

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: 157P101

Luminaire Tested: **P5GX-1BX40S14M/I-HORZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 157P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GX-1BX40S14M/I-HORZ
Description: 1 X 2 Recessed Convertible Body Troffer with a
4 cell specular low iridescent precision cell
II parabolic louver.
Light Source: F40BX/SPX35/RS - 3150 Lumens - 40 Watts
Ballast/Driver: -

Summary

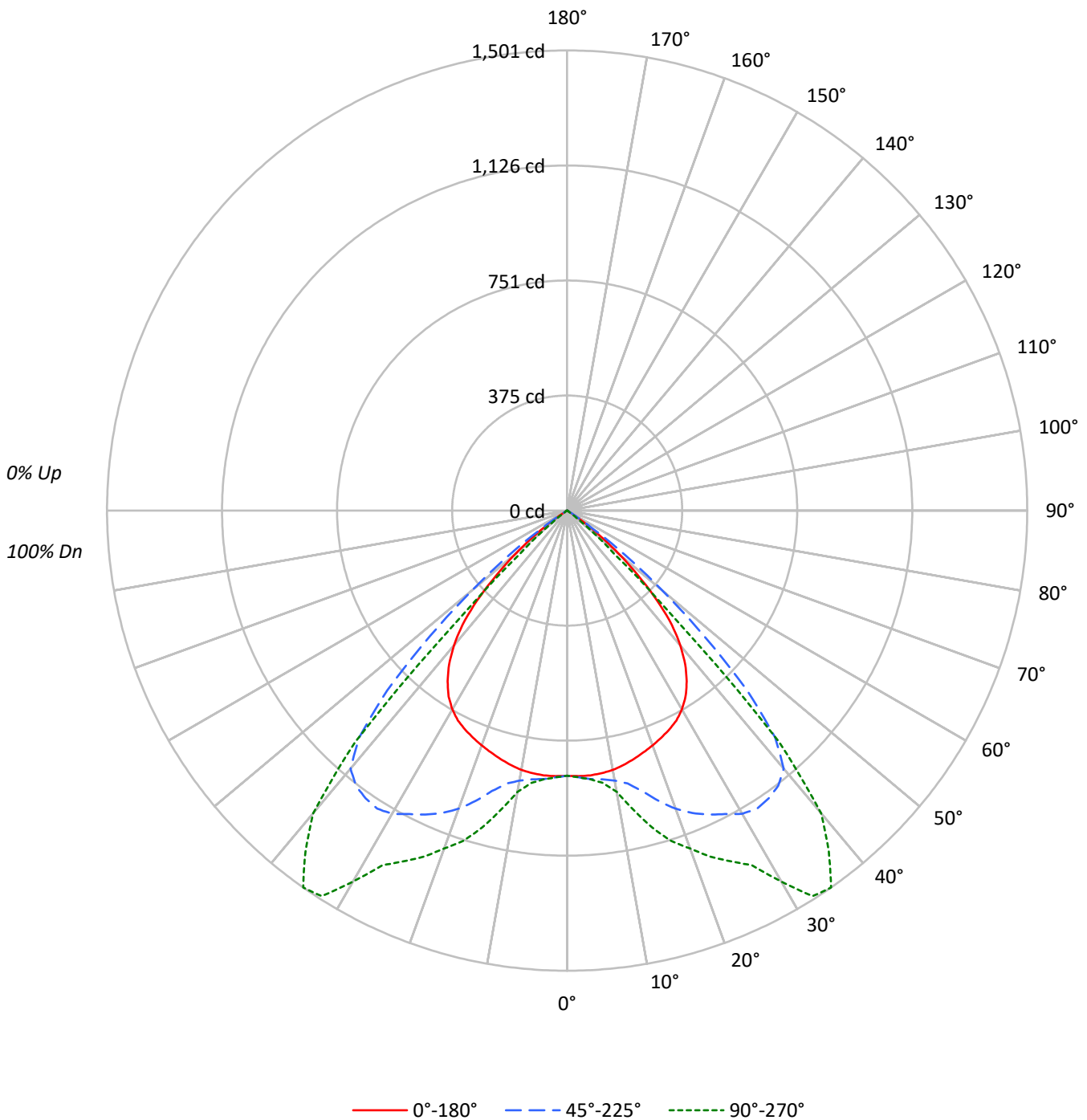
Lumens per Lamp: 3150 (1 lamp)
Luminaire Lumens: 2111.7 lumens
Efficiency: 67.0%
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.81 / 1.5
Luminous Opening: Rectangular (W 0.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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



