

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: 104P213A

Luminaire Tested: **2EP3GAX-SS-332S36M/I-2BC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P213A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GAX-SS-332S36M/I-2BC
Description: 2 X 4 Recessed Convertible Body Luminaire with a silver steel body and a 3" deep 18 cell specular low iridescent parabolic louver.
Light Source: Three - F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Two - Triad-Utrad B2321120RH Electronic

Summary

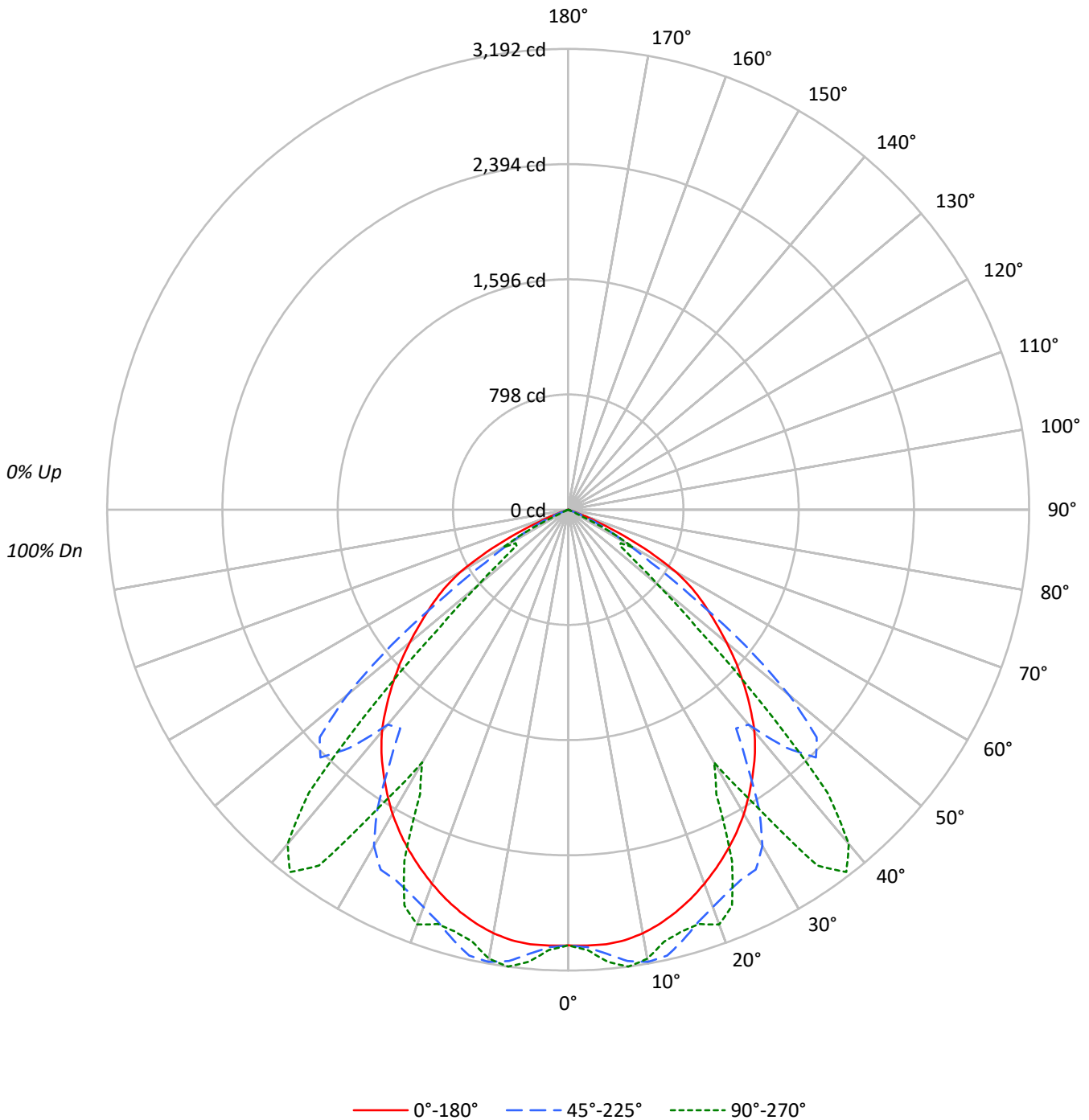
Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6641.5 lumens
Efficiency: 77.7%
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.58 / 1.49
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 99
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	92	92	92	92	90	90	90	90	86	86	86		83	83	83		79	79	79	78
1	87	84	81	79	85	82	80	78	79	77	75		76	75	73		73	72	71	70
2	80	75	71	68	79	74	70	67	71	68	65		69	66	64		67	65	63	61
3	74	68	63	58	73	67	62	58	64	60	57		62	59	56		61	58	55	54
4	69	61	55	51	67	60	55	51	58	54	50		57	53	49		55	52	49	47
5	64	55	49	45	62	54	49	45	53	48	44		51	47	44		50	46	43	42
6	59	50	44	40	58	49	44	39	48	43	39		47	42	39		46	42	39	37
7	55	46	40	35	54	45	39	35	44	39	35		43	38	35		42	38	35	33
8	52	42	36	32	50	41	36	32	40	35	32		40	35	31		39	34	31	30
9	48	39	33	29	47	38	33	29	37	32	29		37	32	28		36	32	28	27
10	45	36	30	26	44	35	30	26	35	30	26		34	29	26		33	29	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4965	4965	4965
5°	4991	5100	5191
10°	4977	5313	5276
15°	4914	5251	5152
20°	4827	5128	5354
25°	4731	5136	4872
30°	4622	5110	3839
35°	4479	4338	6044
40°	4310	4173	6493
45°	4014	5647	4372
50°	3665	5114	2094
55°	3310	2969	1251
60°	2830	1524	1711
65°	1612	821	241
70°	351	168	53
75°	51	44	32
80°	28	28	19
