

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: 189P106

Luminaire Tested: **PGX-232S28I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 189P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-232S28I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with a
4" deep 16 cell semi-specular low iridescent
parabolic louver.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B2321120RH Electronic - L.O.B.F. = 87.6

Summary

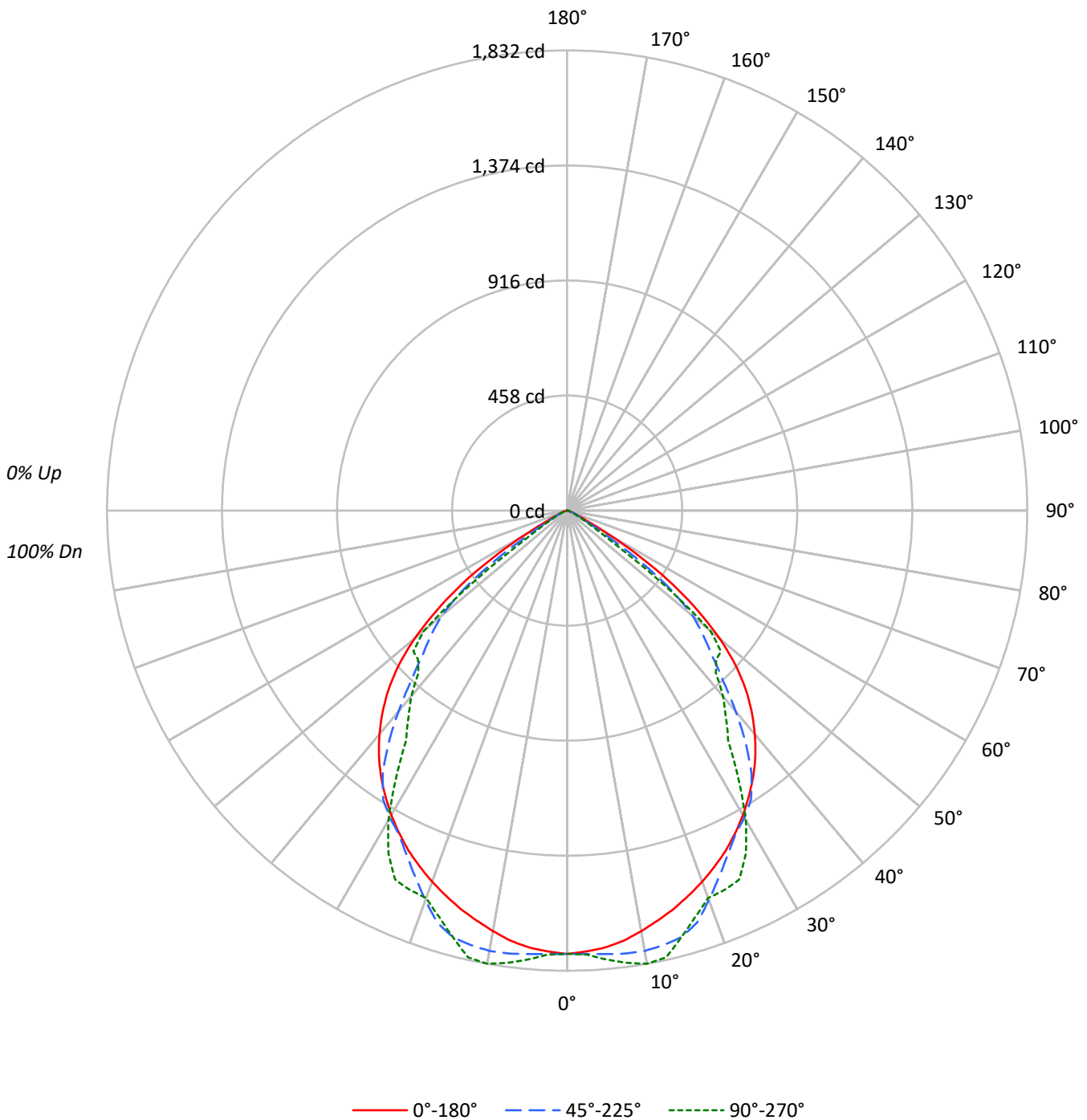
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3217.3 lumens
Efficiency: 57.5%
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.21
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58
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	68	68	68	68	67	67	67	67	64	64	64		61	61	61		59	59	59	57
1	64	62	61	59	63	61	60	58	59	58	56		57	56	55		55	54	53	52
2	60	57	54	51	59	56	53	51	54	51	50		52	50	48		50	49	47	46
3	56	51	48	45	55	50	47	44	49	46	44		47	45	43		46	44	42	41
4	52	47	43	40	51	46	42	39	45	41	39		43	41	38		42	40	38	37
5	49	42	38	35	47	42	38	35	41	37	35		40	37	34		39	36	34	33
6	45	39	35	31	44	38	34	31	37	34	31		36	33	31		36	33	31	30
7	42	36	31	28	41	35	31	28	34	31	28		34	30	28		33	30	28	27
8	40	33	29	26	39	32	28	26	32	28	25		31	28	25		30	27	25	24
9	37	30	26	23	36	30	26	23	29	26	23		29	26	23		28	25	23	22
10	35	28	24	21	34	28	24	21	27	24	21		27	24	21		26	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6850	6850	6850
5°	6802	6903	6989
10°	6699	7015	7220
15°	6593	7063	7063
20°	6492	6815	6777
25°	6398	6475	6941
30°	6274	6323	6377
35°	6121	6064	5297
40°	5892	5294	4889
45°	5516	4468	4605
50°	4794	3955	4492
55°	3485	2470	1549
60°	1514	768	598
65°	478	358	331
70°	250	216	204
75°	150	135	135
80°	89	112	112
85°	45	45	89



