

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: 115P127

Luminaire Tested: **P2GX-232S211I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 115P127
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P2GX-232S211I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer
with a 2" deep 22 cell semi-specular
low iridescent parabolic louver.
Light Source: Two-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B2321120RH Electronic

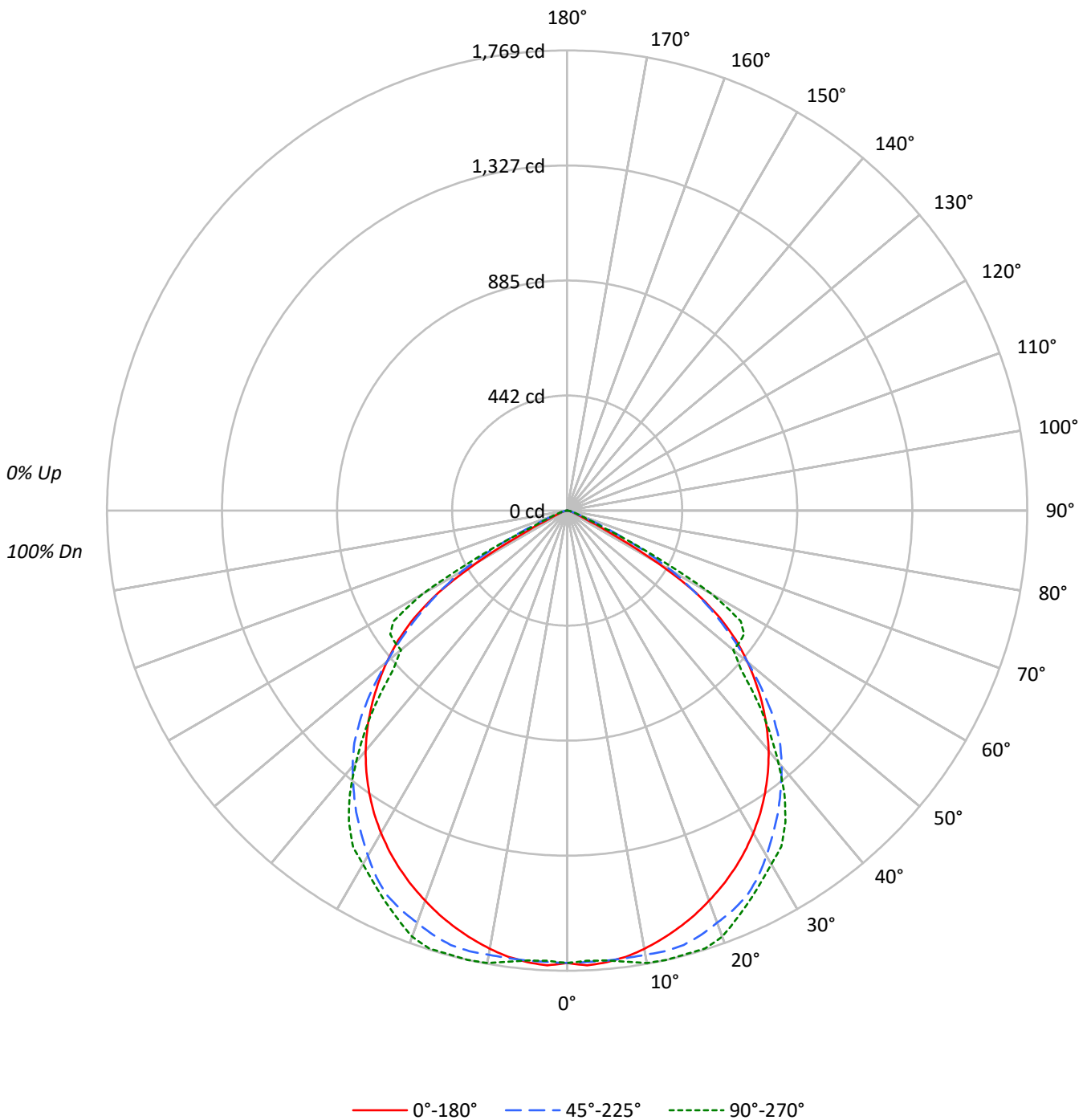
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3973.7 lumens
Efficiency: 68.5%
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.33 / 1.36
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	70	70	70	69	
1	76	74	71	69	74	72	70	68	69	68	66	67	65	64	64	63	62	64	63	62	61	
2	71	66	62	59	69	65	61	58	62	59	57	60	58	56	58	56	55	58	56	55	53	
3	65	59	54	51	64	58	54	50	56	52	49	54	51	48	53	50	48	53	50	48	46	
4	60	53	48	44	59	52	47	44	51	46	43	49	45	42	48	44	42	48	44	42	41	
5	56	48	42	38	54	47	42	38	46	41	38	44	40	37	43	40	37	43	40	37	36	
6	52	43	38	34	50	43	38	34	42	37	33	40	36	33	39	36	33	39	36	33	32	
7	48	40	34	30	47	39	34	30	38	33	30	37	33	30	36	32	29	36	32	29	28	
8	45	36	31	27	44	36	31	27	35	30	27	34	30	27	33	29	27	33	29	27	25	
9	42	33	28	24	41	33	28	24	32	28	24	31	27	24	31	27	24	31	27	24	23	
10	39	31	26	22	38	30	25	22	30	25	22	29	25	22	29	25	22	29	25	22	21	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6730	6730	6730
5°	6772	6748	6744
10°	6724	6815	6940
15°	6651	6928	7072
20°	6573	6944	7179
25°	6495	6978	7076
30°	6395	6846	7016
35°	6265	6681	6912
40°	6088	6482	6376
45°	5824	6125	5649
50°	5449	5455	5022
55°	4831	4669	5600
60°	3104	3615	4985
65°	714	1758	1319
70°	362	509	588
75°	239	299	374
80°	134	201	245
85°	44	89	133



