

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: ITL49402

Luminaire Tested: **2PGX-432S48I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49402
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-432S48I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR
FINISH, FABRICATED WHITE PAINTED METAL BALLAST COVER,
FABRICATED SEMI-SPECULAR METAL PARABOLIC 32-CELL LOUVER.
Light Source: FOUR 32-WATT T-8 F32T8/TL735 LINEAR FLUORESCENTS.
Ballast/Driver: MOTOROLA M4-IN-T8-GP-D-120, L.O.B.F. = 85.3%

Summary

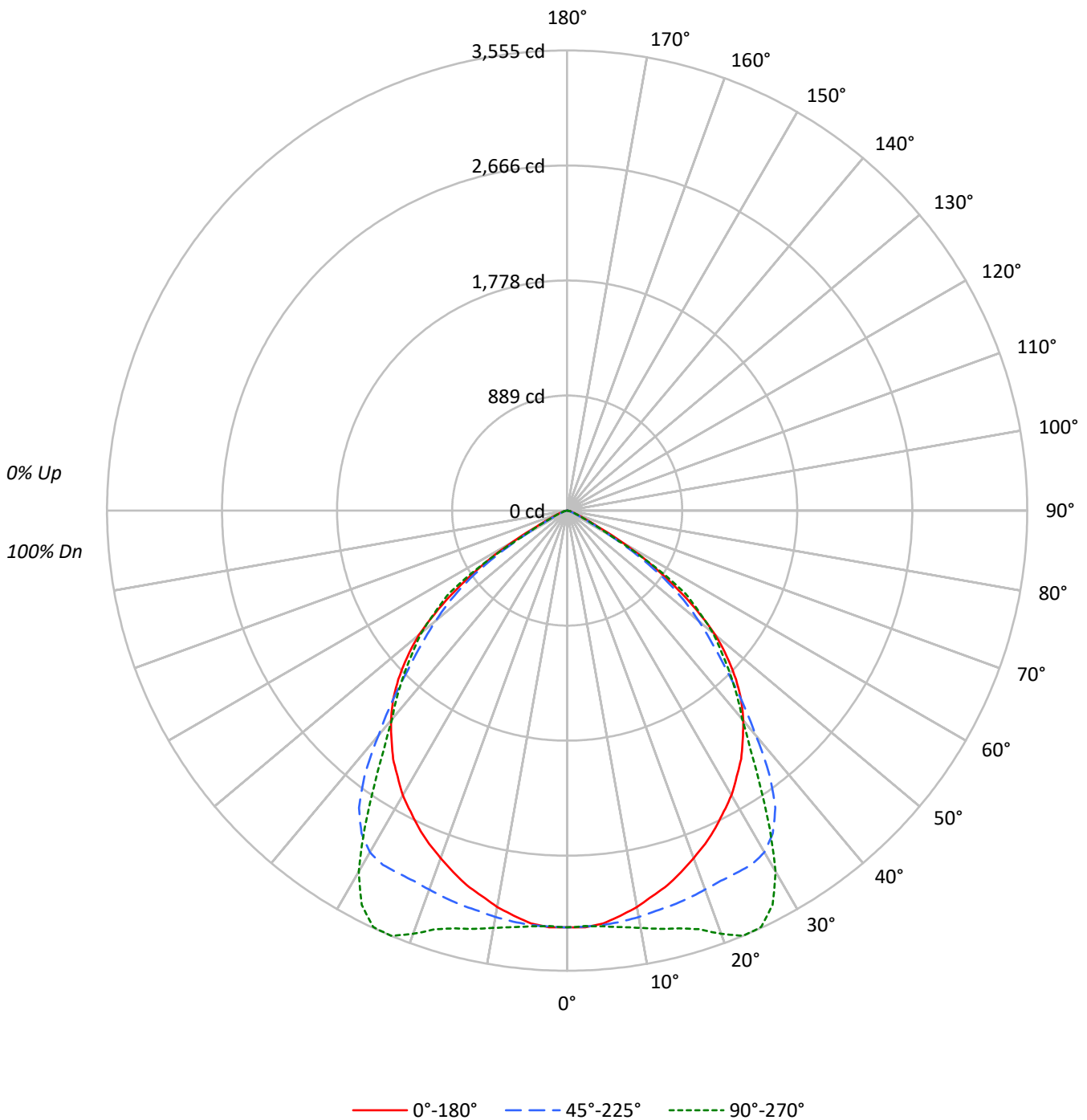
Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 6722.0 lumens
Efficiency: 60.0%
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.33 / 1.29
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 111.5
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	71	71	71	71	70	70	70	70	67	67	67		64	64	64		61	61	61	60
1	67	65	63	61	66	64	62	60	61	60	59		59	58	57		57	56	55	54
2	62	59	55	53	61	58	55	52	56	53	51		54	52	50		52	50	49	48
3	58	53	49	46	57	52	48	45	50	47	45		49	46	44		47	45	43	42
4	54	48	43	40	52	47	43	40	46	42	39		44	41	39		43	41	38	37
5	50	43	39	35	49	43	38	35	42	38	35		40	37	35		39	37	34	33
6	46	39	35	32	45	39	35	31	38	34	31		37	34	31		36	33	31	30
7	43	36	31	28	42	36	31	28	35	31	28		34	30	28		33	30	28	27
8	40	33	29	25	40	33	28	25	32	28	25		31	28	25		31	27	25	24
9	38	31	26	23	37	30	26	23	30	26	23		29	25	23		28	25	23	22
10	36	28	24	21	35	28	24	21	27	24	21		27	23	21		26	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5298	5298	5298
5°	5287	5307	5325
10°	5195	5327	5469
15°	5105	5373	5691
20°	5003	5456	6094
25°	4917	5610	6443
30°	4824	5791	6118
35°	4706	5632	5221
40°	4547	4874	4519
45°	4293	4049	4135
50°	3827	3397	3763
55°	2883	2631	3193
60°	1636	1237	1270
65°	576	432	498
70°	318	241	279
75°	210	159	172
80°	133	104	95
