

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: 14323

Luminaire Tested: **2PGX-3BX40S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14323
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-3BX40S33I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE

WHITE INTERIOR AND 4" DEEP 9 CELL SEMI-SPECULAR LOW IRIDESCENT PARABOLIC LOUVER

Light Source: THREE GE 40 WATT BIAX LAMPS

F40BX/SPX35/RS. LUMEN RATING = 9450 LMS.

Ballast/Driver: -

Summary

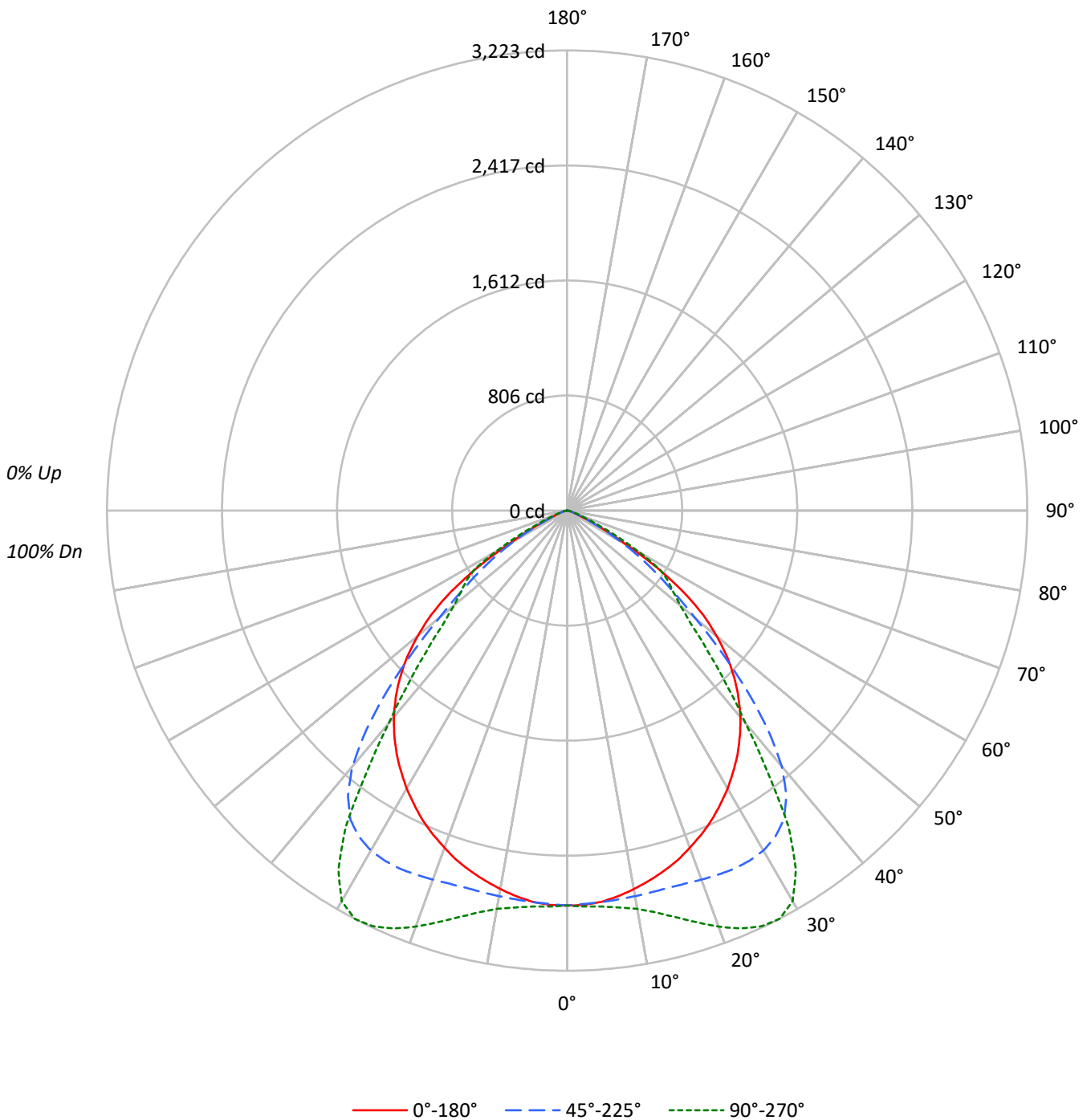
Lumens per Lamp: 9450 (1 lamp)
Luminaire Lumens: 6190.2 lumens
Efficiency: 65.5%
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.44 / 1.37
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 106
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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	73	71	69	67	71	69	67	66	67	65	64		64	63	62		62	61	60	59
2	68	64	60	57	66	63	59	57	60	58	55		58	56	54		56	55	53	52
3	63	57	53	50	61	56	52	49	55	51	48		53	50	47		51	49	47	45
4	58	52	47	43	57	51	46	43	49	46	42		48	45	42		47	44	41	40
5	54	47	42	38	53	46	41	38	45	41	38		44	40	37		43	39	37	36
6	50	43	38	34	49	42	37	34	41	37	33		40	36	33		39	36	33	32
7	47	39	34	30	46	38	34	30	37	33	30		37	33	30		36	32	30	28
8	44	36	31	27	43	35	31	27	34	30	27		34	30	27		33	29	27	26
9	41	33	28	25	40	33	28	25	32	28	25		31	27	24		31	27	24	23
10	38	30	26	22	38	30	26	22	29	25	22		29	25	22		28	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9723	9723	9723
5°	9705	9714	9820
10°	9607	9786	10108
15°	9510	9953	10730
20°	9397	10289	11598
25°	9280	10736	12462
30°	9121	11158	12819
35°	8933	11349	11598
40°	8663	10737	8907
45°	8233	8836	6928
50°	7471	6372	5645
55°	6111	4634	5296
60°	3386	2996	4109
65°	1428	1355	1992
70°	692	692	998
75°	454	454	587
80°	302	302	354
85°	186	145	125



