

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: 157P100

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 157P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GX-1BX40S14M/I
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: Triad-Utrad B232I120 Electronic

Summary

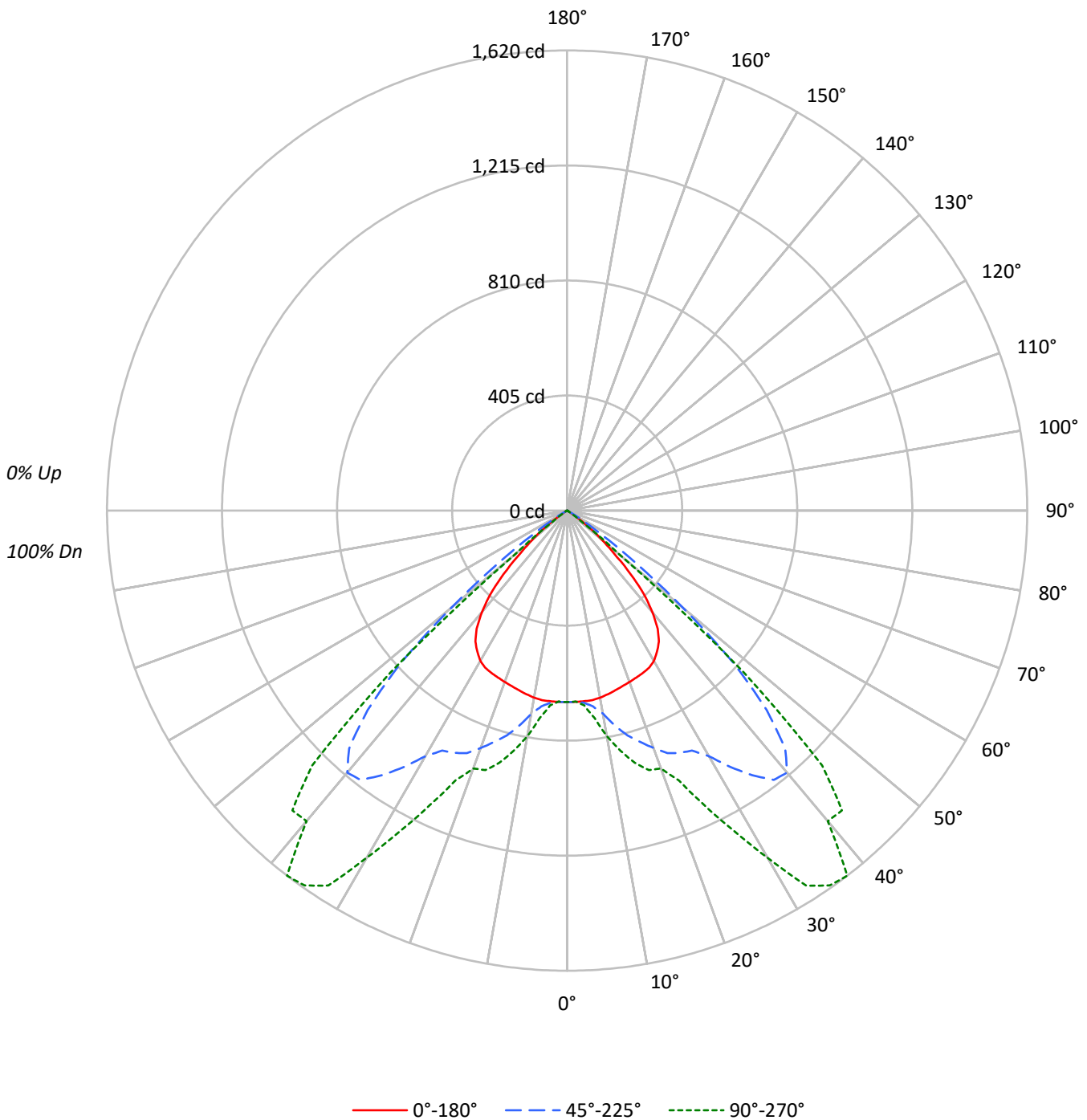
Lumens per Lamp: 3150 (1 lamp)
Luminaire Lumens: 2162.3 lumens
Efficiency: 68.6%
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 2.1 / 1.64
Luminous Opening: Rectangular (W 0.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 42.6
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	77	75	73	71	75	73	71	70	70	69	67	68	66	65	65	64	63	62
2	72	68	64	61	70	66	63	60	64	61	59	62	60	58	60	58	57	55
3	67	61	57	53	65	60	56	53	58	55	52	56	54	51	55	52	50	49
4	62	55	50	47	61	54	50	46	53	49	46	51	48	45	50	47	45	43
5	57	50	45	41	56	49	45	41	48	44	41	47	43	40	46	42	40	39
6	53	46	40	36	52	45	40	36	44	39	36	43	39	36	42	38	35	34
7	50	41	36	32	48	41	36	32	40	35	32	39	35	32	38	34	32	31
8	46	38	33	29	45	37	32	29	37	32	29	36	32	29	35	31	28	27
9	43	35	29	26	42	34	29	26	33	29	26	33	29	26	32	28	26	24
10	40	32	27	23	39	31	27	23	31	26	23	30	26	23	30	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5646	5646	5646
5°	5667	5709	5785
10°	5690	6175	6856
15°	5680	7102	7969
20°	5723	7925	8611
25°	5832	8697	10583
30°	5910	9653	13648
35°	5757	11627	16474
40°	5106	13165	15604
45°	3743	11763	15033
50°	2085	6933	3128
55°	643	2205	277
60°	84	251	117
65°	59	59	79
70°	49	49	49
75°	32	32	32
80°	48	48	0
