

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: 104P169

Luminaire Tested: **2PGX-332S38I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P169
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-332S38I-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with
a 4" deep 24 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

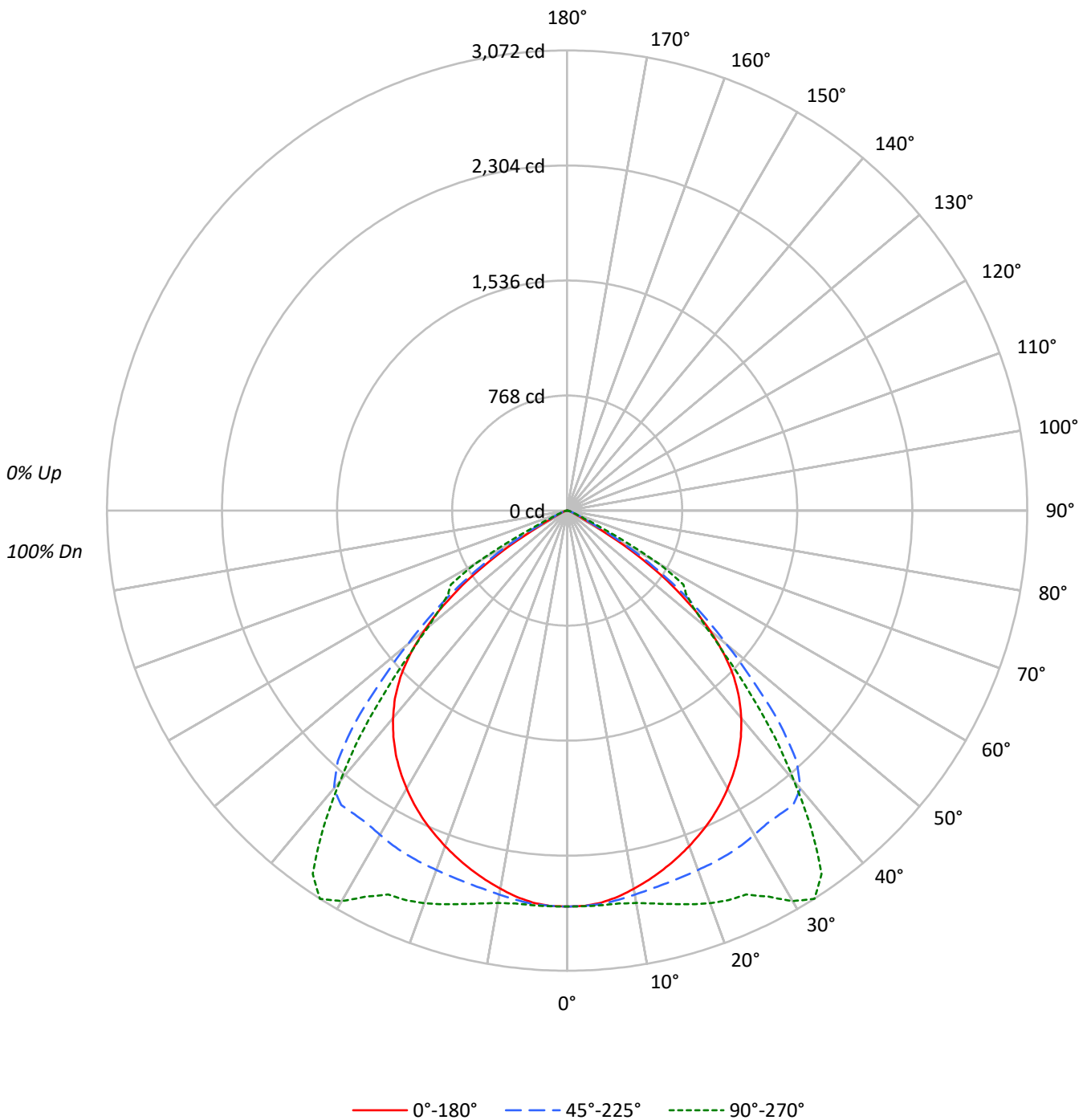
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6046.7 lumens
Efficiency: 69.5%
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.54 / 1.44
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 91.3
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	83	83	83	83	81	81	81	81	77	77	77		74	74	74		71	71	71	70
1	78	75	73	71	76	74	72	70	71	69	68		68	67	66		66	65	64	62
2	72	68	64	61	70	66	63	60	64	61	59		62	59	57		60	58	56	55
3	67	61	56	53	65	60	56	52	58	54	51		56	53	50		54	52	50	48
4	62	55	50	46	60	54	49	45	52	48	45		51	47	44		49	46	44	42
5	57	50	44	40	56	49	44	40	47	43	40		46	42	39		45	42	39	38
6	53	45	40	36	52	44	39	35	43	39	35		42	38	35		41	37	35	33
7	49	41	36	32	48	40	35	32	39	35	31		39	34	31		38	34	31	30
8	46	38	32	28	45	37	32	28	36	32	28		35	31	28		35	31	28	27
9	43	35	29	26	42	34	29	26	33	29	26		33	28	25		32	28	25	24
10	40	32	27	23	40	32	27	23	31	26	23		30	26	23		30	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4349	4349	4349
5°	4339	4354	4367
10°	4284	4349	4444
15°	4225	4385	4632
20°	4173	4470	4884
25°	4127	4601	5134
30°	4072	4748	5719
35°	4003	4972	5948
40°	3886	5202	5063
45°	3665	4661	4014
50°	3184	3558	3095
55°	2335	2547	2780
60°	918	1313	2314
65°	269	389	483
70°	164	212	226
75°	114	146	146
80°	85	104	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°	250.5	4.1	2.9	0°	2643	2643	2643	2643	2643	
