

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: 220P201

Luminaire Tested: **2EP3GX-332S36I-2BC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P201
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S36I-2BC
Description: 2X4 EP3GX RECESSED LUMINAIRE WITH 18 CELL SILVER PARABOLIC LOUVER, AND TWO BALLAST COVERS
Light Source: THREE LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -

Summary

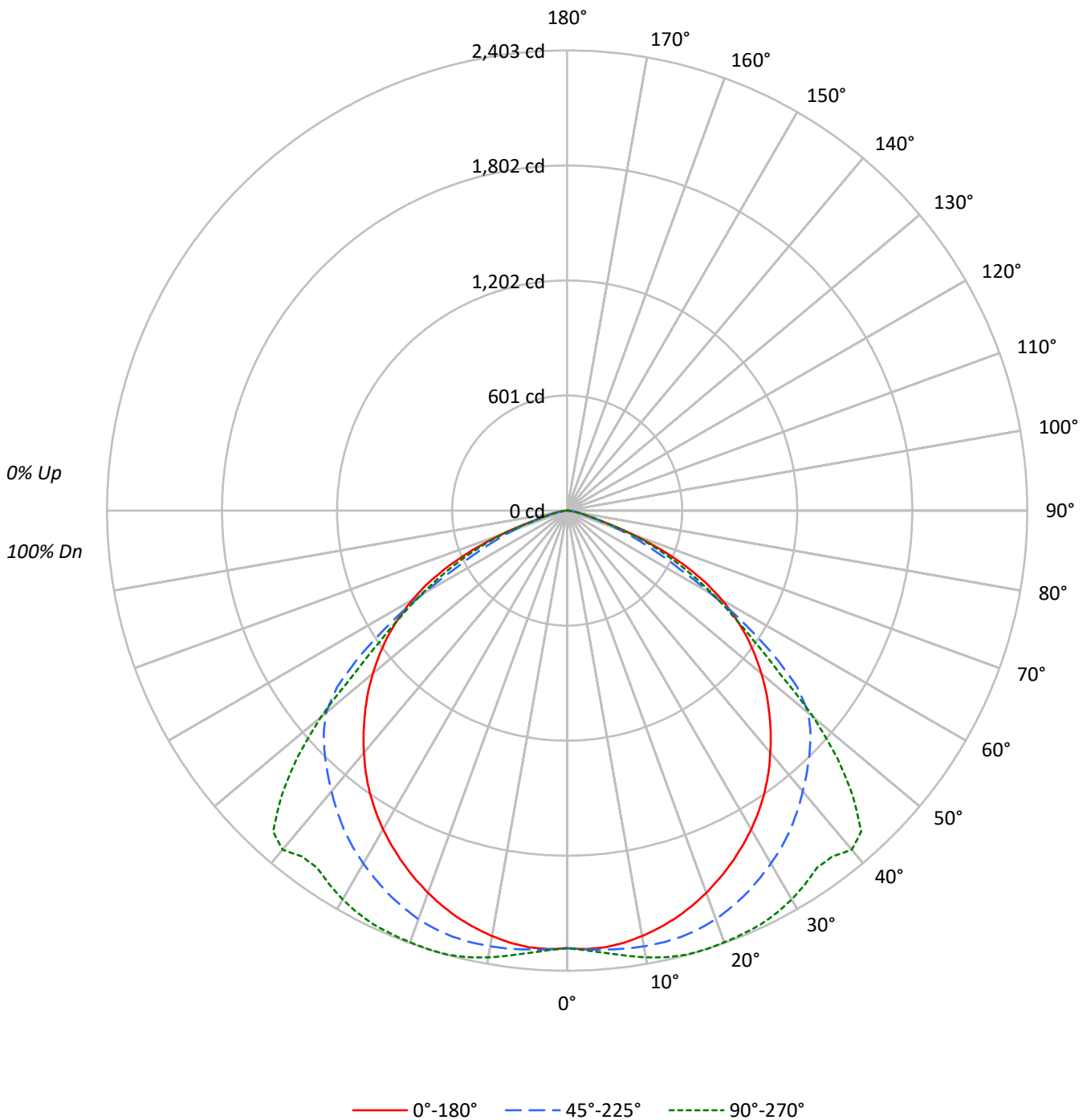
Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 6422.1 lumens
Efficiency: 69.1%
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.53 / 1.5
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 83
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	82	82	82	82	80	80	80	80	77	77	77	73	73	73	70	70	70	69																				
1	76	73	71	69	74	72	70	67	69	67	65	66	65	63	64	63	61	60																				
2	70	65	61	57	68	64	60	56	61	58	55	59	56	54	57	55	53	51																				
3	64	57	52	48	62	56	52	48	54	50	47	52	49	46	51	48	45	44																				
4	59	51	45	41	57	50	45	41	48	44	40	47	43	40	45	42	39	38																				
5	54	46	40	35	53	45	39	35	43	39	35	42	38	35	41	37	34	33																				
6	50	41	35	31	49	40	35	31	39	34	31	38	34	30	37	33	30	29																				
7	46	37	31	27	45	37	31	27	36	31	27	35	30	27	34	30	27	25																				
8	43	34	28	24	42	34	28	24	33	28	24	32	27	24	31	27	24	23																				
9	40	31	26	22	39	31	25	22	30	25	22	29	25	22	29	24	21	20																				
10	38	29	23	20	37	28	23	20	28	23	20	27	23	20	26	22	19	18																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3793	3793	3793
5°	3814	3834	3864
10°	3803	3895	3993
15°	3782	3960	4126
20°	3752	4012	4238
25°	3718	4046	4370
30°	3684	4079	4495
35°	3642	4120	4612
40°	3578	4148	5010
45°	3505	4204	4956
50°	3422	4246	4333
55°	3305	3812	3458
60°	3101	2885	2938
65°	2659	2042	2400
70°	1757	1393	1684
75°	782	763	776
80°	507	478	449
85°	343	324	248