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	165.8	4.2	2.9	0°	1739	1739	1739	1739	1739	
10°-20°	485.3	12.2	8.4	5°	1743	1735	1737	1739	1736	165
20°-30°	741.6	18.7	12.8	15°	1660	1671	1729	1759	1765	468
30°-40°	878.9	22.1	15.2	25°	1521	1571	1634	1652	1657	700
40°-50°	833.2	21.0	14.4	35°	1326	1393	1414	1448	1463	828
50°-60°	643.0	16.2	11.1	45°	1064	1126	1119	1045	1032	818
60°-70°	198.9	5.0	3.4	55°	716	745	692	732	830	618
70°-80°	23.6	0.6	0.4	65°	78	109	192	192	144	129
80°-90°	3.3	0.1	0.1	75°	16	17	20	24	25	18
90°-100°	0.0	0.0	0.0	85°	1	2	2	3	3	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°	1392.7	35.0	24.0	165°	0	0	0	0	0	0
0°-40°	2271.6	57.2	39.2	175°	0	0	0	0	0	0
0°-60°	3747.9	94.3	64.6	180°	0	0	0	0	0	0
0°-90°	3973.7	100.0	68.5							
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°	3973.7	100.0	68.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1739	1739	1739	1739	1739
2.5°	1750	1739	1737	1737	1732
5°	1743	1735	1737	1739	1736
7.5°	1730	1725	1735	1747	1749
10°	1711	1710	1734	1762	1766
12.5°	1687	1692	1735	1767	1769
15°	1660	1671	1729	1759	1765
17.5°	1630	1649	1711	1754	1765
20°	1596	1626	1686	1740	1743
22.5°	1560	1602	1664	1701	1700
25°	1521	1571	1634	1652	1657
27.5°	1478	1534	1589	1602	1612
30°	1431	1491	1532	1549	1570
32.5°	1381	1443	1473	1501	1532
35°	1326	1393	1414	1448	1463
37.5°	1268	1338	1349	1367	1372
40°	1205	1278	1283	1268	1262
42.5°	1137	1207	1211	1157	1151
45°	1064	1126	1119	1045	1032
47.5°	986	1041	1015	933	907
50°	905	950	906	824	834
52.5°	818	855	797	757	834
55°	716	745	692	732	830
57.5°	585	611	582	684	791
60°	401	440	467	584	644
62.5°	189	251	332	400	377
65°	78	109	192	192	144
67.5°	47	54	92	81	79
70°	32	36	45	51	52
72.5°	23	25	29	34	36
75°	16	17	20	24	25
77.5°	10	11	14	16	17
80°	6	7	9	11	11
82.5°	3	4	6	6	7
85°	1	2	2	3	3
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)