

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: 104P241

Luminaire Tested: **2P2GX-432S511I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P241
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-432S511I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 2"
deep 55 cell semi-specular low iridescent parabolic louver.
Light Source: Four - F32T8/TL735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic L.O.B.F. = 89.7%

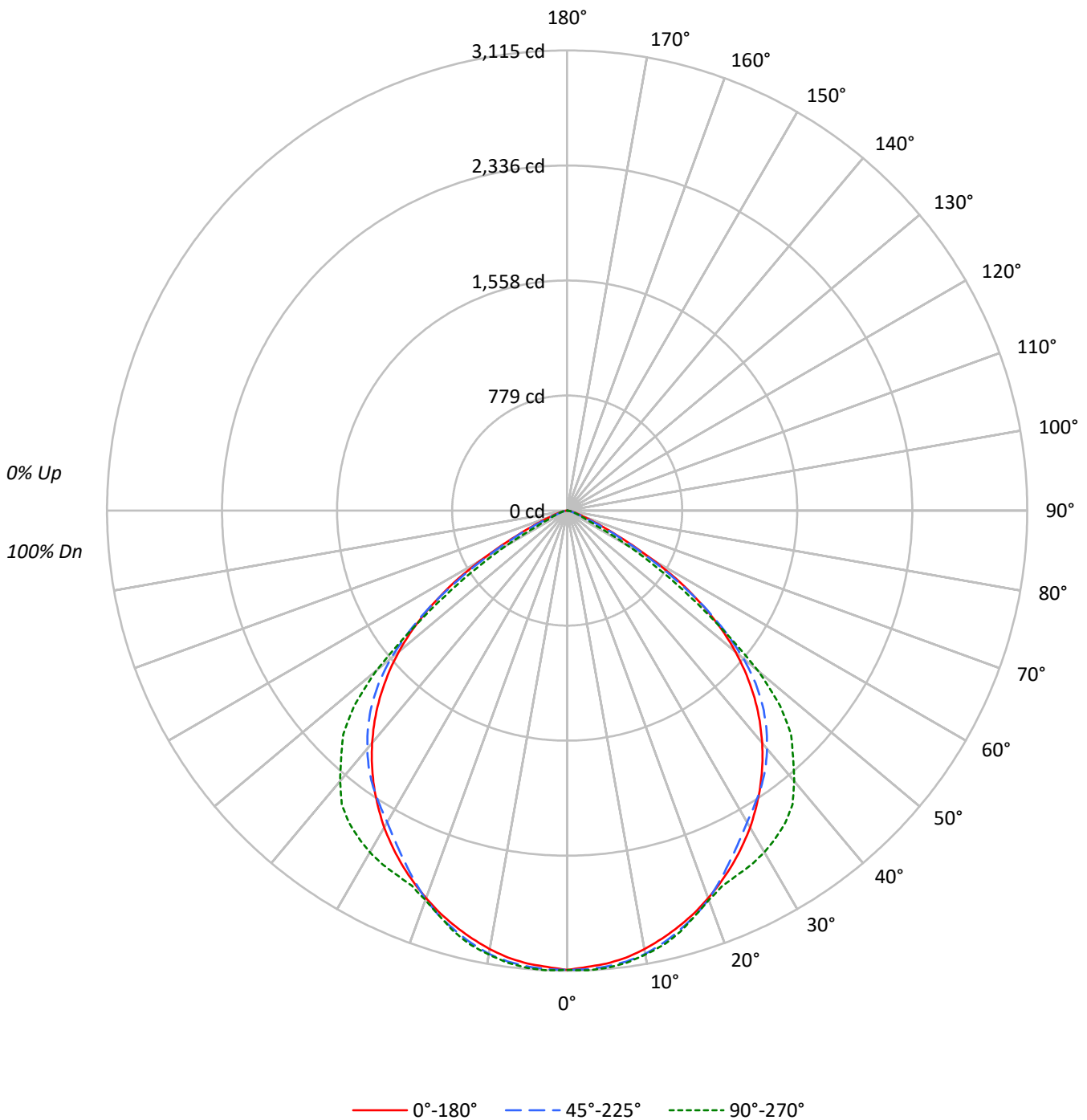
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 6559.4 lumens
Efficiency: 58.6%
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.29 / 1.32
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 108.2
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										
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	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60	60	60	60	60	60	60	59														
1	65	63	61	59	64	62	60	58	59	58	57	57	56	55	55	54	53	53	53	53	53	53	53	52														
2	60	57	53	51	59	56	53	50	54	51	49	52	50	48	50	48	47	47	47	47	47	47	47	46														
3	56	51	47	44	55	50	46	43	48	45	43	47	44	42	45	43	41	41	41	41	41	41	41	40														
4	52	46	41	38	50	45	41	38	44	40	37	42	39	37	41	38	36	36	36	36	36	36	36	35														
5	48	41	37	33	47	41	36	33	40	36	33	38	35	32	37	34	32	32	32	32	32	32	32	31														
6	44	37	33	29	43	37	33	29	36	32	29	35	32	29	34	31	29	29	29	29	29	29	29	28														
7	41	34	30	26	40	34	29	26	33	29	26	32	29	26	31	28	26	26	26	26	26	26	26	25														
8	39	31	27	24	38	31	27	24	30	26	23	30	26	23	29	26	23	23	23	23	23	23	23	22														
9	36	29	24	21	35	29	24	21	28	24	21	27	24	21	27	23	21	21	21	21	21	21	21	20														
10	34	27	22	19	33	26	22	19	26	22	19	25	22	19	25	22	19	19	19	19	19	19	19	18														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5116	5116	5116
5°	5084	5117	5134
10°	5038	5091	5099
15°	4967	5010	5030
20°	4889	4903	4912
25°	4804	4744	4944
30°	4706	4628	5075
35°	4580	4596	5177
40°	4412	4522	5136
45°	4175	4361	4987
50°	3812	3988	4321
55°	3219	3230	2903
60°	2238	2083	1560
65°	1114	997	541
70°	577	356	370
75°	350	229	261
80°	218	152	171
85°	132	94	94



