

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: 126P111

Luminaire Tested: **2GC-3BX40PB2S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P111
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-3BX40PB2S-PAF
Description: 2 X 2 Recessed Convertible Body Troffer with a specular
silver injection molded parabolic louver 1.5" X 1.5" X 1".
Light Source: Three - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: Magnetek C340I120RH Electronic - L.O.B.F. = 90.8

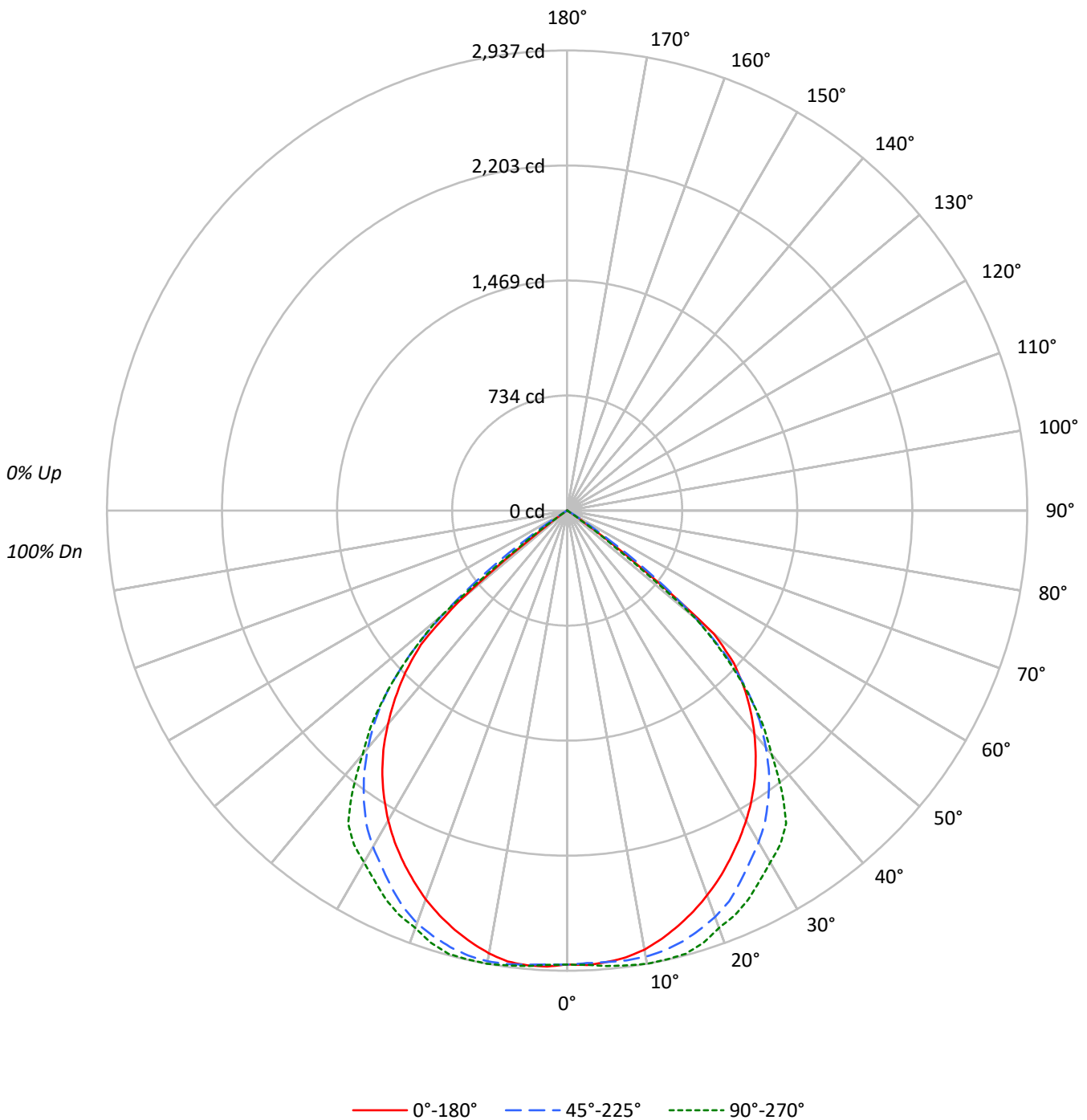
Summary

Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 5187.9 lumens
Efficiency: 54.9%
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.32 / 1.3
Luminous Opening: Rectangular (W 1.71' x L: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 99.8
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	65	65	65	65	64	64	64	64	61	61	61	58	58	58	56	56	56	55
1	62	60	58	57	60	59	57	56	57	55	54	54	54	53	53	52	51	50
2	58	55	52	50	57	54	51	49	52	50	48	50	49	47	49	47	46	45
3	54	50	47	44	53	49	46	44	48	45	43	46	44	42	45	43	41	41
4	51	46	42	39	49	45	41	39	44	41	38	42	40	38	41	39	37	36
5	47	42	38	35	46	41	37	35	40	37	34	39	36	34	38	36	34	33
6	44	38	34	31	43	38	34	31	37	33	31	36	33	31	35	33	31	30
7	41	35	31	28	40	35	31	28	34	31	28	33	30	28	33	30	28	27
8	39	32	28	26	38	32	28	26	31	28	25	31	28	25	30	27	25	24
9	36	30	26	23	36	30	26	23	29	26	23	29	25	23	28	25	23	22
10	34	28	24	21	33	28	24	21	27	24	21	27	23	21	26	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10621	10621	10621
5°	10646	10738	10724
10°	10591	10933	10684
15°	10411	11113	10513
20°	10194	11056	10300
25°	9939	11075	10012
30°	9673	10977	9669
35°	9345	10907	9206
40°	8897	9710	8519
45°	8280	8363	7564
50°	6970	6103	5099
55°	895	614	377
60°	44	37	37
65°	35	35	26
70°	21	21	21
75°	14	14	14
80°	0	21	0
85°	0	42	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	277.2	5.3	2.9	0°	2897	2897	2897	2897	2897	
10°-20°	804.7	15.5	8.5	5°	2893	2893	2918	2909	2914	275
20°-30°	1208.2	23.3	12.8	15°	2743	2847	2928	2884	2770	773
30°-40°	1401.8	27.0	14.8	25°	2457	2614	2738	2653	2475	1132
