

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: ITL52910

Luminaire Tested: **2EP3GX-332S36I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL52910
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S36I-PAF
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED SEMI-
SPECULAR METAL PARABOLIC 18-CELL LOUVER.
Light Source: THREE 32-WATT T-8 F32T8/SPX35 LINEAR FLUORESCENTS.
Ballast/Driver: SYLVANIA QTP3X32T8/UNV ISN-SC

Summary

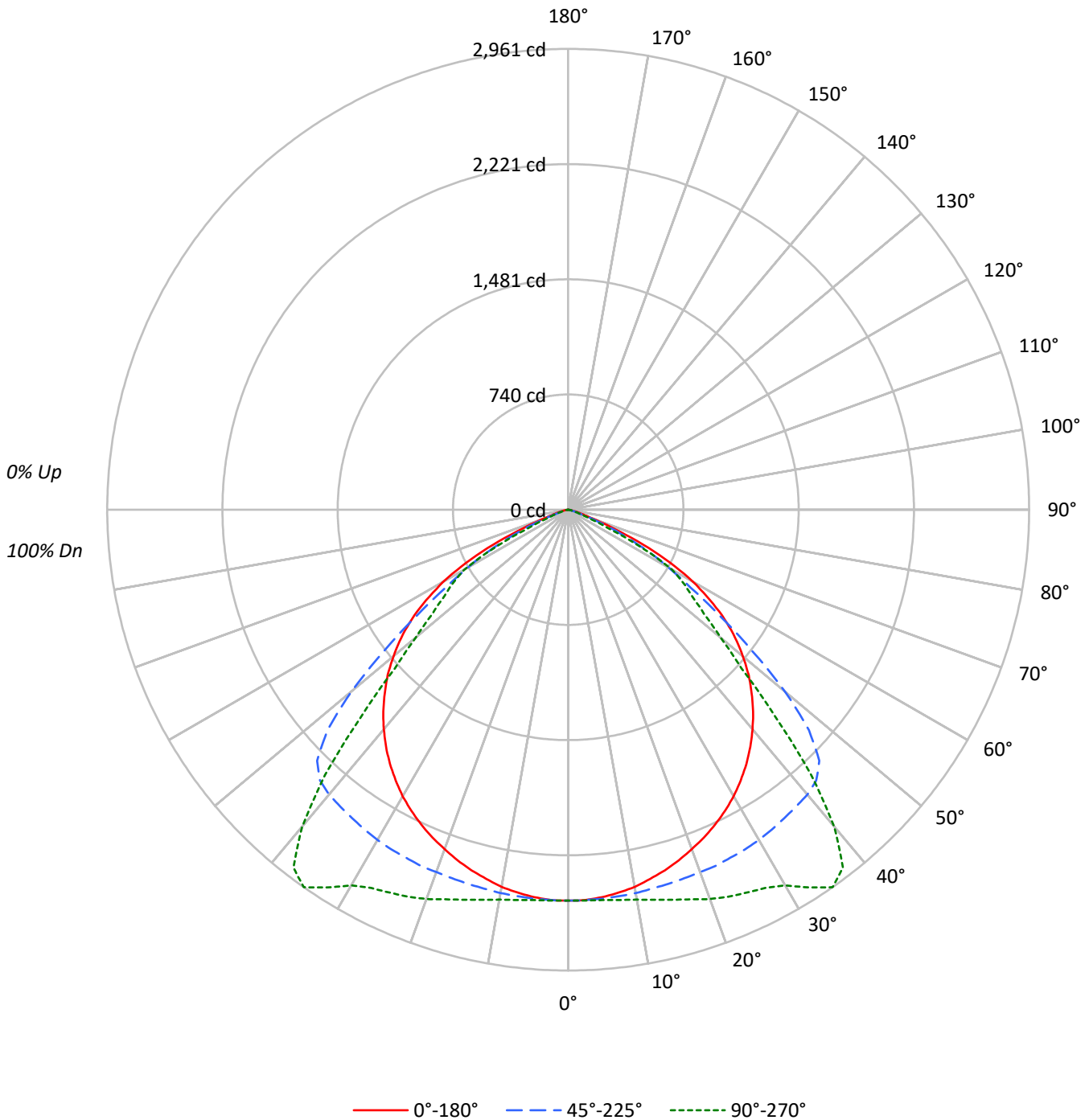
Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 6683.7 lumens
Efficiency: 75.5%
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.64 / 1.55
Luminous Opening: Rectangular (W 1.73' x L: 3.74' x H: 0')
CIE Type: Direct