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	293.8	4.5	2.6	0°	3109	3109	3109	3109	3109	
10°-20°	827.6	12.6	7.4	5°	3078	3089	3098	3103	3108	292
20°-30°	1224.3	18.7	10.9	15°	2916	2932	2941	2952	2953	822
30°-40°	1472.5	22.4	13.1	25°	2646	2645	2613	2659	2723	1218
40°-50°	1453.4	22.2	13.0	35°	2280	2259	2288	2461	2577	1424
50°-60°	961.9	14.7	8.6	45°	1794	1752	1874	2009	2143	1377
60°-70°	269.7	4.1	2.4	55°	1122	1096	1126	1032	1012	987
70°-80°	48.7	0.7	0.4	65°	286	298	256	145	139	325
80°-90°	7.6	0.1	0.1	75°	55	47	36	38	41	64
90°-100°	0.0	0.0	0.0	85°	7	6	5	5	5	9
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°	2345.6	35.8	20.9	165°	0	0	0	0	0	0
0°-40°	3818.2	58.2	34.1	175°	0	0	0	0	0	0
0°-60°	6233.4	95.0	55.7	180°	0	0	0	0	0	0
0°-90°	6559.4	100.0	58.6							
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°	6559.4	100.0	58.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3109	3109	3109	3109	3109
2.5°	3092	3102	3107	3111	3115
5°	3078	3089	3098	3103	3108
7.5°	3053	3065	3079	3084	3087
10°	3015	3031	3047	3050	3052
12.5°	2968	2986	2999	3007	3012
15°	2916	2932	2941	2952	2953
17.5°	2858	2872	2877	2874	2876
20°	2792	2804	2800	2793	2805
22.5°	2721	2727	2708	2718	2749
25°	2646	2645	2613	2659	2723
27.5°	2563	2561	2522	2621	2702
30°	2477	2468	2436	2580	2671
32.5°	2381	2369	2362	2525	2628
35°	2280	2259	2288	2461	2577
37.5°	2171	2141	2205	2386	2506
40°	2054	2017	2105	2290	2391
42.5°	1929	1889	1996	2156	2263
45°	1794	1752	1874	2009	2143
47.5°	1647	1607	1731	1846	1955
50°	1489	1454	1558	1626	1688
52.5°	1314	1285	1353	1347	1336
55°	1122	1096	1126	1032	1012
57.5°	911	893	876	759	734
60°	680	682	633	521	474
62.5°	456	478	424	305	229
65°	286	298	256	145	139
67.5°	183	177	135	99	104
70°	120	108	74	73	77
72.5°	82	71	51	53	57
75°	55	47	36	38	41
77.5°	36	31	25	26	28
80°	23	20	16	17	18
82.5°	14	12	10	10	11
85°	7	6	5	5	5
87.5°	2	2	2	2	2
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)