

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: 189P105

Luminaire Tested: **PGX-232S26I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 189P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-232S26I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with a
4" deep 12 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

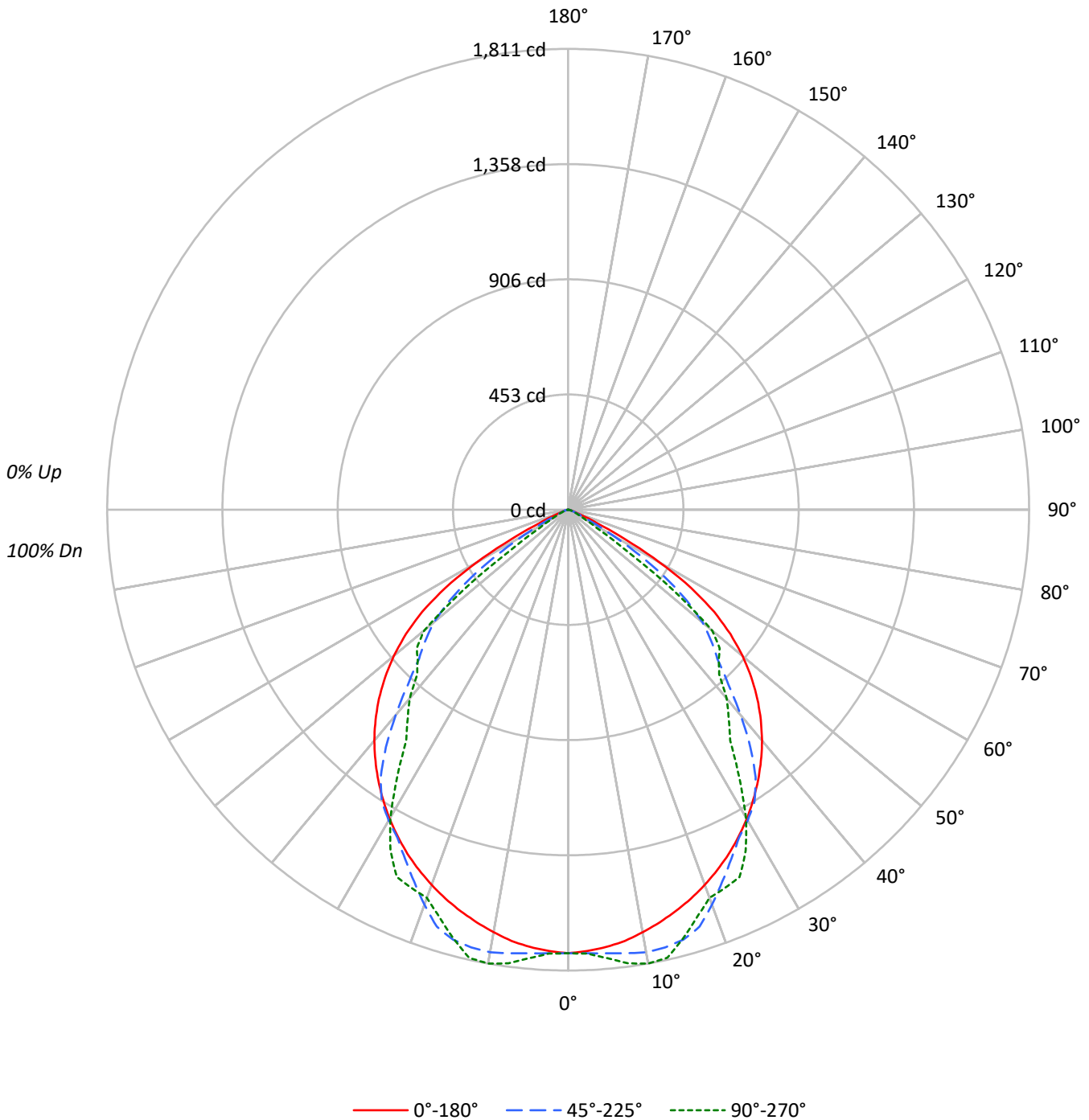
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3351.8 lumens
Efficiency: 59.9%
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.22
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.1
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	71	71	71	71	70	70	70	70	67	67	67	64	64	64	61	61	61	60
1	67	65	63	61	65	64	62	60	61	60	58	59	58	57	57	56	55	54
2	62	59	55	53	61	57	55	52	55	53	51	54	52	50	52	50	49	48
3	58	53	49	46	57	52	48	46	50	47	45	49	46	44	47	45	43	42
4	54	48	44	40	53	47	43	40	46	42	40	44	41	39	43	41	39	37
5	50	44	39	36	49	43	39	36	42	38	35	41	37	35	40	37	34	33
6	47	40	35	32	46	39	35	32	38	34	31	37	34	31	36	33	31	30
7	43	36	32	29	42	36	32	28	35	31	28	34	31	28	33	30	28	27
8	41	33	29	26	40	33	29	26	32	28	26	32	28	26	31	28	25	24
9	38	31	26	24	37	31	26	23	30	26	23	29	26	23	29	26	23	22
10	36	29	24	22	35	28	24	21	28	24	21	27	24	21	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6765	6765	6765
5°	6720	6818	6892
10°	6644	6960	7137
15°	6561	7027	7007
20°	6480	6823	6703
25°	6393	6488	6822
30°	6287	6319	6260
35°	6159	6083	5254
40°	6004	5345	4904
45°	5768	4550	4588
50°	5398	4154	4462
55°	4736	3160	1780
60°	3245	1560	621
65°	1139	487	340
70°	397	272	204
75°	225	180	135
80°	134	112	89
85°	89	89	89



