

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: ITL49403

Luminaire Tested: **2PGX-432S49I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49403
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-432S49I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR
FINISH, FABRICATED WHITE PAINTED METAL BALLAST COVER,
FABRICATED SEMI-SPECULAR METAL PARABOLIC 36-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

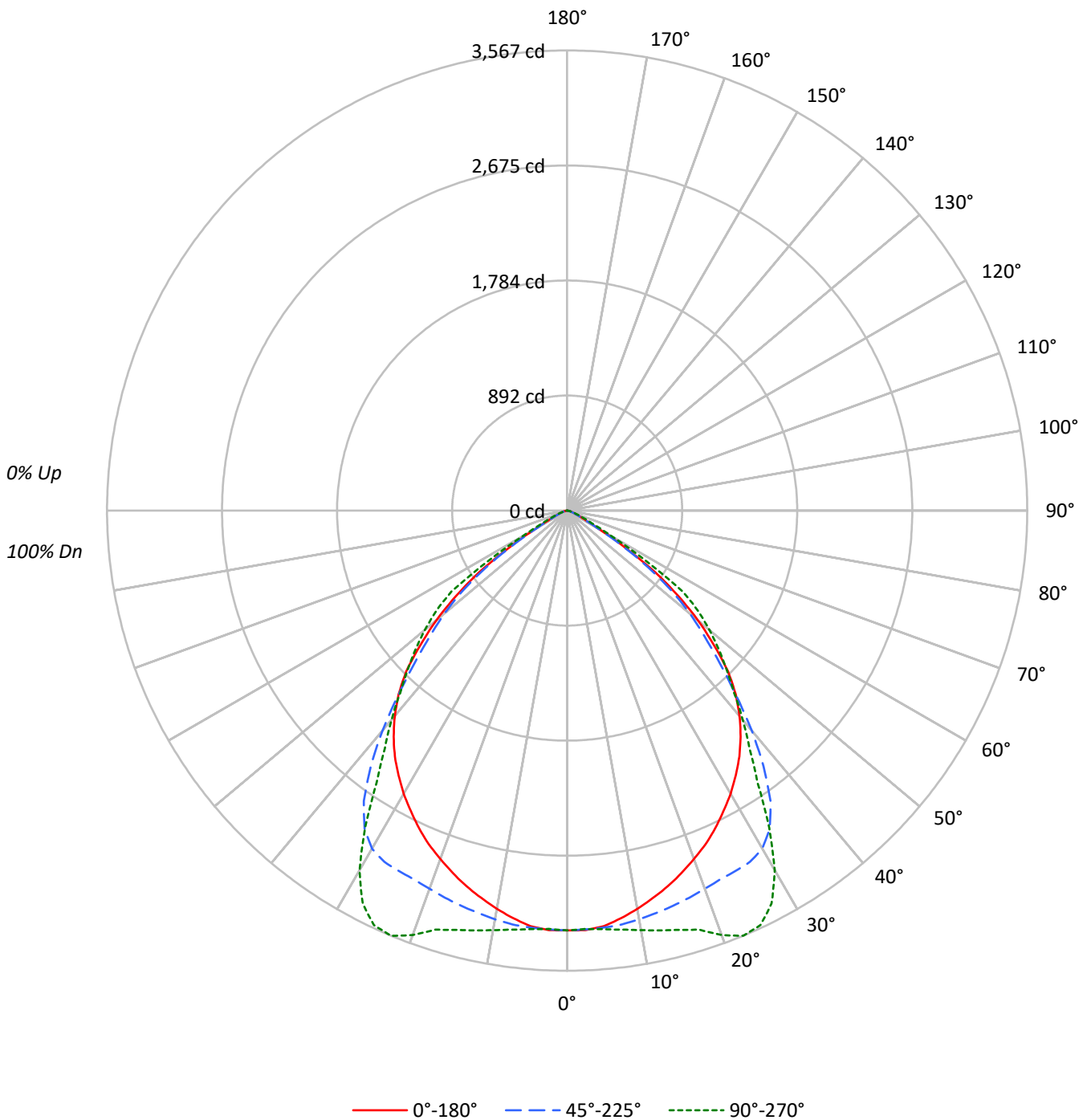
Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 6506.8 lumens
Efficiency: 58.1%
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.32 / 1.27
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 111.3
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										
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	50	30	10	0														
RCR																																						
0	69	69	69	69	68	68	68	68	65	65	65	62	62	62	59	59	59	58	58	58	58	58	58	58														
1	65	63	61	60	64	62	60	59	59	58	57	57	56	55	55	54	53	52	52	52	52	52	52	52														
2	61	57	54	51	59	56	53	51	54	52	50	52	50	49	50	49	48	46	46	46	46	46	46	46														
3	56	51	48	45	55	51	47	44	49	46	44	48	45	43	46	44	42	41	41	41	41	41	41	41														
4	52	47	43	39	51	46	42	39	45	41	39	43	40	38	42	40	38	37	37	37	37	37	37	37														
5	49	42	38	35	48	42	38	35	41	37	34	40	36	34	39	36	34	33	33	33	33	33	33	33														
6	45	39	34	31	44	38	34	31	37	33	31	36	33	30	35	33	30	29	29	29	29	29	29	29														
7	42	35	31	28	41	35	31	28	34	30	28	33	30	27	33	30	27	26	26	26	26	26	26	26														
8	40	33	28	25	39	32	28	25	31	28	25	31	27	25	30	27	25	24	24	24	24	24	24	24														
9	37	30	26	23	36	30	26	23	29	25	23	29	25	23	28	25	23	22	22	22	22	22	22	22														
10	35	28	24	21	34	28	24	21	27	23	21	27	23	21	26	23	21	20	20	20	20	20	20	20														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5354	5354	5354
5°	5342	5360	5380
10°	5238	5377	5517
15°	5136	5404	5731
20°	5033	5462	6132
25°	4933	5599	6436
30°	4815	5749	6116
35°	4676	5520	5168