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	263.1	4.3	2.8	0°	2766	2766	2766	2766	2766	
10°-20°	782.6	12.6	8.3	5°	2751	2749	2753	2767	2783	261
20°-30°	1280.1	20.7	13.5	15°	2614	2641	2735	2873	2949	737
30°-40°	1543.9	24.9	16.3	25°	2393	2485	2768	3061	3214	1102
40°-50°	1279.7	20.7	13.5	35°	2082	2267	2645	2725	2703	1300
50°-60°	773.6	12.5	8.2	45°	1656	1897	1778	1446	1394	1269
60°-70°	219.4	3.5	2.3	55°	997	1038	756	772	864	862
70°-80°	41.3	0.7	0.4	65°	172	159	163	224	240	207
80°-90°	6.3	0.1	0.1	75°	33	33	33	40	43	38
90°-100°	0.0	0.0	0.0	85°	5	7	4	5	3	7
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
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°	2325.9	37.6	24.6							
0°-40°	3869.7	62.5	40.9							
0°-60°	5923.1	95.7	62.7							
0°-90°	6190.2	100.0	65.5							
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°	6190.2	100.0	65.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2766.3	2766.3	2766.3	2766.3	2766.3
2.5°	2764.2	2761.1	2757.0	2761.6	2776.0
5°	2750.8	2749.3	2753.4	2766.8	2783.2
7.5°	2724.6	2729.2	2746.7	2778.6	2803.8
10°	2691.7	2701.5	2742.1	2797.1	2832.1
12.5°	2655.2	2672.7	2738.0	2824.9	2882.4
15°	2613.6	2641.3	2735.4	2872.7	2948.7
17.5°	2568.8	2606.4	2740.5	2921.5	3023.3
20°	2512.3	2568.3	2750.8	2978.1	3100.9
22.5°	2455.7	2529.8	2760.6	3025.3	3167.7
25°	2393.0	2485.0	2768.3	3060.8	3213.5
27.5°	2321.6	2434.2	2764.7	3069.6	3222.8
30°	2247.5	2384.3	2749.3	3037.7	3158.5
32.5°	2165.8	2328.8	2710.2	2931.8	2981.6
35°	2082.0	2267.1	2644.9	2724.6	2703.0
37.5°	1987.4	2196.1	2522.1	2424.4	2300.5
40°	1888.2	2118.5	2340.1	2060.4	1941.2
42.5°	1776.6	2017.7	2081.5	1708.8	1648.6
45°	1656.4	1896.9	1777.7	1445.6	1393.7
47.5°	1522.2	1747.9	1460.5	1218.4	1176.7
50°	1366.4	1556.6	1165.4	1019.9	1032.3
52.5°	1200.9	1326.3	943.3	885.7	938.7
55°	997.3	1038.4	756.2	771.6	864.2
57.5°	753.6	740.3	592.2	657.0	771.6
60°	481.7	457.5	426.2	515.6	584.5
62.5°	298.2	265.8	279.6	358.3	401.0
65°	171.7	158.8	162.9	224.1	239.5
67.5°	101.3	98.7	98.7	136.7	145.0
70°	67.3	64.8	67.3	86.4	97.1
72.5°	46.3	45.7	47.3	58.6	63.7
75°	33.4	33.4	33.4	39.6	43.2
77.5°	22.1	23.6	22.1	24.7	27.2
80°	14.9	15.9	14.9	15.9	17.5
82.5°	9.8	9.8	8.7	8.2	8.2
85°	4.6	7.2	3.6	4.6	3.1
87.5°	2.0	3.6	0.5	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)