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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	80	80	80	80	78	78	78	78	74	74	74	71	71	71	68	68	68	67
1	75	73	71	69	74	72	70	68	69	67	66	66	65	64	64	63	62	61
2	71	67	63	61	69	65	62	60	63	61	59	61	59	57	59	58	56	55
3	66	61	57	53	64	60	56	53	58	55	52	56	53	51	55	52	50	49
4	61	55	51	47	60	54	50	47	53	49	46	51	48	46	50	47	45	44
5	57	50	46	42	56	50	45	42	48	44	41	47	44	41	46	43	41	39
6	53	46	41	38	52	45	41	37	44	40	37	43	40	37	42	39	37	35
7	50	42	37	34	49	42	37	34	41	37	33	40	36	33	39	36	33	32
8	47	39	34	30	46	38	34	30	38	33	30	37	33	30	36	33	30	29
9	44	36	31	28	43	35	31	28	35	30	27	34	30	27	33	30	27	26
10	41	33	28	25	40	33	28	25	32	28	25	31	28	25	31	27	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7246	7246	7246
5°	7290	7391	7399
10°	7306	7604	7927
15°	7276	8212	9279
20°	7265	9226	10456
25°	7283	10111	11664
30°	7245	11046	13512
35°	6953	11719	15349
40°	6276	12017	14095
45°	4928	9832	5733
50°	2893	5239	1342
55°	862	1402	146
60°	67	151	67
65°	59	40	40
70°	24	24	24
75°	32	32	32
80°	48	0	48
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	84.2	4.0	2.7	0°	865	865	865	865	865	
10°-20°	271.8	12.9	8.6	5°	867	873	879	881	880	82
20°-30°	490.9	23.2	15.6	15°	839	866	947	1042	1070	237
30°-40°	691.7	32.8	22.0	25°	788	883	1094	1238	1262	363
40°-50°	493.3	23.4	15.7	35°	680	869	1146	1422	1501	421
50°-60°	75.7	3.6	2.4	45°	416	600	830	760	484	313
60°-70°	2.9	0.1	0.1	55°	59	71	96	30	10	70
70°-80°	1.1	0.1	0.0	65°	3	3	2	3	2	3
80°-90°	0.1	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
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°	846.9	40.1	26.9	165°	0	0	0	0	0	0
0°-40°	1538.7	72.9	48.8	175°	0	0	0	0	0	0
0°-60°	2107.6	99.8	66.9	180°	0	0	0	0	0	0
0°-90°	2111.7	100.0	67.0							
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°	2111.7	100.0	67.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865	865	865	865	865
2.5°	867	869	871	872	871
5°	867	873	879	881	880
7.5°	864	875	884	893	896
10°	859	875	894	919	932
12.5°	850	871	912	975	1000
15°	839	866	947	1042	1070
17.5°	827	865	993	1102	1130
20°	815	867	1035	1147	1173
22.5°	802	874	1068	1185	1222
25°	788	883	1094	1238	1262
27.5°	772	892	1116	1270	1304
30°	749	895	1142	1311	1397
32.5°	719	888	1153	1383	1491
35°	680	869	1146	1422	1501
37.5°	633	841	1131	1363	1402
40°	574	799	1099	1223	1289
42.5°	506	720	1004	1048	1023
45°	416	600	830	760	484
47.5°	314	444	607	351	208
50°	222	287	402	161	103
52.5°	135	164	237	82	38
55°	59	71	96	30	10
57.5°	12	22	31	8	5
60°	4	5	9	5	4
62.5°	3	3	4	4	3
65°	3	3	2	3	2
67.5°	2	2	2	2	2
70°	1	2	1	1	1
72.5°	1	1	1	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	0	1	1
82.5°	0	0	0	0	1
85°	0	0	0	0	0
87.5°	0	0	0	0	0
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)