

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: 104P172

Luminaire Tested: **2PGX-332S39I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P172
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-332S39I-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with
a 4" deep 27 cell semi-specular low iridescent
parabolic louver.
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120 Electronic

Summary

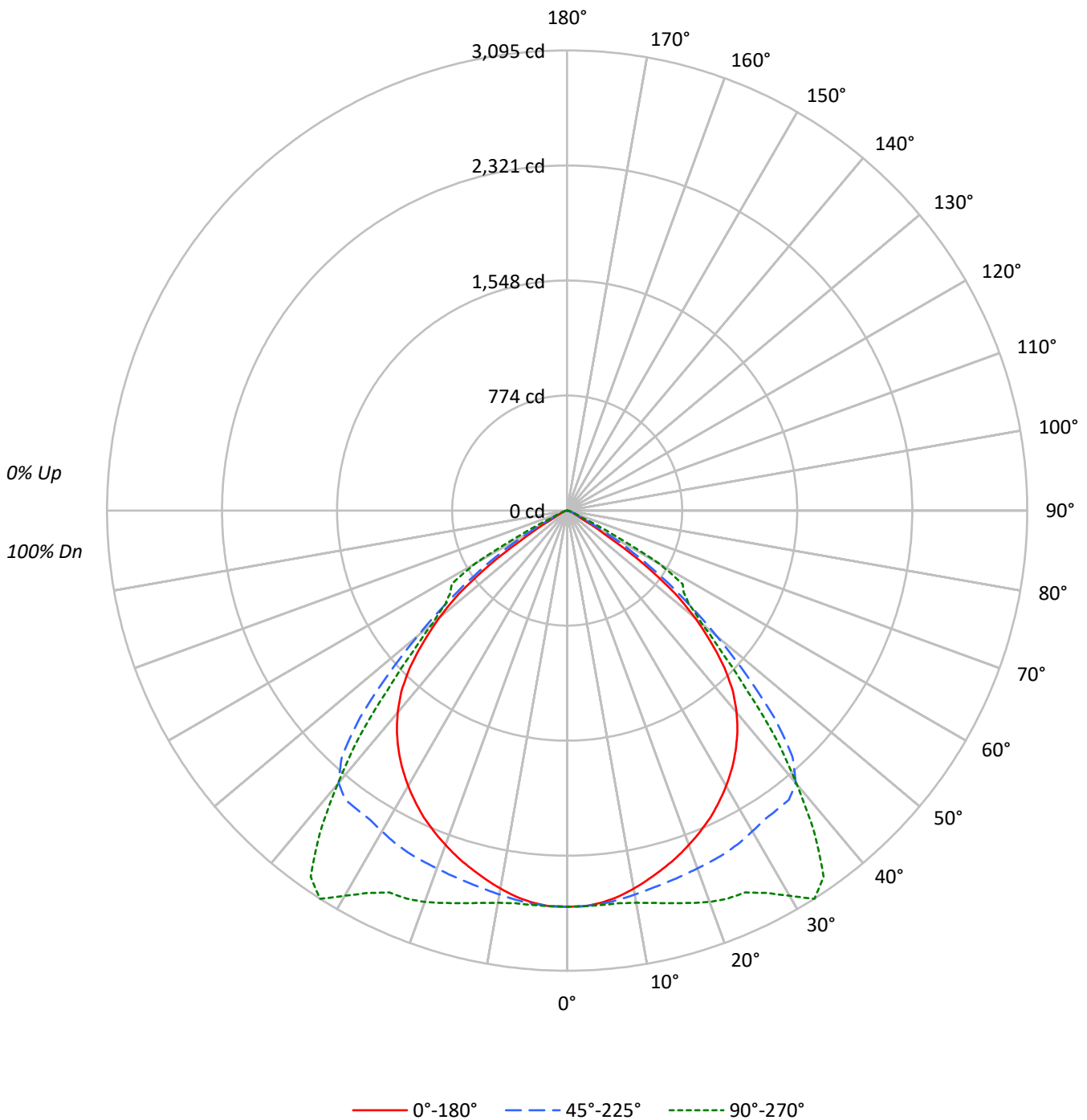
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 5919.6 lumens
Efficiency: 68.0%
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.55 / 1.43
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 91
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	81	81	81	81	79	79	79	79	76	76	76		72	72	72		69	69	69	68
1	76	74	71	70	74	72	70	68	69	68	66		67	65	64		64	63	62	61
2	71	66	63	60	69	65	62	59	63	60	58		61	58	56		59	57	55	54
3	66	60	55	52	64	59	55	51	57	53	50		55	52	50		53	51	49	48
4	61	54	49	45	59	53	49	45	52	48	44		50	47	44		49	46	43	42
5	56	49	44	40	55	48	43	40	47	43	39		46	42	39		44	41	38	37
6	52	44	39	35	51	44	39	35	43	38	35		42	38	35		41	37	34	33
7	49	41	35	32	48	40	35	31	39	35	31		38	34	31		37	34	31	30
8	45	37	32	28	44	37	32	28	36	31	28		35	31	28		34	31	28	27
9	43	34	29	26	42	34	29	26	33	29	26		32	28	25		32	28	25	24
10	40	32	27	23	39	31	27	23	31	26	23		30	26	23		29	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4384	4384	4384
5°	4374	4385	4399
10°	4314	4381	4475
15°	4247	4409	4656
20°	4190	4484	4905
25°	4136	4604	5145
30°	4064	4733	5683
35°	3967	4937	6040
40°	3811	5138	5159
45°	3481	4587	3984
50°	2880	3356	3023
55°	1830	2183	2745
60°	490	1023	2360
65°	234	339	440
70°	154	212	212
75°	114	153	140
80°	85	114	104
85°	57	76	76