Input Watts (W): 86
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	90	90	90	90	88	88	88	88	84	84	84		80	80	80		77	77	77	76
1	84	81	78	76	82	79	77	75	76	74	72		73	72	70		71	69	68	67
2	77	72	68	64	76	71	67	63	68	65	62		66	63	61		64	61	59	58
3	71	64	59	55	69	63	58	54	61	57	53		59	55	52		57	54	52	50
4	66	57	52	47	64	57	51	47	55	50	46		53	49	46		51	48	45	43
5	61	52	45	41	59	51	45	41	49	44	40		48	43	40		47	43	39	38
6	56	47	40	36	55	46	40	36	45	39	35		43	39	35		42	38	35	33
7	52	42	36	32	51	42	36	32	41	35	31		40	35	31		39	34	31	30
8	48	39	33	28	47	38	32	28	37	32	28		36	31	28		35	31	28	26
9	45	35	29	25	44	35	29	25	34	29	25		33	29	25		33	28	25	24
10	42	33	27	23	41	32	27	23	31	26	23		31	26	23		30	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4176	4176	4176
5°	4170	4187	4202
10°	4154	4221	4294
15°	4128	4282	4464
20°	4106	4383	4709
25°	4096	4525	4978
30°	4081	4703	5349
35°	4048	4909	6009
40°	3997	5186	5768
45°	3916	5362	4429
50°	3788	4696	3300
55°	3556	3440	2820
60°	3072	2483	2563
65°	2092	1565	1196
70°	807	578	433
75°	385	212	212
80°	211	115	115
85°	114	38	19



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	239.3	3.6	2.7	0°	2512	2512	2512	2512	2512	
10°-20°	706.3	10.6	8.0	5°	2499	2504	2509	2515	2518	237
20°-30°	1141.8	17.1	12.9	15°	2399	2423	2488	2562	2594	677
30°-40°	1522.8	22.8	17.2	25°	2233	2298	2467	2638	2714	1029
40°-50°	1521.9	22.8	17.2	35°	1995	2130	2419	2760	2961	1247
50°-60°	1055.5	15.8	11.9	45°	1666	1885	2281	2042	1884	1283
60°-70°	439.0	6.6	5.0	55°	1227	1443	1187	967	973	1084
70°-80°	52.1	0.8	0.6	65°	532	531	398	356	304	524
80°-90°	5.1	0.1	0.1	75°	60	47	33	33	33	75
90°-100°	0.0	0.0	0.0	85°	6	4	2	2	1	9
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°	2087.4	31.2	23.6							
0°-40°	3610.2	54.0	40.8							
0°-60°	6187.6	92.6	69.9							
0°-90°	6683.7	100.0	75.5							
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°	6683.7	100.0	75.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512	2512	2512	2512	2512
2.5°	2511	2512	2511	2511	2513
5°	2499	2504	2509	2515	2518
7.5°	2482	2491	2505	2520	2529
10°	2461	2472	2501	2531	2544
12.5°	2430	2450	2494	2543	2567
15°	2399	2423	2488	2562	2594
17.5°	2362	2396	2483	2582	2625
20°	2321	2365	2478	2603	2662
22.5°	2280	2333	2476	2625	2691
25°	2233	2298	2467	2638	2714
27.5°	2181	2261	2460	2648	2740
30°	2126	2222	2450	2661	2787
32.5°	2062	2178	2436	2699	2878
35°	1995	2130	2419	2760	2961
37.5°	1922	2078	2404	2789	2899
40°	1842	2019	2390	2672	2658
42.5°	1758	1956	2359	2404	2310
45°	1666	1885	2281	2042	1884
47.5°	1572	1801	2097	1658	1510
50°	1465	1706	1816	1341	1276
52.5°	1352	1591	1490	1132	1100
55°	1227	1443	1187	967	973
57.5°	1082	1261	933	834	878
60°	924	1042	747	711	771
62.5°	741	794	572	565	557
65°	532	531	398	356	304
67.5°	313	298	241	180	152
70°	166	148	119	94	89
72.5°	96	79	57	54	54
75°	60	47	33	33	33
77.5°	36	29	20	19	20
80°	22	16	12	12	12
82.5°	13	11	7	6	5
85°	6	4	2	2	1
87.5°	2	1	0	0	0
90°	0	0	0	0	0

(END OF REPORT)