

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: 115P123

Luminaire Tested: **PGAX-SS-232S29I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P123
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGAX-SS-232S29I
Description: 1 X 4 Recessed Silver Steel Convertible Body
Troffer with a white powder painted wire way
cover and a 4" deep 18 cell semi-specular
low iridescent parabolic louver.
Light Source: Two-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

Summary

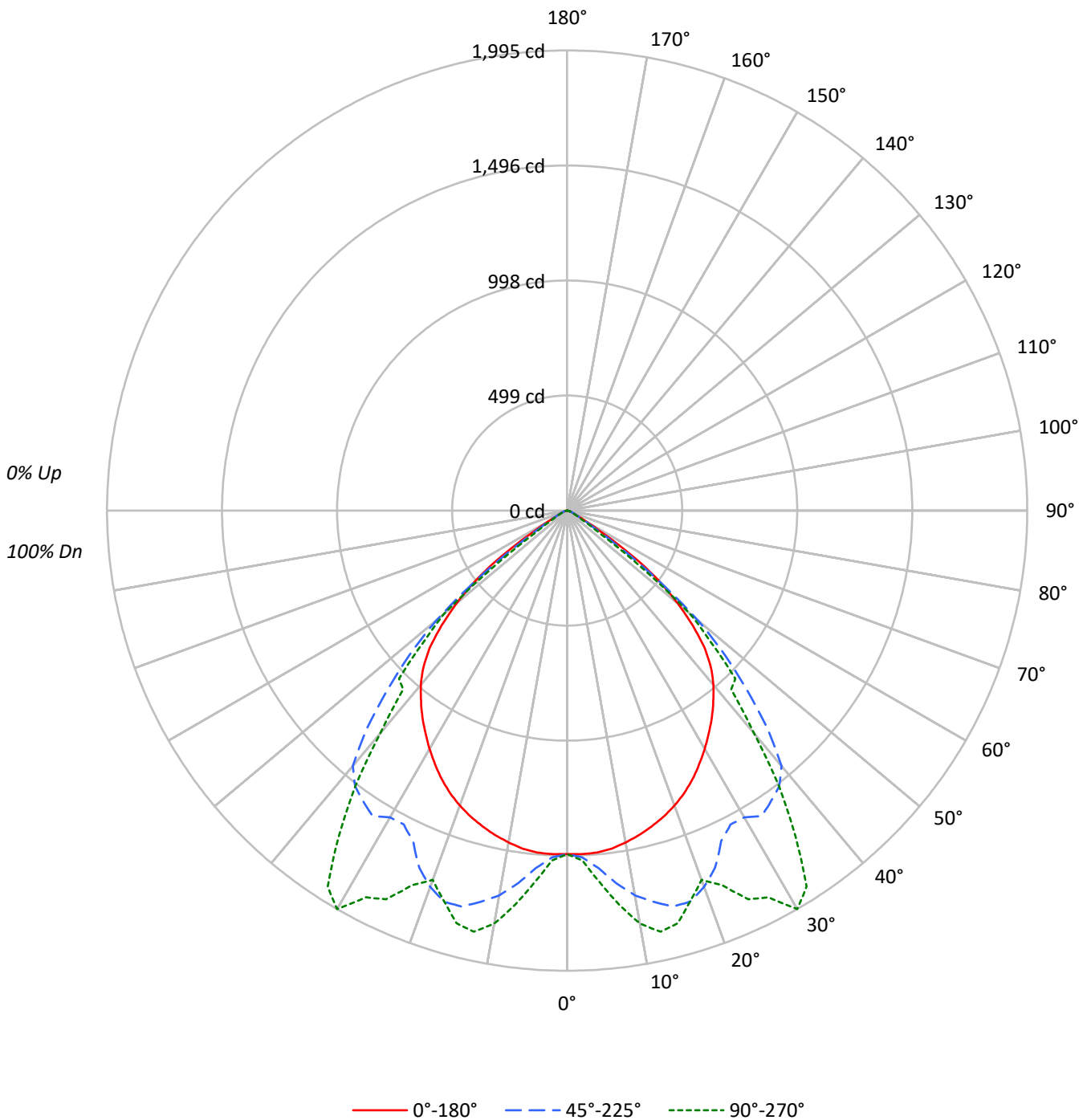
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3433.1 lumens
Efficiency: 59.2%
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.54 / 1.43
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61.1
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: 115P123
CATALOG NUMBER: PGAX-SS-232S29I