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	252.4	4.3	2.9	0°	2664	2664	2664	2664	2664	
10°-20°	736.4	12.4	8.5	5°	2648	2646	2655	2660	2663	251
20°-30°	1176.5	19.9	13.5	15°	2493	2509	2588	2689	2733	704
30°-40°	1525.6	25.8	17.5	25°	2278	2337	2536	2731	2834	1049
40°-50°	1350.9	22.8	15.5	35°	1975	2117	2458	2858	3007	1232
50°-60°	714.7	12.1	8.2	45°	1496	1775	1971	1733	1712	1137
60°-70°	133.0	2.2	1.5	55°	638	744	761	882	957	556
70°-80°	25.5	0.4	0.3	65°	60	73	87	116	113	69
80°-90°	4.7	0.1	0.1	75°	18	22	24	25	22	20
90°-100°	0.0	0.0	0.0	85°	3	4	4	4	4	4
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	2165.3	36.6	24.9	165°	0	0	0	0	0	0
0°-40°	3690.8	62.3	42.4	175°	0	0	0	0	0	0
0°-60°	5756.5	97.2	66.2	180°	0	0	0	0	0	0
0°-90°	5919.6	100.0	68.0							
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°	5919.6	100.0	68.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2664	2664	2664	2664	2664
2.5°	2664	2658	2662	2663	2663
5°	2648	2646	2655	2660	2663
7.5°	2620	2622	2641	2656	2664
10°	2582	2589	2622	2661	2678
12.5°	2539	2550	2604	2673	2703
15°	2493	2509	2588	2689	2733
17.5°	2446	2466	2575	2706	2767
20°	2393	2424	2561	2723	2801
22.5°	2338	2382	2550	2735	2824
25°	2278	2337	2536	2731	2834
27.5°	2211	2291	2517	2734	2898
30°	2139	2239	2491	2787	2991
32.5°	2061	2182	2466	2844	3095
35°	1975	2117	2458	2858	3007
37.5°	1881	2048	2451	2693	2733
40°	1774	1969	2392	2382	2402
42.5°	1650	1881	2243	2052	2079
45°	1496	1775	1971	1733	1712
47.5°	1314	1631	1632	1426	1412
50°	1125	1415	1311	1179	1181
52.5°	914	1108	1022	1003	1032
55°	638	744	761	882	957
57.5°	332	418	526	749	921
60°	149	208	311	536	717
62.5°	86	111	156	270	331
65°	60	73	87	116	113
67.5°	44	53	60	69	66
70°	32	40	44	48	44
72.5°	24	30	32	34	30
75°	18	22	24	25	22
77.5°	13	16	17	18	16
80°	9	11	12	12	11
82.5°	5	7	7	7	7
85°	3	4	4	4	4
87.5°	2	1	1	1	1
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)