

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: ITL49405

Luminaire Tested: **PGX2048-332S36I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49405
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX2048-332S36I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED
SEMI-SPECULAR METAL PARABOLIC 18-CELL LOUVER.
Light Source: THREE 32-WATT T-8 F32T8/TL735 LINEAR FLUORESCENTS.
Ballast/Driver: MOTOROLA M3-IN-T8-GP-D-120, L.O.B.F. = 85.8%

Summary

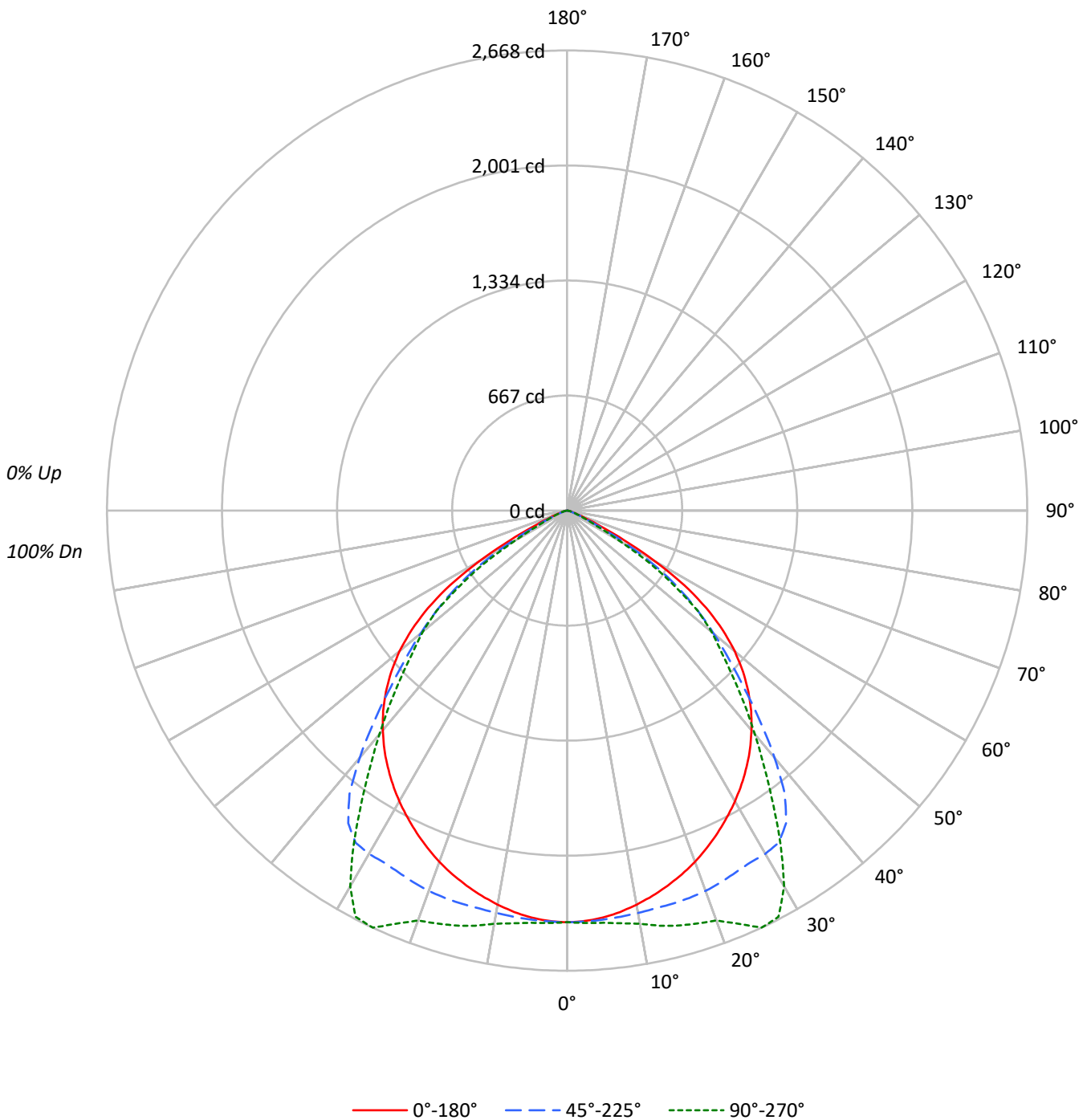
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5344.7 lumens
Efficiency: 63.6%
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.37 / 1.34
Luminous Opening: Rectangular (W 1.41' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	71	69	67	65	69	67	65	64	65	63	62		62	61	60		60	59	58	57
2	66	62	58	55	64	61	57	55	58	56	54		56	54	52		55	53	51	50
3	61	56	51	48	60	55	51	47	53	49	47		51	48	46		50	47	45	44
4	56	50	45	42	55	49	45	41	48	44	41		46	43	40		45	42	40	39
5	52	45	40	37	51	45	40	37	43	39	36		42	39	36		41	38	35	34
6	49	41	36	33	48	41	36	32	39	35	32		38	35	32		38	34	32	30
7	45	38	33	29	44	37	32	29	36	32	29		35	31	29		34	31	28	27
8	42	34	29	26	41	34	29	26	33	29	26		32	29	26		32	28	26	25
9	40	32	27	24	39	31	27	24	31	26	23		30	26	23		29	26	23	22
10	37	29	25	22	36	29	24	21	28	24	21		28	24	21		27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4859	4859	4859
5°	4840	4865	4902
10°	4795	4896	5027
15°	4743	4973	5249
20°	4694	5084	5478
25°	4633	5197	5992
30°	4574	5401	5913
35°	4507	5499	5176
40°	4419	4974	4496
45°	4278	4165	3900
50°	4015	3509	3458
55°	3492	2835	2676
60°	2402	1783	1400
65°	987	636	583
70°	381	304	327
75°	220	181	197
80°	176	117	94
85°	93	47	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	227.1	4.2	2.7	0°	2387	2387	2387	2387	2387	
