

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: 220P211

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P211
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S36I
Description: 2X4 EP3GX RECESSED LUMINAIRE WITH 18 CELL SILVER
PARABOLIC LOUVER
Light Source: THREE LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -

Summary

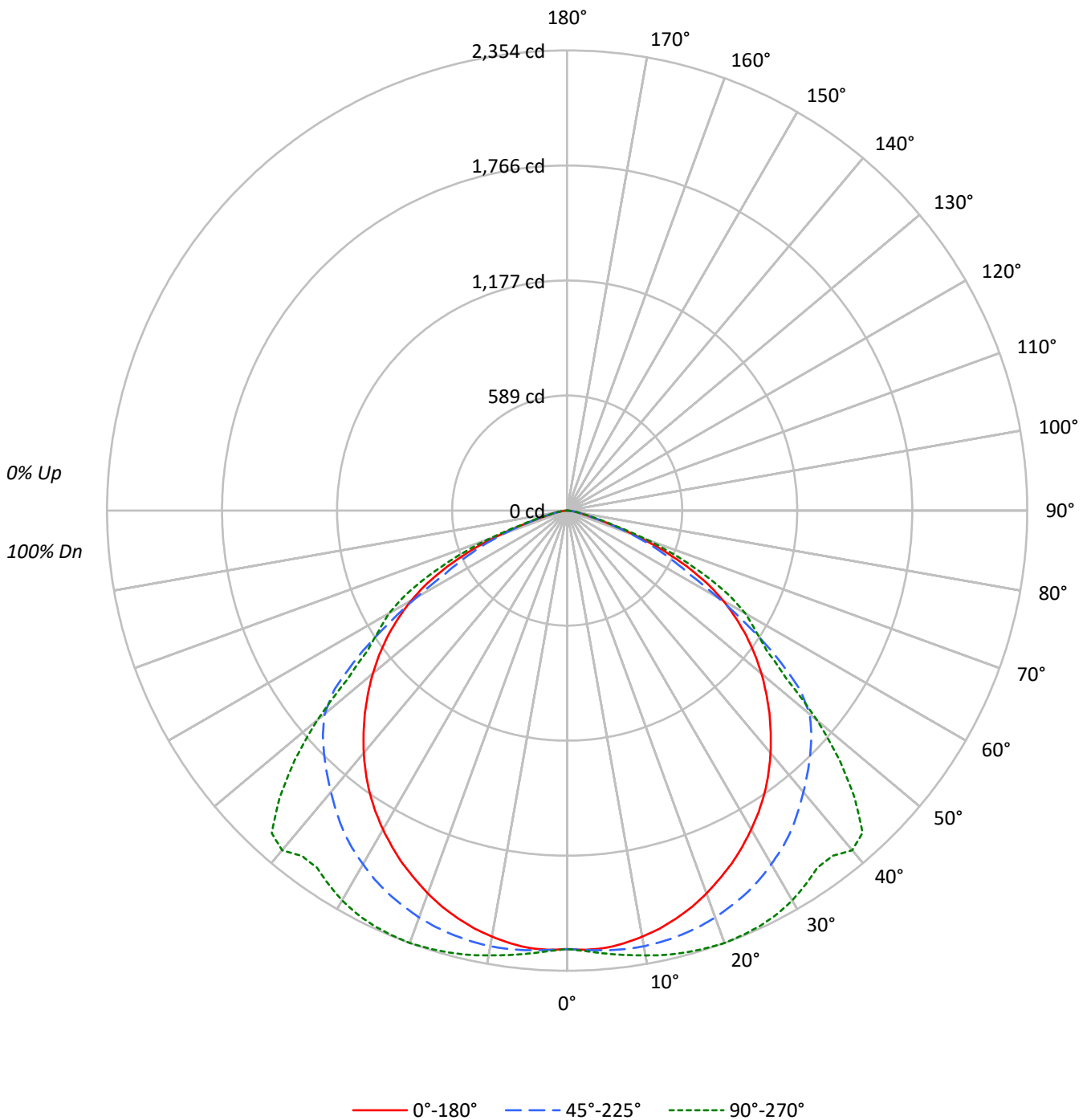
Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 6428.4 lumens
Efficiency: 69.1%
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.52 / 1.5
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3723	3723	3723
5°	3743	3763	3791
10°	3730	3814	3895
15°	3712	3863	4021
20°	3681	3913	4158
25°	3649	3962	4290
30°	3611	4004	4414
35°	3571	4049	4521
40°	3508	4074	4915
45°	3434	4129	4883
50°	3352	4181	4313
55°	3241	3791	3600
60°	3058	2958	3493
65°	2643	2290	3028
70°	1810	1645	2097
75°	821	847	949
80°	516	516	526
85°	362	343	286



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	215.7	3.4	2.3	0°	2243	2243	2243	2243	2243	
10°-20°	635.8	9.9	6.8	5°	2246	2249	2258	2268	2275	213
20°-30°	998.3	15.5	10.7	15°	2160	2191	2248	2308	2340	609
30°-40°	1252.6	19.5	13.5	25°	1992	2056	2163	2272	2342	918
40°-50°	1359.9	21.2	14.6	35°	1762	1857	1998	2134	2231	1101
50°-60°	1107.1	17.2	11.9	45°	1463	1593	1759	2009	2080	1128
60°-70°	662.0	10.3	7.1	55°	1120	1247	1310	1180	1244	998
70°-80°	174.1	2.7	1.9	65°	673	707	583	693	771	655
80°-90°	22.9	0.4	0.2	75°	128	125	132	145	148	170
90°-100°	0.0	0.0	0.0	85°	19	18	18	16	15	24
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°	1849.8	28.8	19.9							
0°-40°	3102.4	48.3	33.4							
0°-60°	5569.4	86.6	59.9							
0°-90°	6428.4	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°	6428.4	100.0	69.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2243	2243	2243	2243	2243
2.5°	2249	2249	2250	2253	2256
5°	2246	2249	2258	2268	2275
7.5°	2233	2242	2263	2283	2293
10°	2213	2230	2263	2294	2311
12.5°	2190	2212	2258	2303	2328
15°	2160	2191	2248	2308	2340
17.5°	2125	2163	2234	2306	2349
20°	2084	2131	2215	2301	2354
22.5°	2038	2095	2190	2290	2350
25°	1992	2056	2163	2272	2342
27.5°	1939	2011	2129	2250	2327
30°	1884	1965	2089	2219	2303
32.5°	1825	1913	2047	2179	2269
35°	1762	1857	1998	2134	2231
37.5°	1692	1797	1940	2091	2227
40°	1619	1733	1880	2084	2268
42.5°	1541	1664	1820	2078	2237
45°	1463	1593	1759	2009	2080
47.5°	1380	1515	1695	1838	1890
50°	1298	1434	1619	1641	1670
52.5°	1211	1346	1499	1413	1416
55°	1120	1247	1310	1180	1244
57.5°	1023	1134	1100	1032	1142
60°	921	1009	891	929	1052
62.5°	807	866	708	826	930
65°	673	707	583	693	771
67.5°	527	528	465	546	602
70°	373	349	339	399	432
72.5°	223	206	222	251	256
75°	128	125	132	145	148
77.5°	82	81	84	88	90
80°	54	54	54	55	55
82.5°	34	34	34	32	32
85°	19	18	18	16	15
87.5°	7	7	7	6	6
90°	0	0	0	0	0

(END OF REPORT)