	2233
60°	550	913	1695
65°	256	430	925
70°	170	215	464
75°	105	135	299
80°	45	89	201
85°	89	44	89



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.9	3.8	2.4	0°	709	709	709	709	709	
10°-20°	190.8	10.8	6.8	5°	705	704	703	705	707	67
20°-30°	302.2	17.1	10.8	15°	660	664	673	686	692	186
30°-40°	437.0	24.7	15.6	25°	596	605	632	691	733	275
40°-50°	450.6	25.5	16.1	35°	512	533	658	869	986	319
50°-60°	242.2	13.7	8.6	45°	371	470	689	701	683	283
60°-70°	63.5	3.6	2.3	55°	170	261	246	304	331	151
70°-80°	13.0	0.7	0.5	65°	28	33	47	75	101	33
80°-90°	2.1	0.1	0.1	75°	7	7	9	15	20	8
90°-100°	0.0	0.0	0.0	85°	2	2	1	2	2	2
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°	559.9	31.7	20.0							
0°-40°	996.9	56.4	35.6							
0°-60°	1689.7	95.6	60.3							
0°-90°	1768.3	100.0	63.2							
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°	1768.3	100.0	63.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	709	709	709	709	709
2.5°	710	709	706	707	707
5°	705	704	703	705	707
7.5°	695	695	698	703	705
10°	686	688	691	698	701
12.5°	674	677	683	693	697
15°	660	664	673	686	692
17.5°	647	652	661	679	692
20°	631	637	649	677	697
22.5°	615	621	639	682	709
25°	596	605	632	691	733
27.5°	578	587	629	716	773
30°	558	569	630	755	846
32.5°	537	551	639	818	930
35°	512	533	658	869	986
37.5°	484	516	688	892	1003
40°	451	501	716	884	945
42.5°	413	486	723	820	828
45°	371	470	689	701	683
47.5°	324	445	608	558	586
50°	273	404	487	463	493
52.5°	223	341	352	377	405
55°	170	261	246	304	331
57.5°	115	175	173	238	269
60°	71	102	118	180	219
62.5°	43	55	77	124	164
65°	28	33	47	75	101
67.5°	19	22	29	46	60
70°	15	16	19	31	41
72.5°	10	11	14	21	30
75°	7	7	9	15	20
77.5°	5	5	6	10	14
80°	2	4	4	7	9
82.5°	2	2	2	4	5
85°	2	2	1	2	2
87.5°	1	1	0	0	1
90°	0	0	0	0	0

(END OF REPORT)