

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: 191P103

Luminaire Tested: **2PGX-232S29I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 191P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-232S29I-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a 4" deep
18 cell semi-specular low iridescent parabolic louver.
Light Source: Two FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.6

Summary

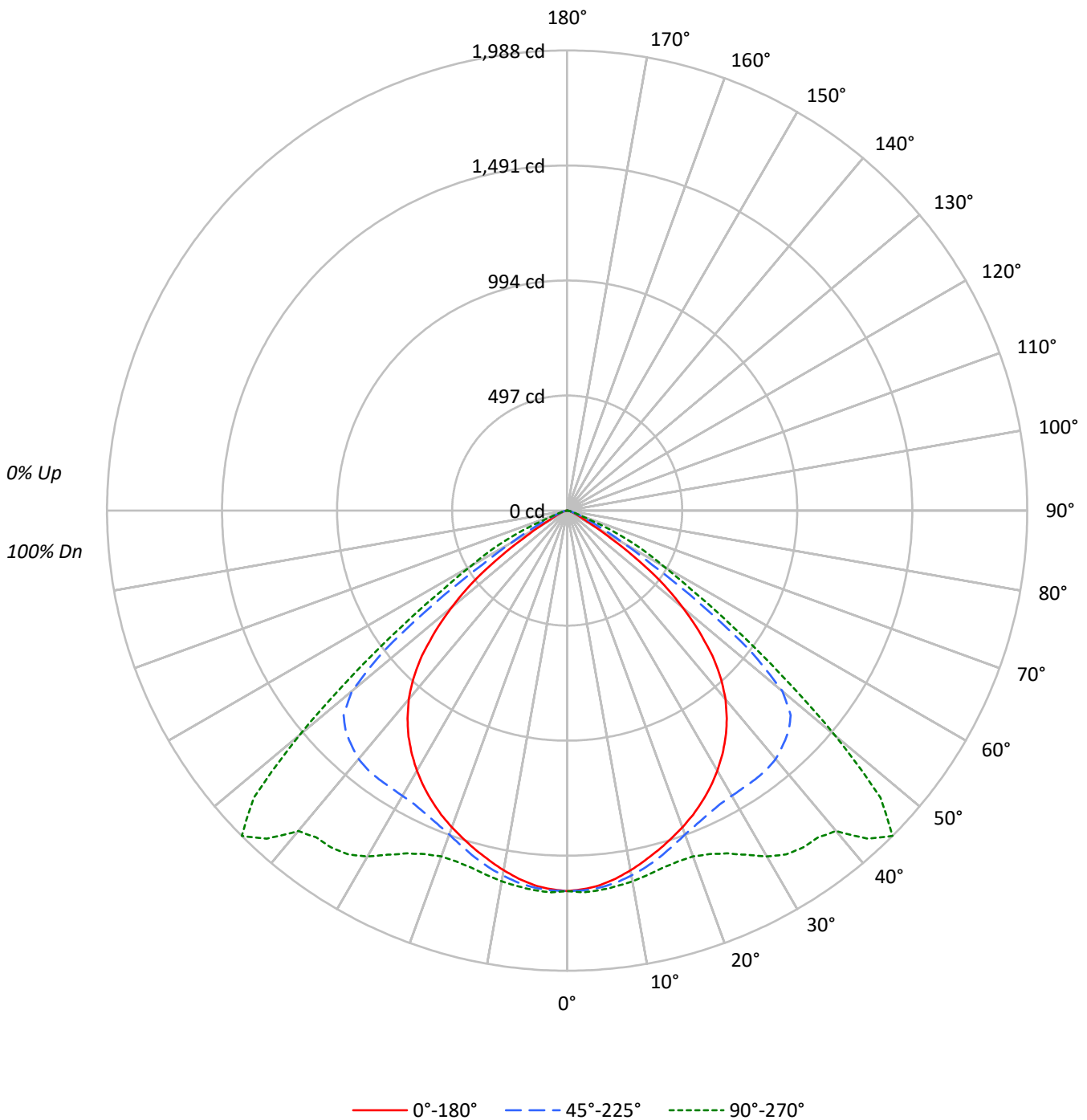
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 3987.1 lumens
Efficiency: 69.9%
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.66 / 1.55
Luminous Opening: Rectangular (W 1.73' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 59.2
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										
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	50	30	10	0														
RCR																																						
0	83	83	83	83	81	81	81	81	78	78	78	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	67	64	60	70	66	63	60	64	61	58	62	59	57	60	57	56	54																				
3	67	60	55	52	65	59	55	51	57	53	50	55	52	49	54	51	49	47																				
4	61	54	49	45	60	53	48	44	51	47	44	50	46	43	49	45	43	41																				
5	57	49	43	39	55	48	43	39	46	42	38	45	41	38	44	40	38	36																				
6	52	44	38	34	51	43	38	34	42	37	34	41	37	34	40	36	33	32																				
7	49	40	34	30	48	39	34	30	38	34	30	37	33	30	36	33	30	28																				
8	45	36	31	27	44	36	31	27	35	30	27	34	30	27	33	29	27	25																				
9	42	33	28	24	41	33	28	24	32	27	24	32	27	24	31	27	24	23																				
10	40	31	26	22	39	30	25	22	30	25	22	29	25	22	29	25	22	21																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2713	2713	2713
5°	2692	2709	2727
10°	2644	2683	2725
15°	2595	2647	2729
20°	2557	2615	2793
25°	2520	2631	2976
30°	2474	2712	3287
35°	2406	2855	3580
40°	2292	3018	3893
45°	2070	3156	4640
50°	1677	3114	3880
55°	1091	2008	2503
60°	419	928	1588
65°	219	422	1004
70°	140	203	270
75°	96	134	128
80°	67	95	86
85°	38	57	57