40°	4464	4779	4552
45°	4105	3888	4072
50°	3392	3177	3681
55°	2381	2203	3138
60°	918	875	1313
65°	424	385	576
70°	265	231	322
75°	172	153	191
80°	123	114	133
85°	38	38	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	309.1	4.8	2.8	0°	3254	3254	3254	3254	3254	
10°-20°	901.5	13.9	8.0	5°	3234	3240	3245	3260	3257	305
20°-30°	1425.9	21.9	12.7	15°	3015	3060	3172	3314	3364	850
30°-40°	1602.8	24.6	14.3	25°	2717	2824	3084	3413	3545	1251
40°-50°	1351.3	20.8	12.1	35°	2328	2507	2748	2596	2573	1451
50°-60°	742.9	11.4	6.6	45°	1764	1955	1671	1653	1750	1336
60°-70°	139.0	2.1	1.2	55°	830	746	768	925	1094	716
70°-80°	30.6	0.5	0.3	65°	109	105	99	132	148	127
80°-90°	3.8	0.1	0.0	75°	27	25	24	28	30	31
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	4
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°	2636.5	40.5	23.5							
0°-40°	4239.4	65.2	37.9							
0°-60°	6333.5	97.3	56.5							
0°-90°	6506.8	100.0	58.1							
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°	6506.8	100.0	58.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3254	3254	3254	3254	3254
2.5°	3255	3257	3250	3252	3246
5°	3234	3240	3245	3260	3257
7.5°	3188	3208	3236	3266	3276
10°	3135	3161	3218	3284	3302
12.5°	3075	3113	3194	3300	3333
15°	3015	3060	3172	3314	3364
17.5°	2946	3004	3147	3322	3406
20°	2874	2945	3119	3364	3502
22.5°	2801	2885	3096	3412	3567
25°	2717	2824	3084	3413	3545
27.5°	2625	2752	3070	3329	3433
30°	2534	2682	3026	3159	3219
32.5°	2432	2595	2923	2904	2915
35°	2328	2507	2748	2596	2573
37.5°	2209	2407	2501	2294	2322
40°	2078	2289	2225	2053	2119
42.5°	1935	2148	1933	1840	1916
45°	1764	1955	1671	1653	1750
47.5°	1544	1708	1443	1489	1596
50°	1325	1390	1241	1331	1438
52.5°	1078	1046	1023	1165	1282
55°	830	746	768	925	1094
57.5°	524	501	489	664	718
60°	279	294	266	392	399
62.5°	162	169	154	210	230
65°	109	105	99	132	148
67.5°	77	72	68	88	99
70°	55	51	48	60	67
72.5°	38	36	34	41	45
75°	27	25	24	28	30
77.5°	19	17	16	19	20
80°	13	12	12	13	14
82.5°	6	6	5	5	6
85°	2	2	2	2	2
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)