

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: 07631

Luminaire Tested: **2GR8-3BX40A-120-EB51**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 07631
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8-3BX40A-120-EB51
Description:
Light Source: (3) HORIZONTAL 40 WATT TWIN TUBE FLUORESCENT LAMPS 3150 LUMENS EACH

PHILIPS PL-L 40W/41/RS
Ballast/Driver: TWO UNIVERSAL LIGHTING TECHNOLOGIES C240SI120RH

Summary

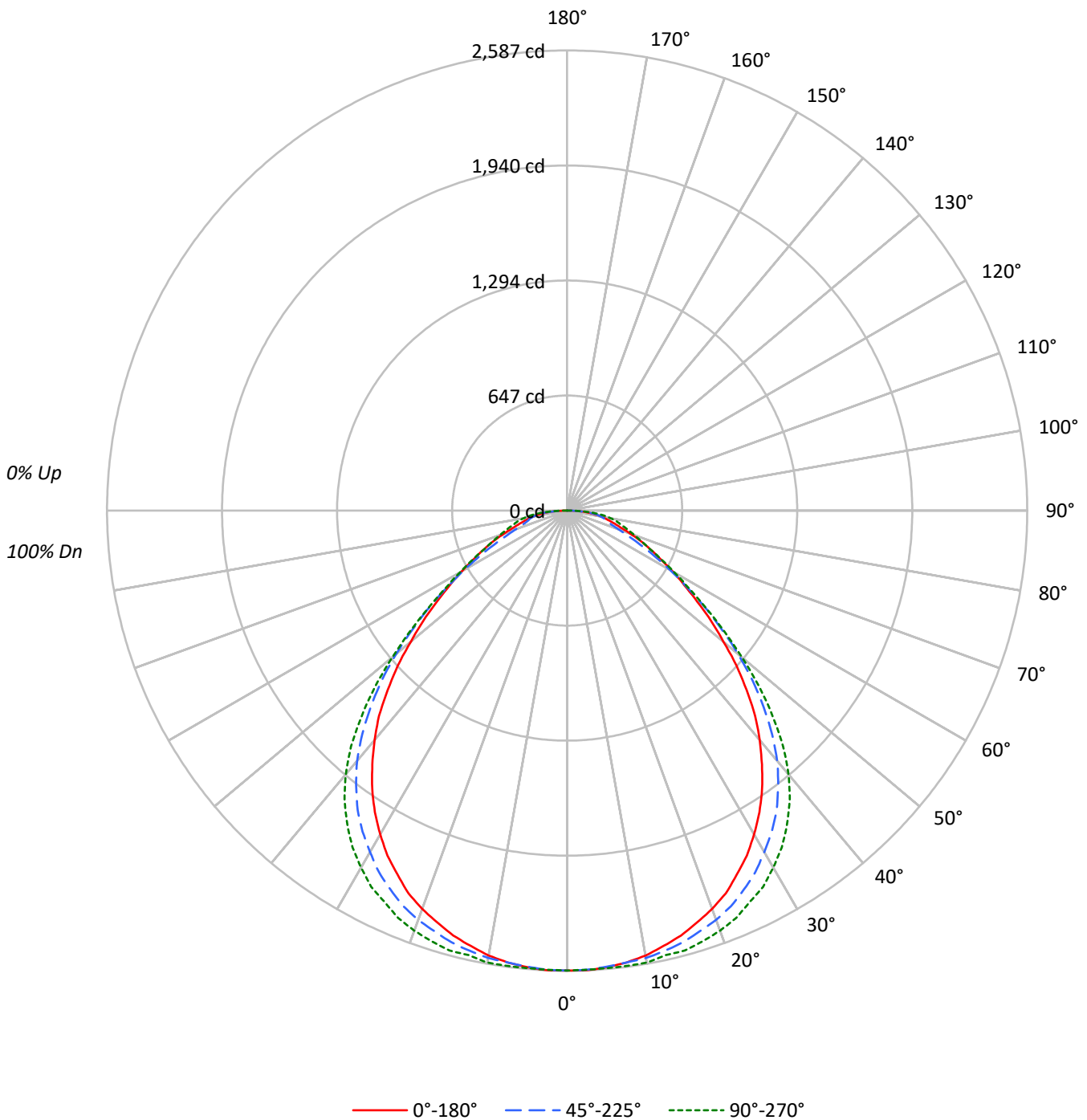
Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 6239.5 lumens
Efficiency: 66.0%
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.33
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