85°	76	57	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	306.0	4.6	2.7	0°	3220	3220	3220	3220	3220	
10°-20°	895.9	13.3	8.0	5°	3201	3206	3213	3225	3224	302
20°-30°	1426.9	21.2	12.7	15°	2997	3039	3154	3291	3341	844
30°-40°	1620.9	24.1	14.5	25°	2708	2819	3090	3412	3549	1247
40°-50°	1408.8	21.0	12.6	35°	2343	2534	2804	2625	2599	1461
50°-60°	859.1	12.8	7.7	45°	1845	2062	1740	1706	1777	1411
60°-70°	168.0	2.5	1.5	55°	1005	965	917	995	1113	890
70°-80°	31.9	0.5	0.3	65°	148	141	111	133	128	194
80°-90°	4.4	0.1	0.0	75°	33	29	25	28	27	37
90°-100°	0.0	0.0	0.0	85°	4	4	3	4	2	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°	2628.9	39.1	23.5							
0°-40°	4249.7	63.2	37.9							
0°-60°	6517.7	97.0	58.2							
0°-90°	6722.0	100.0	60.0							
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°	6722.0	100.0	60.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3220	3220	3220	3220	3220
2.5°	3222	3222	3217	3217	3213
5°	3201	3206	3213	3225	3224
7.5°	3157	3173	3203	3236	3245
10°	3109	3132	3188	3251	3273
12.5°	3049	3085	3168	3274	3310
15°	2997	3039	3154	3291	3341
17.5°	2928	2990	3137	3305	3390
20°	2857	2933	3116	3346	3480
22.5°	2786	2879	3097	3402	3555
25°	2708	2819	3090	3412	3549
27.5°	2621	2761	3085	3354	3435
30°	2539	2693	3048	3181	3220
32.5°	2438	2617	2956	2923	2912
35°	2343	2534	2804	2625	2599
37.5°	2229	2443	2566	2323	2326
40°	2117	2345	2269	2086	2104
42.5°	1992	2221	2002	1878	1943
45°	1845	2062	1740	1706	1777
47.5°	1677	1864	1519	1540	1617
50°	1495	1611	1327	1394	1470
52.5°	1257	1309	1134	1231	1282
55°	1005	965	917	995	1113
57.5°	748	675	647	754	782
60°	497	444	376	443	386
62.5°	266	255	193	225	216
65°	148	141	111	133	128
67.5°	95	87	74	87	87
70°	66	59	50	58	58
72.5°	45	41	35	40	39
75°	33	29	25	28	27
77.5°	23	20	17	19	19
80°	14	12	11	12	10
82.5°	8	8	6	6	6
85°	4	4	3	4	2
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)