10°-20°	669.3	12.5	8.0	5°	2369	2372	2381	2392	2399	225
20°-30°	1076.2	20.1	12.8	15°	2251	2279	2360	2453	2491	635
30°-40°	1275.1	23.9	15.2	25°	2063	2138	2314	2539	2668	951
40°-50°	1133.0	21.2	13.5	35°	1814	1945	2213	2105	2083	1134
50°-60°	747.4	14.0	8.9	45°	1486	1654	1447	1349	1355	1141
60°-70°	183.3	3.4	2.2	55°	984	987	799	763	754	859
70°-80°	29.5	0.6	0.4	65°	205	159	132	128	121	247
80°-90°	3.7	0.1	0.0	75°	28	26	23	25	25	34
90°-100°	0.0	0.0	0.0	85°	4	4	2	1	0	5
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°	1972.6	36.9	23.5							
0°-40°	3247.8	60.8	38.7							
0°-60°	5128.2	95.9	61.0							
0°-90°	5344.7	100.0	63.6							
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°	5344.7	100.0	63.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2387	2387	2387	2387	2387
2.5°	2382	2382	2385	2390	2393
5°	2369	2372	2381	2392	2399
7.5°	2348	2355	2375	2400	2413
10°	2320	2332	2369	2413	2432
12.5°	2288	2307	2362	2433	2465
15°	2251	2279	2360	2453	2491
17.5°	2212	2248	2355	2463	2510
20°	2167	2215	2347	2468	2529
22.5°	2117	2178	2332	2486	2592
25°	2063	2138	2314	2539	2668
27.5°	2006	2096	2300	2568	2655
30°	1946	2050	2298	2495	2516
32.5°	1882	2000	2283	2326	2305
35°	1814	1945	2213	2105	2083
37.5°	1742	1885	2073	1887	1878
40°	1663	1819	1872	1693	1692
42.5°	1579	1744	1654	1514	1520
45°	1486	1654	1447	1349	1355
47.5°	1383	1541	1270	1194	1211
50°	1268	1394	1108	1057	1092
52.5°	1137	1203	956	927	953
55°	984	987	799	763	754
57.5°	807	746	630	561	573
60°	590	504	438	385	344
62.5°	369	300	257	222	193
65°	205	159	132	128	121
67.5°	109	90	78	82	81
70°	64	55	51	55	55
72.5°	43	37	34	38	37
75°	28	26	23	25	25
77.5°	20	18	15	16	16
80°	15	13	10	9	8
82.5°	8	6	6	5	5
85°	4	4	2	1	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)