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	79	79	79	79	77	77	77	77	73	73	73		70	70	70		67	67	67	66
1	72	69	67	65	71	68	66	63	65	63	61		63	61	60		60	59	58	56
2	66	61	57	54	65	60	56	53	58	55	52		56	53	51		54	52	50	48
3	61	55	50	46	60	54	49	45	52	48	44		50	47	44		48	45	43	42
4	56	49	43	39	55	48	43	39	46	42	39		45	41	38		44	40	38	36
5	52	44	38	34	51	43	38	34	42	37	34		41	37	33		40	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30		37	33	30		36	32	29	28
7	45	36	31	27	44	36	31	27	35	30	27		34	30	27		33	29	26	25
8	42	33	28	24	41	33	28	24	32	27	24		31	27	24		30	27	24	23
9	39	31	25	22	38	30	25	22	30	25	22		29	25	22		28	24	22	20
10	37	28	23	20	36	28	23	20	27	23	20		27	23	20		26	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8591	8591	8591
5°	8594	8584	8611
10°	8569	8616	8704
15°	8506	8643	8805
20°	8425	8658	8885
25°	8274	8618	8900
30°	8064	8501	8889
35°	7751	8331	8740
40°	7303	7971	8396
45°	6700	7334	7677
50°	5934	6481	6631
55°	5178	5445	5503
60°	4545	4445	4631
65°	4056	3561	4041
70°	3652	2963	3876
75°	3440	2965	4043
80°	3788	3693	4745
85°	4269	4651	5718



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	245.2	3.9	2.6	0°	2586	2586	2586	2586	2586	
10°-20°	709.3	11.4	7.5	5°	2577	2569	2574	2579	2582	245
20°-30°	1081.0	17.3	11.4	15°	2473	2482	2513	2545	2560	697
30°-40°	1272.0	20.4	13.5	25°	2257	2284	2351	2407	2428	1040
40°-50°	1186.7	19.0	12.6	35°	1911	1954	2054	2124	2155	1191
50°-60°	833.3	13.4	8.8	45°	1426	1482	1561	1610	1634	1098
60°-70°	491.2	7.9	5.2	55°	894	903	940	931	950	806
70°-80°	291.9	4.7	3.1	65°	516	464	453	508	514	515
80°-90°	128.9	2.1	1.4	75°	268	256	231	306	315	290
90°-100°	0.0	0.0	0.0	85°	112	111	122	146	150	114
100°-110°	0.0	0.0	0.0	90°	7	5	9	15	17	
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°	2035.5	32.6	21.5							
0°-40°	3307.5	53.0	35.0							
0°-60°	5327.5	85.4	56.4							
0°-90°	6239.5	100.0	66.0							
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°	6239.5	100.0	66.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2586	2586	2586	2586	2586
2.5°	2587	2583	2584	2584	2583
5°	2577	2569	2574	2579	2582
7.5°	2562	2558	2562	2574	2582
10°	2540	2542	2554	2567	2580
12.5°	2507	2509	2535	2557	2560
15°	2473	2482	2513	2545	2560
17.5°	2428	2439	2480	2520	2538
20°	2383	2401	2449	2496	2513
22.5°	2330	2349	2407	2460	2480
25°	2257	2284	2351	2407	2428
27.5°	2187	2219	2292	2354	2385
30°	2102	2138	2216	2286	2317
32.5°	2011	2052	2140	2211	2245
35°	1911	1954	2054	2124	2155
37.5°	1799	1850	1949	2023	2056
40°	1684	1743	1838	1906	1936
42.5°	1565	1621	1705	1770	1798
45°	1426	1482	1561	1610	1634
47.5°	1292	1341	1414	1441	1465
50°	1148	1196	1254	1263	1283
52.5°	1020	1049	1094	1086	1109
55°	894	903	940	931	950
57.5°	781	766	794	794	809
60°	684	647	669	682	697
62.5°	593	547	552	588	599
65°	516	464	453	508	514
67.5°	446	399	370	449	451
70°	376	340	305	398	399
72.5°	315	295	260	350	358
75°	268	256	231	306	315
77.5°	228	223	215	270	288
80°	198	187	193	229	248
82.5°	153	151	165	191	203
85°	112	111	122	146	150
87.5°	53	57	62	77	80
90°	7	5	9	15	17

(END OF REPORT)