40°-50°	1200.1	23.1	12.7	35°	2088	2239	2437	2262	2057	1303
50°-60°	289.8	5.6	3.1	45°	1597	1630	1613	1616	1459	1216
60°-70°	3.8	0.1	0.0	55°	140	323	96	300	59	286
70°-80°	1.5	0.0	0.0	65°	4	3	4	3	3	4
80°-90°	0.6	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	0	1	1	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°	2290.1	44.1	24.2	165°	0	0	0	0	0	0
0°-40°	3692.0	71.2	39.1	175°	0	0	0	0	0	0
0°-60°	5182.0	99.9	54.8	180°	0	0	0	0	0	0
0°-90°	5187.9	100.0	54.9							
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°	5187.9	100.0	54.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2897	2897	2897	2897	2897	2897	2897	2897	2897
2.5°	2903	2895	2891	2897	2902	2900	2899	2903	2913
5°	2893	2888	2893	2908	2918	2917	2909	2907	2914
7.5°	2877	2876	2896	2917	2927	2930	2919	2903	2903
10°	2845	2852	2891	2923	2937	2940	2921	2886	2870
12.5°	2798	2816	2876	2920	2934	2941	2910	2854	2824
15°	2743	2774	2847	2909	2928	2934	2884	2814	2770
17.5°	2682	2724	2807	2884	2892	2912	2847	2764	2709
20°	2613	2664	2760	2822	2834	2851	2803	2705	2640
22.5°	2539	2600	2700	2762	2795	2793	2738	2637	2559
25°	2457	2533	2614	2704	2738	2739	2653	2564	2475
27.5°	2373	2457	2526	2627	2662	2662	2562	2481	2384
30°	2285	2371	2444	2541	2593	2574	2479	2387	2284
32.5°	2191	2278	2352	2446	2530	2479	2382	2283	2174
35°	2088	2178	2239	2352	2437	2385	2262	2165	2057
37.5°	1977	2064	2117	2218	2249	2252	2130	2036	1926
40°	1859	1939	1974	2003	2029	2037	1980	1892	1780
42.5°	1733	1802	1819	1775	1846	1806	1813	1733	1624
45°	1597	1650	1630	1577	1613	1603	1616	1560	1459
47.5°	1444	1459	1386	1317	1356	1337	1357	1349	1266
50°	1222	1131	1079	969	1070	981	1046	1013	894
52.5°	549	707	717	588	396	596	681	581	249
55°	140	193	323	161	96	164	300	140	59
57.5°	18	36	92	30	10	30	84	24	8
60°	6	6	15	5	5	5	13	5	5
62.5°	4	4	4	5	4	5	4	4	4
65°	4	4	3	3	4	4	3	4	3
67.5°	3	3	3	3	3	3	3	3	3
70°	2	3	2	2	2	2	2	2	2
72.5°	1	2	2	2	2	2	2	2	2
75°	1	1	1	2	1	2	1	2	1
77.5°	1	1	1	1	1	1	1	1	1
80°	0	1	1	1	1	1	1	1	0
82.5°	1	0	1	1	1	1	1	1	0
85°	0	1	1	1	1	1	0	1	0
87.5°	0	0	0	0	0	0	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)