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°	66.6	3.1	2.1	0°	674	674	674	674	674	
10°-20°	227.0	10.5	7.2	5°	674	675	679	686	688	64
20°-30°	429.4	19.9	13.6	15°	655	688	819	896	919	185
30°-40°	697.0	32.2	22.1	25°	631	768	941	1073	1145	291
40°-50°	631.6	29.2	20.0	35°	563	786	1137	1530	1611	346
50°-60°	105.4	4.9	3.3	45°	316	603	993	1147	1269	239
60°-70°	4.0	0.2	0.1	55°	44	85	151	50	19	52
70°-80°	1.3	0.1	0.0	65°	3	3	3	4	4	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°	722.9	33.4	23.0	165°	0	0	0	0	0	0
0°-40°	1419.9	65.7	45.1	175°	0	0	0	0	0	0
0°-60°	2156.9	99.8	68.5	180°	0	0	0	0	0	0
0°-90°	2162.3	100.0	68.6							
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°	2162.3	100.0	68.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674	674	674	674	674
2.5°	674	674	674	674	673
5°	674	675	679	686	688
7.5°	673	676	695	722	736
10°	669	678	726	786	806
12.5°	662	682	775	845	865
15°	655	688	819	896	919
17.5°	648	703	854	945	958
20°	642	726	889	966	966
22.5°	636	748	924	982	1028
25°	631	768	941	1073	1145
27.5°	624	782	952	1178	1271
30°	611	791	998	1298	1411
32.5°	589	793	1070	1418	1565
35°	563	786	1137	1530	1611
37.5°	524	771	1195	1542	1620
40°	467	747	1204	1495	1427
42.5°	401	694	1136	1294	1432
45°	316	603	993	1147	1269
47.5°	224	458	794	872	843
50°	160	306	532	504	240
52.5°	102	183	308	146	68
55°	44	85	151	50	19
57.5°	11	26	57	13	9
60°	5	7	15	7	7
62.5°	4	4	5	5	6
65°	3	3	3	4	4
67.5°	2	3	3	3	3
70°	2	2	2	2	2
72.5°	1	2	2	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	0	0
82.5°	0	0	0	0	0
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)