

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: 08234

Luminaire Tested: **2GC8-3BX40A-120-EB52**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 08234
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-3BX40A-120-EB52
Description: METALUX 2' X 2' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS
Light Source: (3) HORIZONTAL 40 WATT T5 TWIN TUBE FLUORESCENT LAMPS AT 3100 LUMENS EA
PHILIPS PL-L 40W/41/RS
Ballast/Driver: ONE ADVANCE RCN-3TTP40-SC

Summary

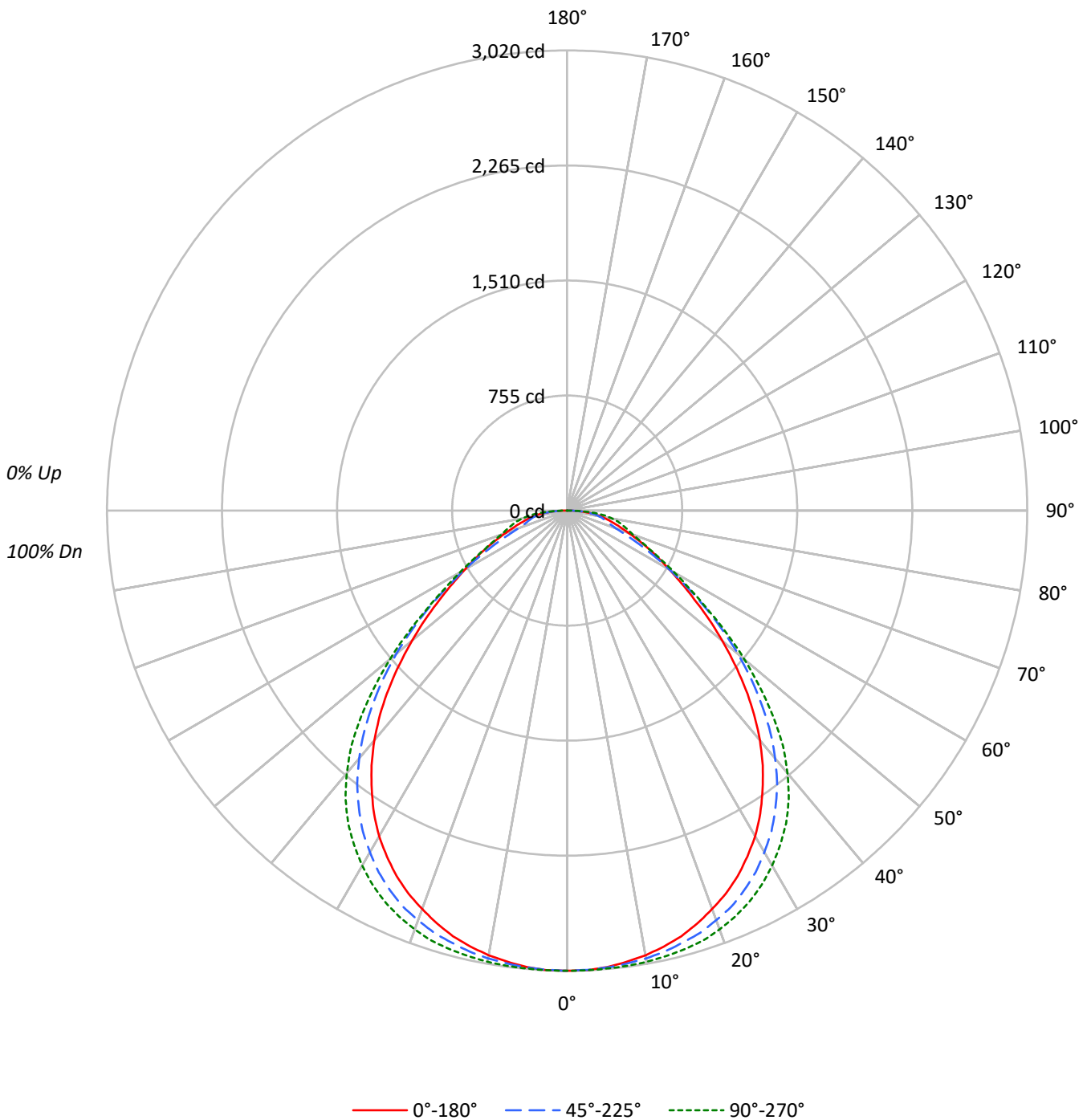
Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 7261.5 lumens
Efficiency: 78.1%
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.32
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 98
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	93	93	93	93	91	91	91	91	87	87	87		83	83	83		80	80	80	78
1	86	82	79	76	84	80	78	75	77	75	73		74	72	71		71	70	68	67
2	79	73	68	64	77	71	67	63	69	65	61		66	63	60		64	61	59	57
3	72	65	59	54	70	63	58	54	61	56	53		59	55	52		57	54	51	49
4	67	58	51	47	65	57	51	46	55	50	46		53	49	45		52	48	44	43
5	62	52	46	41	60	51	45	40	50	44	40		48	43	40		47	43	39	38
6	57	47	41	36	56	47	40	36	45	40	35		44	39	35		43	38	35	33
7	53	43	37	32	52	42	36	32	41	36	32		40	35	31		39	35	31	30
8	50	39	33	29	48	39	33	29	38	32	28		37	32	28		36	32	28	27
9	46	36	30	26	45	36	30	26	35	30	26		34	29	26		33	29	26	24
10	44	34	28	24	43	33	27	24	32	27	24		32	27	23		31	27	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10033	10033	10033
5°	10028	10038	10062
10°	9996	10067	10144
15°	9950	10095	10250
20°	9836	10112	10341
25°	9707	10077	10381
30°	9468	9932	10320
35°	9069	9669	10160
40°	8535	9212	9758
45°	7785	8499	8993
50°	6864	7567	7846
55°	5914	6383	6476
60°	5143	5156	5402
65°	4630	4088	4662
70°	4157	3312	4439
75°	4056	3389	4852
80°	4343	4056	5721
85°	4879	4841	6900



