

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: 155P108

Luminaire Tested: **2P5GX-3BX40S34MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 155P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5GX-3BX40S34MI
Description: 2 X 2 Recessed Convertible Body Luminaire with a 12 cell specular low iridescent precision cell II parabolic louver.
Light Source: Three - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: Magnetek B340I120HP Electronic

Summary

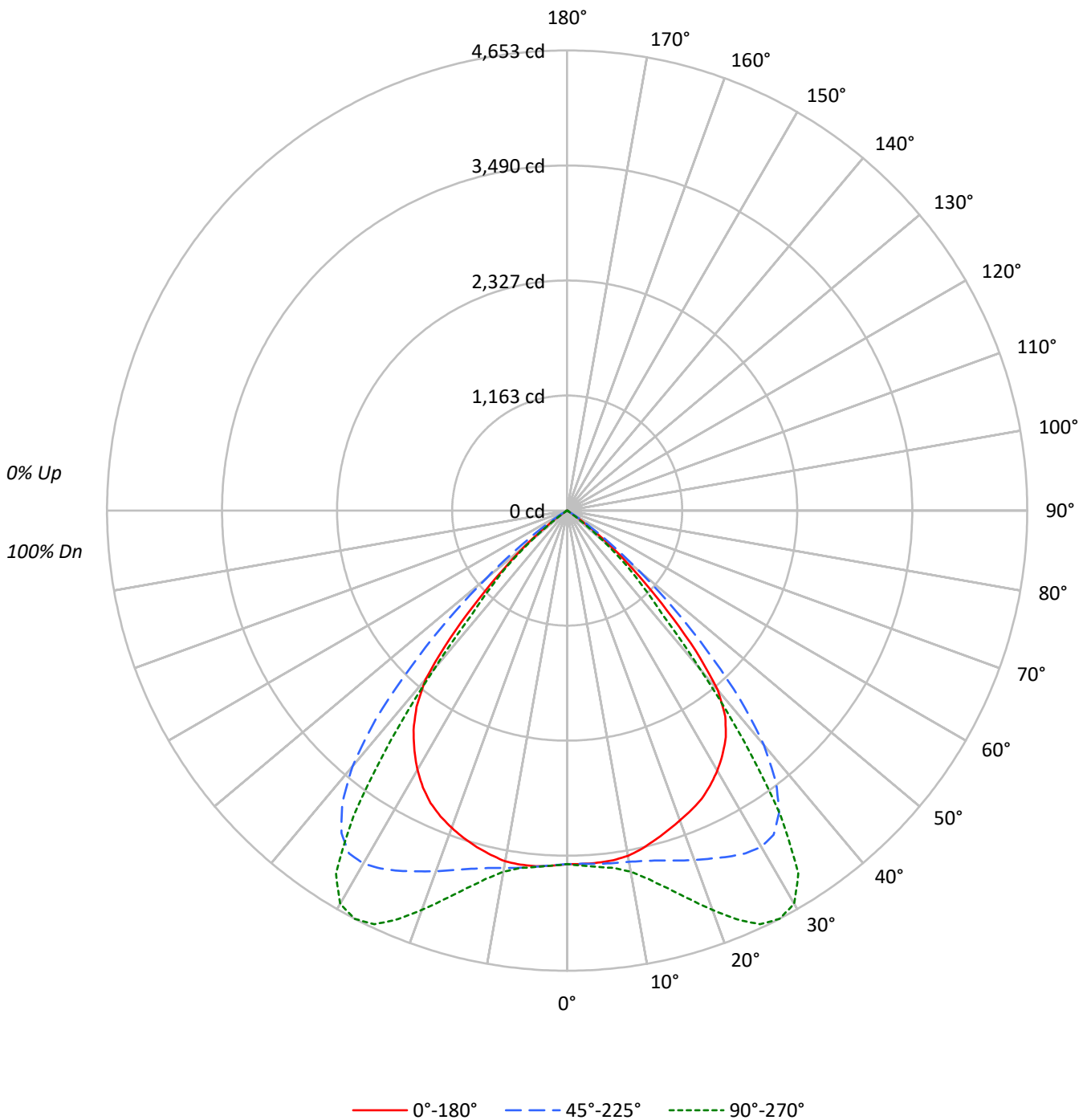
Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 6911.8 lumens
Efficiency: 73.1%
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.46 / 1.35
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 108.7
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	87	87	87	87	85	85	85	85	81	81	81		78	78	78		75	75	75	73
1	82	80	78	76	81	78	77	75	75	74	73		73	71	70		70	69	68	67
2	77	73	70	67	76	72	69	66	70	67	65		67	65	63		65	63	62	61
3	72	67	63	59	71	66	62	59	64	61	58		62	59	57		60	58	56	55
4	68	61	57	53	66	60	56	53	59	55	52		57	54	51		56	53	51	49
5	63	56	51	47	62	55	51	47	54	50	47		53	49	46		52	48	46	45
6	59	52	46	43	58	51	46	43	50	46	42		49	45	42		48	44	42	40
7	56	48	42	39	55	47	42	39	46	42	38		45	41	38		44	41	38	37
8	52	44	39	35	51	43	39	35	43	38	35		42	38	35		41	37	35	33
9	49	41	36	32	48	40	35	32	40	35	32		39	35	32		38	34	32	31
10	46	38	33	30	45	37	33	29	37	32	29		36	32	29		36	32	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12716	12716	12716
5°	12761	12915	12890
10°	12804	13389	13010
15°	12690	14572	12973
20°	12620	16265	12919
25°	12622	18113	12810
30°	12470	18853	12433
35°	12145	16327	11759
40°	11000	9677	10331
45°	7183	5428	6288
50°	3680	2579	3044
55°	794	223	639
60°	128	100	121
65°	93	76	84
70°	62	62	62
75°	55	55	41
80°	41	61	41
85°	41	82	41