Luminous Intensity Polar Plot





TEST NUMBER: 115P123

CATALOG NUMBER: PGAX-SS-232S29I

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	70	70	70	70	69	69	69	69	66	66	66	63	63	63	60	60	60	59
1	66	64	62	61	65	63	61	60	61	59	58	58	57	56	56	55	55	54
2	62	58	55	53	61	57	54	52	55	53	51	53	52	50	52	50	49	48
3	58	53	49	46	56	52	49	46	50	47	45	49	46	44	47	45	44	42
4	54	48	44	41	52	47	43	40	46	42	40	45	42	39	43	41	39	38
5	50	44	39	36	49	43	39	36	42	38	35	41	38	35	40	37	35	34
6	46	40	35	32	45	39	35	32	38	35	32	37	34	32	37	34	31	30
7	43	36	32	29	42	36	32	29	35	31	29	34	31	28	34	31	28	27
8	41	34	29	26	40	33	29	26	32	29	26	32	28	26	31	28	26	25
9	38	31	27	24	37	31	26	24	30	26	24	29	26	23	29	26	23	22
10	36	29	24	22	35	28	24	22	28	24	21	27	24	21	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5861	5861	5861
5°	5880	6144	6389
10°	5840	6771	7267
15°	5775	7242	7547
20°	5701	7272	7138
25°	5585	6867	8074
30°	5423	6982	9068
35°	5257	7400	8299
40°	5072	7430	6480
45°	4693	6151	5739
50°	3834	4538	4256
55°	2443	1880	1187
60°	740	622	457
65°	354	363	289
70°	230	253	207
75°	167	183	152
80°	113	136	113
85°	90	90	90



TEST NUMBER: 115P123

CATALOG NUMBER: PGAX-SS-232S29I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	151.9	4.4	2.6	0°	1489	1489	1489	1489	1489	
10°-20°	477.7	13.9	8.2	5°	1488	1502	1555	1602	1617	141
20°-30°	746.8	21.8	12.9	15°	1417	1577	1777	1851	1852	400
30°-40°	928.4	27.0	16.0	25°	1286	1557	1581	1749	1859	591
40°-50°	772.6	22.5	13.3	35°	1094	1342	1540	1738	1727	683
50°-60°	297.9	8.7	5.1	45°	843	1042	1105	973	1031	637
60°-70°	42.0	1.2	0.7	55°	356	376	274	270	173	313
70°-80°	13.2	0.4	0.2	65°	38	42	39	36	31	44
80°-90°	2.5	0.1	0.0	75°	11	13	12	12	10	12
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	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°	1376.5	40.1	23.7	165°	0	0	0	0	0	0
0°-40°	2304.9	67.1	39.7	175°	0	0	0	0	0	0
0°-60°	3375.4	98.3	58.2	180°	0	0	0	0	0	0
0°-90°	3433.1	100.0	59.2							
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°	3433.1	100.0	59.2							



TEST NUMBER: 115P123

CATALOG NUMBER: PGAX-SS-232S29I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489	1489	1489	1489	1489
2.5°	1491	1492	1505	1517	1519
5°	1488	1502	1555	1602	1617
7.5°	1478	1519	1629	1705	1722
10°	1461	1539	1694	1785	1818
12.5°	1441	1559	1738	1851	1870
15°	1417	1577	1777	1851	1852
17.5°	1391	1583	1777	1804	1775
20°	1361	1577	1736	1694	1704
22.5°	1326	1571	1676	1669	1758
25°	1286	1557	1581	1749	1859
27.5°	1240	1526	1534	1799	1890
30°	1193	1480	1536	1820	1995
32.5°	1143	1418	1570	1859	1932
35°	1094	1342	1540	1738	1727
37.5°	1041	1265	1509	1534	1510
40°	987	1184	1446	1334	1261
42.5°	923	1112	1288	1129	1052
45°	843	1042	1105	973	1031
47.5°	739	928	928	883	847
50°	626	765	741	691	695
52.5°	506	571	500	501	412
55°	356	376	274	270	173
57.5°	196	211	133	119	88
60°	94	107	79	70	58
62.5°	56	59	54	49	42
65°	38	42	39	36	31
67.5°	28	30	29	27	23
70°	20	23	22	21	18
72.5°	15	17	17	16	13
75°	11	13	12	12	10
77.5°	8	9	9	9	7
80°	5	6	6	6	5
82.5°	3	4	4	4	3
85°	2	2	2	2	2
87.5°	1	1	1	0	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



TEST NUMBER: 115P123

CATALOG NUMBER: PGAX-SS-232S29I

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)