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	286.6	3.9	3.1	0°	3020	3020	3020	3020	3020	
10°-20°	828.9	11.4	8.9	5°	3007	3008	3010	3016	3017	286
20°-30°	1262.8	17.4	13.6	15°	2893	2904	2935	2968	2980	815
30°-40°	1481.1	20.4	15.9	25°	2648	2679	2749	2809	2832	1217
40°-50°	1377.5	19.0	14.8	35°	2236	2286	2384	2465	2505	1395
50°-60°	972.7	13.4	10.5	45°	1657	1713	1809	1874	1914	1274
60°-70°	563.9	7.8	6.1	55°	1021	1050	1102	1095	1118	923
70°-80°	337.8	4.7	3.6	65°	589	533	520	593	593	585
80°-90°	150.2	2.1	1.6	75°	316	298	264	364	378	338
90°-100°	0.0	0.0	0.0	85°	128	119	127	174	181	136
100°-110°	0.0	0.0	0.0	90°	15	13	17	24	25	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	2378.3	32.8	25.6							
0°-40°	3859.4	53.1	41.5							
0°-60°	6209.6	85.5	66.8							
0°-90°	7261.5	100.0	78.1							
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°	7261.5	100.0	78.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3020	3020	3020	3020	3020
2.5°	3019	3018	3017	3019	3020
5°	3007	3008	3010	3016	3017
7.5°	2987	2990	2999	3009	3014
10°	2963	2967	2984	3000	3007
12.5°	2931	2940	2964	2985	2995
15°	2893	2904	2935	2968	2980
17.5°	2841	2862	2905	2944	2960
20°	2782	2807	2860	2909	2925
22.5°	2721	2754	2815	2865	2883
25°	2648	2679	2749	2809	2832
27.5°	2560	2601	2677	2742	2767
30°	2468	2507	2589	2662	2690
32.5°	2359	2402	2496	2568	2602
35°	2236	2286	2384	2465	2505
37.5°	2109	2158	2264	2346	2389
40°	1968	2020	2124	2209	2250
42.5°	1817	1872	1974	2050	2097
45°	1657	1713	1809	1874	1914
47.5°	1491	1547	1638	1678	1716
50°	1328	1384	1464	1481	1518
52.5°	1174	1220	1280	1284	1315
55°	1021	1050	1102	1095	1118
57.5°	891	891	929	928	950
60°	774	756	776	795	813
62.5°	675	626	640	679	692
65°	589	533	520	593	593
67.5°	502	447	415	515	520
70°	428	386	341	458	457
72.5°	368	335	292	414	418
75°	316	298	264	364	378
77.5°	270	254	241	316	344
80°	227	211	212	273	299
82.5°	185	170	178	231	250
85°	128	119	127	174	181
87.5°	65	67	71	98	101
90°	15	13	17	24	25

(END OF REPORT)