

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: 104P210

Luminaire Tested: **2PGX-332S36M/I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P210
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-332S36M/I-PAF
Description: 2 X 4 Recessed Troffer with a 4" deep
18 cell specular low iridescent
parabolic louver.
Light Source: Three-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6588.9 lumens
Efficiency: 77.1%
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.6 / 1.51
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

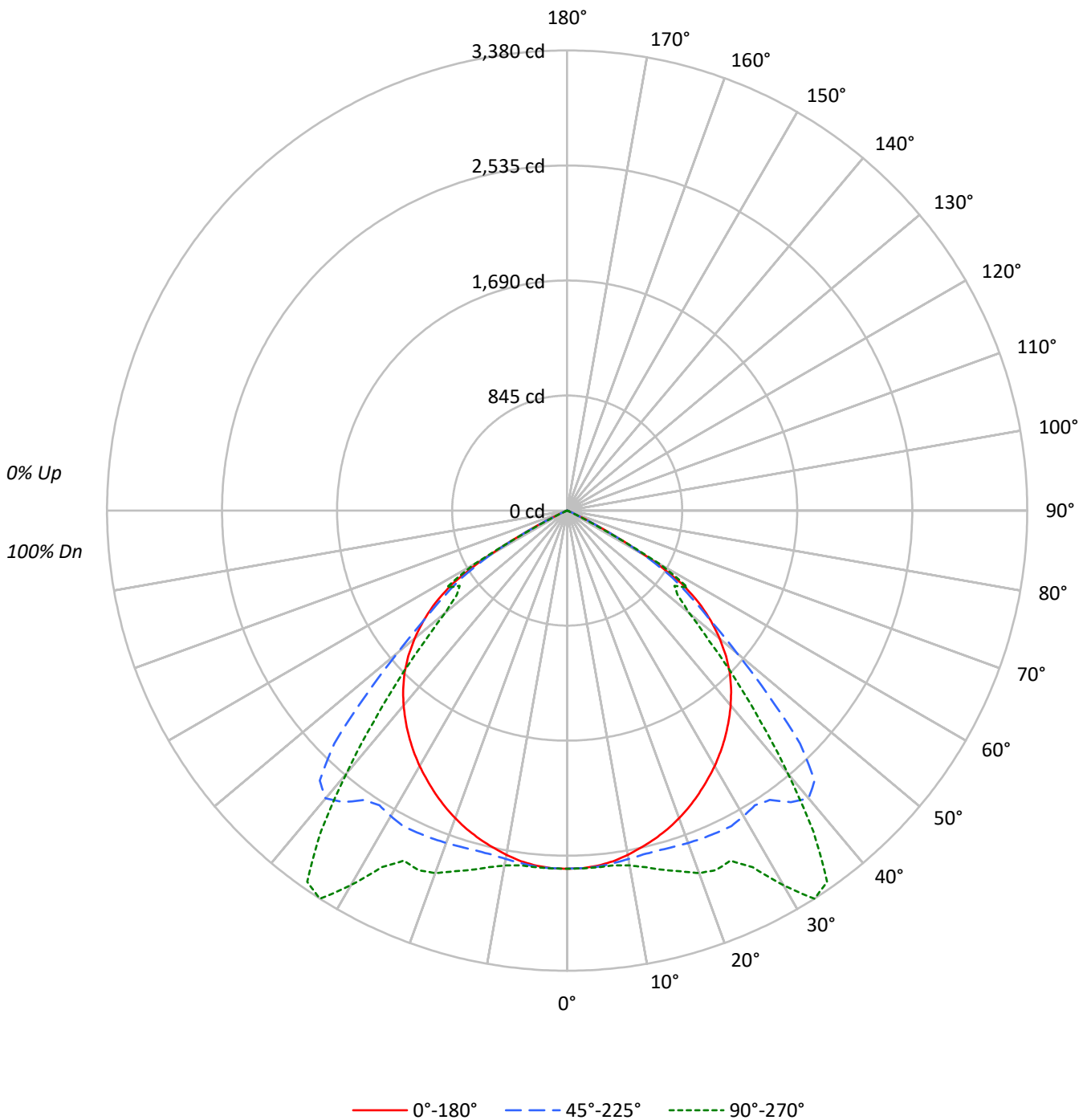
Input Watts (W): 91.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	92	92	92	90	90	90	90	86	86	86		82	82	82		79	79	79	77
1	86	83	81	78	84	81	79	77	78	76	75		75	74	73		73	71	70	69
2	80	75	70	67	78	73	69	66	71	67	65		68	66	63		66	64	62	60
3	74	67	62	58	72	66	61	57	64	59	56		62	58	55		60	57	54	53
4	68	60	54	50	66	59	54	50	57	53	49		56	52	48		54	51	48	46
5	63	54	48	44	61	53	48	43	52	47	43		50	46	43		49	45	42	41
6	58	49	43	38	57	48	43	38	47	42	38		46	41	38		45	41	37	36
7	54	45	38	34	53	44	38	34	43	38	34		42	37	34		41	37	33	32
8	50	41	35	30	49	40	34	30	39	34	30		38	34	30		37	33	30	29
9	47	37	31	27	46	37	31	27	36	31	27		35	31	27		35	30	27	26
10	44	34	29	25	43	34	29	25	33	28	25		33	28	25		32	28	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4334	4334	4334
5°	4330	4342	4348
10°	4295	4347	4427
15°	4256	4410	4660
20°	4215	4556	4968
25°	4167	4743	5158
30°	4123	4930	6047
35°	4075	5220	6696
40°	4018	5937	5427
45°	3938	5639	4050
50°	3748	4163	2994
55°	3390	3192	2766
60°	2264	2152	2590
65°	394	324	117
70°	48	48	48
75°	32	32	32
80°	19	19	19
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	249.7	3.8	2.9	0°	2630	2630	2630	2630	2630	