10°-20°	732.3	12.1	8.4	5°	2627	2626	2636	2640	2644	249
20°-30°	1175.3	19.4	13.5	15°	2480	2495	2574	2671	2719	700
30°-40°	1515.4	25.1	17.4	25°	2273	2332	2534	2725	2828	1047
40°-50°	1382.8	22.9	15.9	35°	1993	2134	2475	2844	2961	1244
50°-60°	802.9	13.3	9.2	45°	1575	1834	2003	1746	1725	1199
60°-70°	157.4	2.6	1.8	55°	814	935	888	907	969	702
70°-80°	25.2	0.4	0.3	65°	69	84	100	144	124	97
80°-90°	4.8	0.1	0.1	75°	18	21	23	25	23	20
90°-100°	0.0	0.0	0.0	85°	3	3	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°	2158.2	35.7	24.8	165°	0	0	0	0	0	0
0°-40°	3673.6	60.8	42.2	175°	0	0	0	0	0	0
0°-60°	5859.3	96.9	67.3	180°	0	0	0	0	0	0
0°-90°	6046.7	100.0	69.5							
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°	6046.7	100.0	69.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2643	2643	2643	2643	2643
2.5°	2642	2638	2642	2641	2644
5°	2627	2626	2636	2640	2644
7.5°	2600	2603	2621	2636	2646
10°	2564	2572	2603	2640	2660
12.5°	2524	2535	2587	2653	2687
15°	2480	2495	2574	2671	2719
17.5°	2434	2455	2563	2690	2756
20°	2383	2415	2553	2710	2789
22.5°	2330	2374	2545	2725	2815
25°	2273	2332	2534	2725	2828
27.5°	2211	2290	2520	2732	2905
30°	2143	2242	2499	2802	3010
32.5°	2071	2191	2479	2501	3072
35°	1993	2134	2475	2844	2961
37.5°	1905	2071	2478	2664	2679
40°	1809	2001	2422	2358	2357
42.5°	1701	1924	2267	2038	2052
45°	1575	1834	2003	1746	1725
47.5°	1423	1725	1683	1456	1437
50°	1244	1562	1390	1215	1209
52.5°	1042	1298	1134	1035	1061
55°	814	935	888	907	969
57.5°	550	579	643	770	921
60°	279	317	399	578	703
62.5°	122	158	201	323	351
65°	69	84	100	144	124
67.5°	47	55	64	75	71
70°	34	39	44	50	47
72.5°	24	28	32	35	33
75°	18	21	23	25	23
77.5°	13	15	16	17	16
80°	9	10	11	12	11
82.5°	5	7	7	7	7
85°	3	3	4	4	4
87.5°	1	2	2	2	2
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)