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	169.2	5.3	3.0	0°	1765	1765	1765	1765	1765	
10°-20°	485.1	15.1	8.7	5°	1746	1752	1772	1791	1794	165
20°-30°	710.7	22.1	12.7	15°	1641	1688	1758	1769	1758	463
30°-40°	772.4	24.0	13.8	25°	1494	1565	1512	1569	1621	688
40°-50°	676.0	21.0	12.1	35°	1292	1307	1280	1147	1118	806
50°-60°	340.6	10.6	6.1	45°	1005	972	814	789	839	767
60°-70°	50.5	1.6	0.9	55°	515	415	365	311	229	448
70°-80°	11.0	0.3	0.2	65°	52	46	39	37	36	70
80°-90°	1.7	0.1	0.0	75°	10	10	9	9	9	12
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	2	1
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°	1365.0	42.4	24.4	165°	0	0	0	0	0	0
0°-40°	2137.4	66.4	38.2	175°	0	0	0	0	0	0
0°-60°	3154.0	98.0	56.3	180°	0	0	0	0	0	0
0°-90°	3217.3	100.0	57.5							
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°	3217.3	100.0	57.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1765	1765	1765	1765	1765
2.5°	1757	1761	1767	1772	1769
5°	1746	1752	1772	1791	1794
7.5°	1727	1739	1779	1810	1816
10°	1700	1726	1780	1821	1832
12.5°	1671	1709	1772	1820	1822
15°	1641	1688	1758	1769	1758
17.5°	1607	1663	1720	1698	1696
20°	1572	1634	1650	1634	1641
22.5°	1534	1602	1579	1585	1635
25°	1494	1565	1512	1569	1621
27.5°	1448	1517	1452	1527	1540
30°	1400	1458	1411	1425	1423
32.5°	1347	1385	1363	1301	1271
35°	1292	1307	1280	1147	1118
37.5°	1231	1228	1169	1015	1038
40°	1163	1149	1045	938	965
42.5°	1088	1063	919	862	876
45°	1005	972	814	789	839
47.5°	908	864	735	738	830
50°	794	732	655	665	744
52.5°	658	575	532	522	490
55°	515	415	365	311	229
57.5°	354	275	195	148	119
60°	195	159	99	84	77
62.5°	93	80	60	55	52
65°	52	46	39	37	36
67.5°	33	30	27	26	25
70°	22	20	19	18	18
72.5°	15	14	13	13	13
75°	10	10	9	9	9
77.5°	7	7	7	7	7
80°	4	4	5	5	5
82.5°	2	2	3	3	3
85°	1	1	1	1	2
87.5°	0	0	0	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)