10°-20°	737.0	11.2	8.6	5°	2618	2619	2625	2626	2629	248
20°-30°	1199.5	18.2	14.0	15°	2495	2510	2585	2688	2732	704
30°-40°	1644.0	25.0	19.2	25°	2292	2361	2609	2787	2837	1057
40°-50°	1529.5	23.2	17.9	35°	2026	2206	2595	3231	3329	1267
50°-60°	1033.5	15.7	12.1	45°	1690	2012	2420	1846	1738	1297
60°-70°	189.4	2.9	2.2	55°	1180	1580	1111	969	963	1022
70°-80°	5.8	0.1	0.1	65°	101	106	83	75	30	194
80°-90°	0.6	0.0	0.0	75°	5	5	5	5	5	6
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	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°	2186.2	33.2	25.6	165°	0	0	0	0	0	0
0°-40°	3830.1	58.1	44.8	175°	0	0	0	0	0	0
0°-60°	6393.0	97.0	74.8	180°	0	0	0	0	0	0
0°-90°	6588.9	100.0	77.1							
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°	6588.9	100.0	77.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2630	2630	2630	2630	2630
2.5°	2630	2628	2629	2629	2631
5°	2618	2619	2625	2626	2629
7.5°	2598	2602	2612	2621	2628
10°	2567	2576	2598	2628	2646
12.5°	2533	2544	2587	2651	2684
15°	2495	2510	2585	2688	2732
17.5°	2453	2474	2590	2722	2778
20°	2404	2437	2598	2757	2833
22.5°	2352	2399	2604	2793	2858
25°	2292	2361	2609	2787	2837
27.5°	2230	2323	2612	2774	2953
30°	2167	2286	2591	2930	3178
32.5°	2098	2248	2567	3130	3380
35°	2026	2206	2595	3231	3329
37.5°	1949	2162	2699	3095	2970
40°	1868	2112	2760	2678	2523
42.5°	1783	2064	2690	2233	2106
45°	1690	2012	2420	1846	1738
47.5°	1582	1962	1998	1515	1413
50°	1462	1895	1624	1237	1168
52.5°	1331	1789	1332	1053	1023
55°	1180	1580	1111	969	963
57.5°	997	1208	917	869	1049
60°	687	722	653	710	786
62.5°	329	314	320	354	259
65°	101	106	83	75	30
67.5°	19	26	18	17	15
70°	10	10	10	11	10
72.5°	7	7	7	7	7
75°	5	5	5	5	5
77.5°	3	4	4	4	3
80°	2	3	2	2	2
82.5°	1	2	1	1	1
85°	0	0	0	0	0
87.5°	0	0	0	0	0
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)