

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: 115P128

Luminaire Tested: **P2GX-232S213I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 115P128
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P2GX-232S213I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer
with a 2" deep 26 cell semi-specular
low iridescent parabolic louver.
Light Source: Two-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B2321120RH Electronic

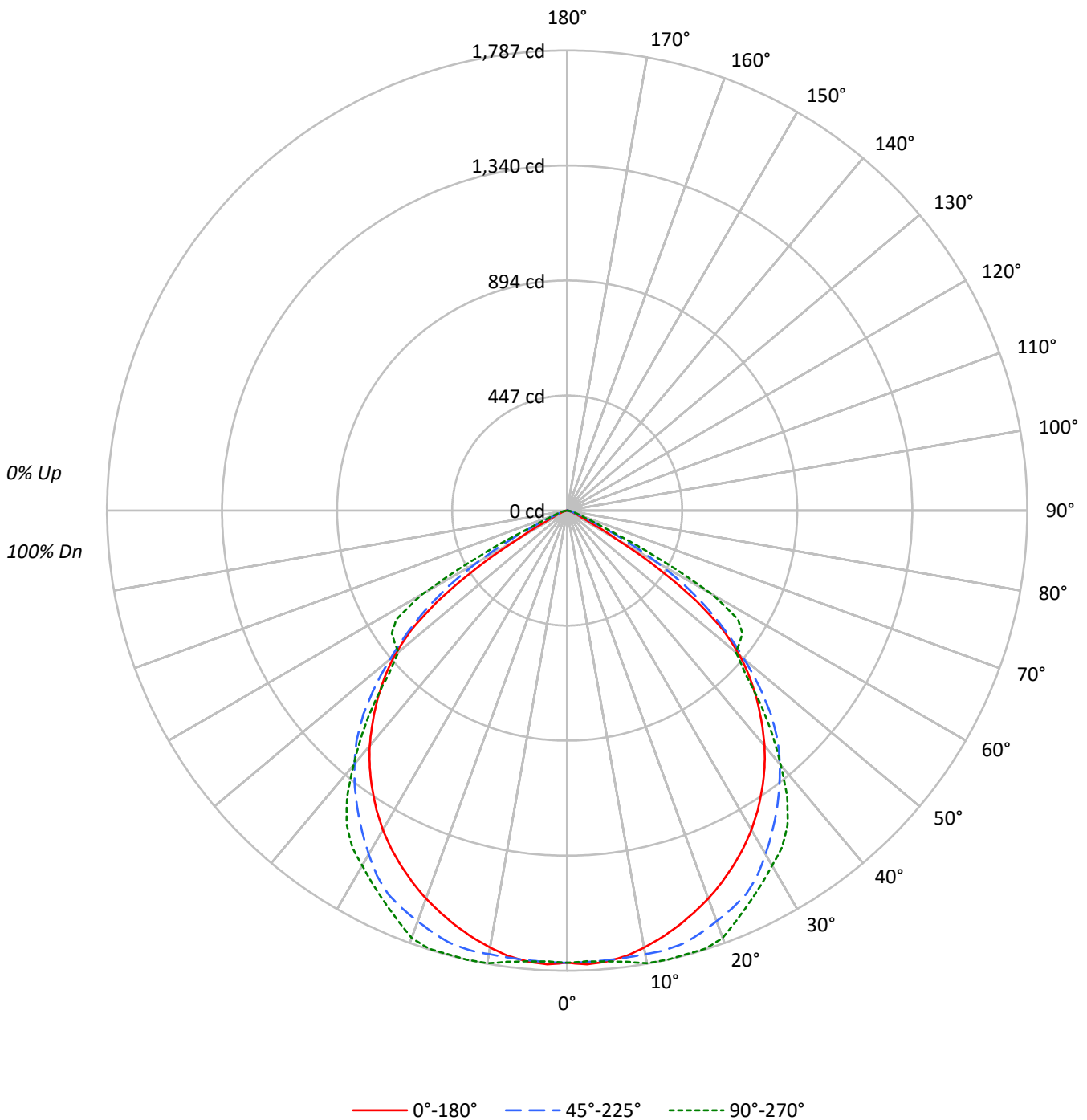
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3916.4 lumens
Efficiency: 67.5%
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.35
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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	50	30	10	0	
RCR																						
0	80	80	80	80	79	79	79	79	75	75	75	72	72	72	69	69	69	68				
1	75	73	71	69	73	71	69	67	68	67	65	66	65	63	64	62	62	60				
2	70	65	62	58	68	64	61	58	62	59	56	60	57	55	58	56	54	53				
3	64	59	54	50	63	58	53	50	56	52	49	54	51	48	52	50	47	46				
4	60	53	48	44	58	52	47	43	50	46	43	49	45	42	47	44	42	40				
5	55	48	42	38	54	47	42	38	45	41	38	44	40	37	43	40	37	36				
6	51	43	38	34	50	43	37	34	41	37	33	40	36	33	39	36	33	32				
7	48	39	34	30	47	39	34	30	38	33	30	37	33	30	36	32	30	28				
8	44	36	31	27	43	36	31	27	35	30	27	34	30	27	33	29	27	25				
9	42	33	28	25	41	33	28	24	32	28	24	31	27	24	31	27	24	23				
10	39	31	26	22	38	30	26	22	30	25	22	29	25	22	28	25	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6796	6796	6796
5°	6830	6810	6826
10°	6771	6873	7015
15°	6687	6976	7148
20°	6602	6989	7274
25°	6508	7020	7166
30°	6395	6887	7115
35°	6237	6704	7049
40°	6027	6492	6522
45°	5709	6125	5813
50°	5268	5401	5148
55°	4143	4507	5607
60°	1711	3135	5024
65°	522	1218	1493
70°	317	441	611
75°	209	299	389
80°	134	201	267
85°	89	133	178