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	154.9	3.9	2.7	0°	1644	1644	1644	1644	1644	
10°-20°	439.1	11.0	7.7	5°	1625	1628	1635	1639	1646	154
20°-30°	684.5	17.2	12.0	15°	1519	1526	1549	1580	1597	429
30°-40°	902.0	22.6	15.8	25°	1384	1396	1445	1558	1634	637
40°-50°	1028.5	25.8	18.0	35°	1194	1223	1417	1640	1777	744
50°-60°	610.0	15.3	10.7	45°	887	1017	1352	1688	1988	674
60°-70°	141.4	3.5	2.5	55°	379	554	698	809	870	337
70°-80°	23.0	0.6	0.4	65°	56	72	108	182	257	63
80°-90°	3.8	0.1	0.1	75°	15	18	21	22	20	17
90°-100°	0.0	0.0	0.0	85°	2	3	3	3	3	3
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°	1278.5	32.1	22.4	165°	0	0	0	0	0	0
0°-40°	2180.5	54.7	38.3	175°	0	0	0	0	0	0
0°-60°	3818.9	95.8	67.0	180°	0	0	0	0	0	0
0°-90°	3987.1	100.0	69.9							
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°	3987.1	100.0	69.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644	1644	1644	1644	1644
2.5°	1637	1637	1642	1645	1651
5°	1625	1628	1635	1639	1646
7.5°	1604	1609	1621	1630	1637
10°	1578	1585	1601	1617	1626
12.5°	1549	1556	1577	1600	1612
15°	1519	1526	1549	1580	1597
17.5°	1488	1496	1519	1563	1590
20°	1456	1465	1489	1552	1590
22.5°	1422	1431	1465	1549	1606
25°	1384	1396	1445	1558	1634
27.5°	1343	1357	1430	1576	1676
30°	1298	1316	1423	1603	1725
32.5°	1248	1270	1419	1630	1761
35°	1194	1223	1417	1640	1777
37.5°	1133	1177	1413	1635	1780
40°	1064	1127	1401	1631	1807
42.5°	984	1076	1378	1652	1922
45°	887	1017	1352	1688	1988
47.5°	773	944	1310	1626	1836
50°	653	847	1213	1385	1511
52.5°	528	719	1002	1073	1164
55°	379	554	698	809	870
57.5°	227	362	435	591	635
60°	127	201	281	420	481
62.5°	81	112	180	290	372
65°	56	72	108	182	257
67.5°	40	49	65	96	122
70°	29	35	42	51	56
72.5°	21	25	29	32	33
75°	15	18	21	22	20
77.5°	11	13	14	15	13
80°	7	9	10	10	9
82.5°	5	5	6	6	5
85°	2	3	3	3	3
87.5°	1	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)