

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: 104P164

Luminaire Tested: **2P2GX-332S38I-2BC-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P164
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-332S38I-2BC-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a
a 2" deep 24 cell semi-specular low iridescent
parabolic louver.
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

Summary

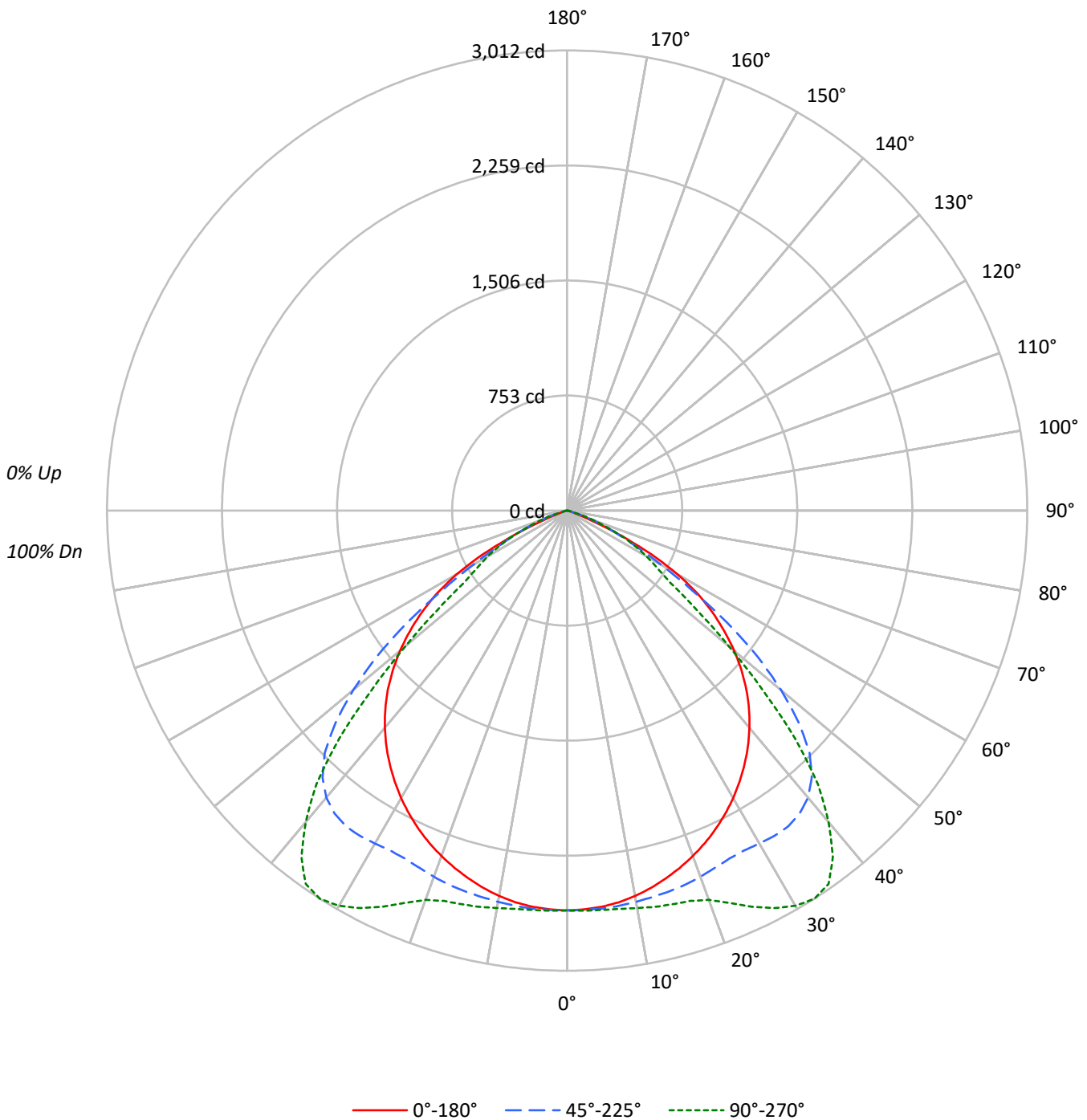
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6766.4 lumens
Efficiency: 77.8%
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.61 / 1.52
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 90.3
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	50	30	10	0	
RCR																						
0	93	93	93	93	90	90	90	90	86	86	86	83	83	83	79	79	79	79	79	79	78	
1	86	83	81	78	84	82	79	77	79	77	75	76	74	73	73	72	70	70	70	70	69	
2	80	74	70	66	78	73	69	66	70	67	64	68	65	63	66	63	61	61	61	61	60	
3	74	66	61	57	72	65	60	56	63	59	55	61	57	54	59	56	53	53	53	53	52	
4	68	60	53	49	66	59	53	49	57	52	48	55	51	47	53	50	47	47	47	47	45	
5	63	54	47	43	61	53	47	42	51	46	42	50	45	41	48	44	41	41	41	41	39	
6	58	48	42	37	56	48	42	37	46	41	37	45	40	37	44	40	36	36	36	36	35	
7	54	44	38	33	52	43	37	33	42	37	33	41	36	33	40	36	32	32	32	32	31	
8	50	40	34	30	49	40	34	29	39	33	29	38	33	29	37	32	29	29	29	29	28	
9	47	37	31	27	46	36	31	27	35	30	26	35	30	26	34	29	26	26	26	26	25	
10	44	34	28	24	43	33	28	24	33	28	24	32	27	24	31	27	24	24	24	24	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4306	4306	4306
5°	4299	4319	4334
10°	4281	4344	4413
15°	4247	4397	4543
20°	4213	4467	4747
25°	4176	4563	5194
30°	4129	4780	5675
35°	4068	5068	5992
40°	3987	5267	5718
45°	3863	5220	4905
50°	3656	4677	3538
55°	3331	3661	2358
60°	2754	2333	1978
65°	1511	1437	1522
70°	361	765	876
75°	165	223	134
80°	114	123	104
85°	76	94	94