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	344.9	5.0	3.6	0°	3575	3575	3575	3575	3575	
10°-20°	1058.0	15.3	11.2	5°	3574	3586	3617	3615	3610	340
20°-30°	1812.4	26.2	19.2	15°	3446	3662	3957	3749	3523	973
30°-40°	2153.7	31.2	22.8	25°	3216	3861	4615	4019	3264	1479
40°-50°	1285.2	18.6	13.6	35°	2797	3735	3760	3979	2708	1728
50°-60°	241.0	3.5	2.6	45°	1428	1998	1079	2233	1250	1118
60°-70°	10.7	0.2	0.1	55°	128	271	36	328	103	188
70°-80°	4.3	0.1	0.0	65°	11	9	9	10	10	11
80°-90°	1.6	0.0	0.0	75°	4	4	4	3	3	4
90°-100°	0.0	0.0	0.0	85°	1	1	2	1	1	1
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°	3215.3	46.5	34.0	165°	0	0	0	0	0	0
0°-40°	5368.9	77.7	56.8	175°	0	0	0	0	0	0
0°-60°	6895.2	99.8	73.0	180°	0	0	0	0	0	0
0°-90°	6911.8	100.0	73.1							
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°	6911.8	100.0	73.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3575	3575	3575	3575	3575	3575	3575	3575	3575
2.5°	3576	3570	3574	3584	3594	3590	3588	3588	3595
5°	3574	3573	3586	3601	3617	3616	3615	3611	3610
7.5°	3566	3573	3595	3623	3645	3647	3643	3627	3611
10°	3545	3561	3606	3668	3707	3700	3669	3633	3602
12.5°	3502	3529	3627	3753	3817	3796	3702	3620	3566
15°	3446	3490	3662	3868	3957	3922	3749	3594	3523
17.5°	3390	3454	3710	3994	4120	4061	3811	3566	3472
20°	3334	3427	3760	4136	4297	4221	3881	3535	3413
22.5°	3279	3401	3808	4275	4472	4383	3949	3503	3347
25°	3216	3375	3861	4402	4615	4531	4019	3466	3264
27.5°	3133	3340	3907	4464	4653	4606	4081	3423	3158
30°	3036	3294	3926	4412	4590	4574	4120	3362	3027
32.5°	2925	3232	3886	4233	4350	4431	4108	3281	2876
35°	2797	3141	3735	3826	3760	4047	3979	3169	2708
37.5°	2626	3012	3471	3154	2928	3365	3734	3028	2501
40°	2369	2814	3094	2398	2084	2581	3377	2843	2225
42.5°	1929	2457	2587	1685	1424	1797	2866	2547	1753
45°	1428	1983	1998	1156	1079	1240	2233	2095	1250
47.5°	998	1491	1443	850	779	908	1628	1610	852
50°	665	1022	954	570	466	617	1078	1133	550
52.5°	367	568	548	309	190	339	637	689	291
55°	128	210	271	96	36	112	328	306	103
57.5°	29	49	97	24	18	28	123	86	24
60°	18	19	24	16	14	17	31	22	17
62.5°	14	14	13	13	11	13	13	14	13
65°	11	10	9	10	9	10	10	10	10
67.5°	8	8	7	8	7	8	7	8	7
70°	6	7	6	6	6	6	6	7	6
72.5°	5	5	5	5	4	5	5	5	4
75°	4	4	4	4	4	4	3	4	3
77.5°	3	4	3	3	4	3	3	3	2
80°	2	3	2	3	3	3	3	2	2
82.5°	2	2	2	2	2	2	2	2	2
85°	1	1	1	2	2	2	1	2	1
87.5°	1	1	1	1	2	1	1	1	0
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)