85°	19	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	296.0	4.5	3.5	0°	3018	3018	3018	3018	3018	
10°-20°	858.1	12.9	10.0	5°	3022	3043	3088	3130	3143	287
20°-30°	1261.4	19.0	14.8	15°	2885	3055	3083	3044	3025	813
30°-40°	1507.6	22.7	17.6	25°	2606	2803	2829	2858	2684	1200
40°-50°	1564.8	23.6	18.3	35°	2230	2348	2160	2526	3009	1394
50°-60°	862.5	13.0	10.1	45°	1725	1903	2427	2337	1879	1328
60°-70°	279.1	4.2	3.3	55°	1154	1299	1035	548	436	1028
70°-80°	11.2	0.2	0.1	65°	414	392	211	126	62	423
80°-90°	0.8	0.0	0.0	75°	8	8	7	6	5	18
90°-100°	0.0	0.0	0.0	85°	1	0	0	0	0	1
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°	2415.5	36.4	28.3	165°	0	0	0	0	0	0
0°-40°	3923.1	59.1	45.9	175°	0	0	0	0	0	0
0°-60°	6350.4	95.6	74.3	180°	0	0	0	0	0	0
0°-90°	6641.5	100.0	77.7							
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°	6641.5	100.0	77.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3018	3018	3018	3018	3018
2.5°	3022	3027	3033	3046	3052
5°	3022	3043	3088	3130	3143
7.5°	3008	3060	3153	3189	3192
10°	2979	3071	3180	3185	3158
12.5°	2937	3072	3164	3093	3065
15°	2885	3055	3083	3044	3025
17.5°	2825	3022	2994	3018	3009
20°	2757	2973	2929	3013	3058
22.5°	2683	2901	2872	3024	2966
25°	2606	2803	2829	2858	2684
27.5°	2523	2688	2811	2528	2222
30°	2433	2577	2690	2114	2021
32.5°	2333	2469	2461	2066	2451
35°	2230	2348	2160	2526	3009
37.5°	2124	2233	1909	2947	3163
40°	2007	2135	1943	3003	3023
42.5°	1867	2044	2237	2791	2658
45°	1725	1903	2427	2337	1879
47.5°	1581	1737	2333	1612	1202
50°	1432	1574	1998	1059	818
52.5°	1286	1430	1547	739	580
55°	1154	1299	1035	548	436
57.5°	1020	1188	676	434	432
60°	860	1000	463	401	520
62.5°	635	711	327	348	303
65°	414	392	211	126	62
67.5°	208	149	106	29	17
70°	73	52	35	13	11
72.5°	16	17	11	8	8
75°	8	8	7	6	5
77.5°	6	5	5	4	3
80°	3	3	3	2	2
82.5°	2	2	2	1	1
85°	1	0	0	0	0
87.5°	0	0	0	0	0
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)