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	167.3	5.0	3.0	0°	1743	1743	1743	1743	1743	
10°-20°	482.6	14.4	8.6	5°	1725	1733	1750	1768	1769	163
20°-30°	708.3	21.1	12.6	15°	1633	1680	1749	1758	1744	461
30°-40°	775.4	23.1	13.8	25°	1493	1569	1515	1552	1593	687
40°-50°	694.3	20.7	12.4	35°	1300	1323	1284	1146	1109	813
50°-60°	425.3	12.7	7.6	45°	1051	1003	829	801	836	807
60°-70°	82.4	2.5	1.5	55°	700	583	467	371	263	609
70°-80°	13.7	0.4	0.2	65°	124	75	53	42	37	162
80°-90°	2.4	0.1	0.0	75°	15	13	12	10	9	18
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	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°	1358.2	40.5	24.3	165°	0	0	0	0	0	0
0°-40°	2133.6	63.7	38.1	175°	0	0	0	0	0	0
0°-60°	3253.2	97.1	58.1	180°	0	0	0	0	0	0
0°-90°	3351.8	100.0	59.9							
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°	3351.8	100.0	59.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743	1743	1743	1743	1743
2.5°	1736	1740	1745	1749	1746
5°	1725	1733	1750	1768	1769
7.5°	1709	1722	1758	1792	1798
10°	1686	1711	1766	1804	1811
12.5°	1661	1697	1762	1804	1803
15°	1633	1680	1749	1758	1744
17.5°	1603	1661	1718	1689	1680
20°	1569	1637	1652	1622	1623
22.5°	1532	1606	1582	1572	1609
25°	1493	1569	1515	1552	1593
27.5°	1449	1524	1453	1510	1511
30°	1403	1469	1410	1413	1397
32.5°	1353	1400	1362	1292	1252
35°	1300	1323	1284	1146	1109
37.5°	1244	1245	1176	1021	1036
40°	1185	1166	1055	950	968
42.5°	1120	1085	932	878	878
45°	1051	1003	829	801	836
47.5°	976	916	761	747	807
50°	894	820	688	675	739
52.5°	803	708	587	566	525
55°	700	583	467	371	263
57.5°	574	449	331	186	131
60°	418	301	201	100	80
62.5°	253	157	99	63	53
65°	124	75	53	42	37
67.5°	59	44	34	29	26
70°	35	29	24	20	18
72.5°	23	20	16	14	13
75°	15	13	12	10	9
77.5°	10	9	8	7	7
80°	6	6	5	5	4
82.5°	4	4	3	3	3
85°	2	2	2	2	2
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)