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	167.4	4.3	2.9	0°	1756	1756	1756	1756	1756	
10°-20°	489.0	12.5	8.4	5°	1758	1751	1753	1758	1757	167
20°-30°	746.5	19.1	12.9	15°	1669	1680	1741	1776	1784	471
30°-40°	883.6	22.6	15.2	25°	1524	1575	1644	1668	1678	702
40°-50°	833.6	21.3	14.4	35°	1320	1391	1419	1461	1492	825
50°-60°	605.6	15.5	10.4	45°	1043	1111	1119	1060	1062	802
60°-70°	164.6	4.2	2.8	55°	614	673	668	728	831	521
70°-80°	22.6	0.6	0.4	65°	57	69	133	181	163	78
80°-90°	3.5	0.1	0.1	75°	14	16	20	23	26	16
90°-100°	0.0	0.0	0.0	85°	2	2	3	3	4	2
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°	1402.9	35.8	24.2	165°	0	0	0	0	0	0
0°-40°	2286.5	58.4	39.4	175°	0	0	0	0	0	0
0°-60°	3725.7	95.1	64.2	180°	0	0	0	0	0	0
0°-90°	3916.4	100.0	67.5							
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°	3916.4	100.0	67.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756	1756	1756	1756	1756
2.5°	1764	1756	1755	1756	1752
5°	1758	1751	1753	1758	1757
7.5°	1745	1740	1751	1765	1767
10°	1723	1724	1749	1780	1785
12.5°	1698	1703	1749	1784	1787
15°	1669	1680	1741	1776	1784
17.5°	1637	1657	1721	1770	1784
20°	1603	1633	1697	1758	1766
22.5°	1565	1606	1673	1719	1721
25°	1524	1575	1644	1668	1678
27.5°	1480	1536	1599	1619	1635
30°	1431	1492	1541	1566	1592
32.5°	1378	1443	1481	1515	1552
35°	1320	1391	1419	1461	1492
37.5°	1259	1334	1354	1386	1404
40°	1193	1269	1285	1288	1291
42.5°	1119	1196	1210	1174	1179
45°	1043	1111	1119	1060	1062
47.5°	963	1021	1012	948	938
50°	875	924	897	840	855
52.5°	765	813	784	766	844
55°	614	673	668	728	831
57.5°	423	485	543	668	786
60°	221	296	405	556	649
62.5°	97	140	265	378	388
65°	57	69	133	181	163
67.5°	40	45	63	79	82
70°	28	32	39	49	54
72.5°	20	23	28	33	37
75°	14	16	20	23	26
77.5°	9	11	13	16	18
80°	6	7	9	11	12
82.5°	4	4	5	6	7
85°	2	2	3	3	4
87.5°	0	0	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)