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	220.0	3.4	2.4	0°	2285	2285	2285	2285	2285	
10°-20°	650.3	10.1	7.0	5°	2289	2291	2301	2312	2319	217
20°-30°	1019.0	15.9	11.0	15°	2201	2235	2304	2368	2401	621
30°-40°	1277.9	19.9	13.7	25°	2030	2106	2209	2314	2386	936
40°-50°	1382.9	21.5	14.9	35°	1797	1902	2033	2175	2276	1123
50°-60°	1098.7	17.1	11.8	45°	1493	1621	1791	2040	2111	1151
60°-70°	599.9	9.3	6.5	55°	1142	1261	1317	1158	1195	1017
70°-80°	152.2	2.4	1.6	65°	677	692	520	566	611	658
80°-90°	21.2	0.3	0.2	75°	122	114	119	123	121	163
90°-100°	0.0	0.0	0.0	85°	18	17	17	15	13	23
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°	1889.3	29.4	20.3							
0°-40°	3167.2	49.3	34.1							
0°-60°	5648.8	88.0	60.7							
0°-90°	6422.1	100.0	69.1							
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°	6422.1	100.0	69.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2285	2285	2285	2285	2285
2.5°	2292	2291	2294	2296	2298
5°	2289	2291	2301	2312	2319
7.5°	2276	2284	2308	2331	2344
10°	2256	2272	2311	2348	2369
12.5°	2231	2256	2310	2362	2389
15°	2201	2235	2304	2368	2401
17.5°	2165	2209	2291	2361	2403
20°	2124	2178	2271	2349	2399
22.5°	2079	2144	2241	2333	2394
25°	2030	2106	2209	2314	2386
27.5°	1978	2062	2170	2291	2369
30°	1922	2015	2128	2260	2345
32.5°	1862	1961	2084	2220	2313
35°	1797	1902	2033	2175	2276
37.5°	1727	1838	1975	2132	2276
40°	1651	1769	1914	2125	2312
42.5°	1573	1696	1853	2115	2273
45°	1493	1621	1791	2040	2111
47.5°	1411	1541	1724	1863	1913
50°	1325	1457	1644	1655	1678
52.5°	1235	1363	1515	1414	1402
55°	1142	1261	1317	1158	1195
57.5°	1041	1142	1094	975	1029
60°	934	1009	869	825	885
62.5°	815	858	667	691	745
65°	677	692	520	566	611
67.5°	526	507	397	446	483
70°	362	324	287	333	347
72.5°	210	182	191	208	199
75°	122	114	119	123	121
77.5°	80	75	76	77	76
80°	53	50	50	49	47
82.5°	33	32	31	29	27
85°	18	17	17	15	13
87.5°	7	7	7	6	5
90°	0	0	0	0	0

(END OF REPORT)