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	249.1	3.7	2.9	0°	2617	2617	2617	2617	2617	
10°-20°	730.2	10.8	8.4	5°	2603	2607	2615	2621	2624	247
20°-30°	1180.6	17.4	13.6	15°	2493	2517	2581	2644	2667	704
30°-40°	1557.8	23.0	17.9	25°	2300	2363	2513	2743	2861	1060
40°-50°	1551.7	22.9	17.8	35°	2025	2148	2523	2855	2983	1266
50°-60°	1026.0	15.2	11.8	45°	1660	1865	2243	2181	2108	1275
60°-70°	412.7	6.1	4.7	55°	1161	1390	1276	896	822	1027
70°-80°	52.4	0.8	0.6	65°	388	487	369	376	391	407
80°-90°	5.9	0.1	0.1	75°	26	29	35	33	21	33
90°-100°	0.0	0.0	0.0	85°	4	5	5	5	5	5
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°	2159.9	31.9	24.8	165°	0	0	0	0	0	0
0°-40°	3717.7	54.9	42.7	175°	0	0	0	0	0	0
0°-60°	6295.4	93.0	72.4	180°	0	0	0	0	0	0
0°-90°	6766.4	100.0	77.8							
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°	6766.4	100.0	77.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2617	2617	2617	2617	2617
2.5°	2613	2614	2616	2619	2621
5°	2603	2607	2615	2621	2624
7.5°	2586	2593	2609	2623	2630
10°	2562	2573	2600	2629	2641
12.5°	2530	2547	2590	2638	2657
15°	2493	2517	2581	2644	2667
17.5°	2452	2484	2568	2644	2679
20°	2406	2447	2551	2653	2711
22.5°	2356	2406	2530	2686	2779
25°	2300	2363	2513	2743	2861
27.5°	2239	2316	2508	2801	2933
30°	2173	2265	2516	2844	2987
32.5°	2101	2209	2525	2866	3012
35°	2025	2148	2523	2855	2983
37.5°	1944	2083	2500	2787	2857
40°	1856	2016	2452	2636	2662
42.5°	1762	1944	2370	2427	2431
45°	1660	1865	2243	2181	2108
47.5°	1547	1776	2057	1856	1731
50°	1428	1670	1827	1498	1382
52.5°	1297	1544	1572	1172	1071
55°	1161	1390	1276	896	822
57.5°	1012	1206	966	684	696
60°	837	988	709	573	601
62.5°	624	739	509	477	496
65°	388	487	369	376	391
67.5°	192	256	267	277	264
70°	75	111	159	173	182
72.5°	38	44	78	103	103
75°	26	29	35	33	21
77.5°	18	20	19	18	15
80°	12	13	13	13	11
82.5°	8	8	9	9	7
85°	4	5	5	5	5
87.5°	2	2	2	2	2
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)