

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: 220p223

Luminaire Tested: **2EP3GAX-328T5S36I-EBT2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220p223
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GAX-328T5S36I-EBT2
Description: 2X4 EP3GX RECESSED LUMINAIRE WITH 18 CELL SILVER PARABOLIC
LOUVER, TWO BALLASTS
Light Source: THREE LINEAR FLUORESCENT LAMPS, F28T5 28W - 2600 LUMENS EA
Ballast/Driver: -

Summary

Lumens per Lamp: 2600 (3 lamps)
Luminaire Lumens: 6042.1 lumens
Efficiency: 77.5%
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.48 / 1.5
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

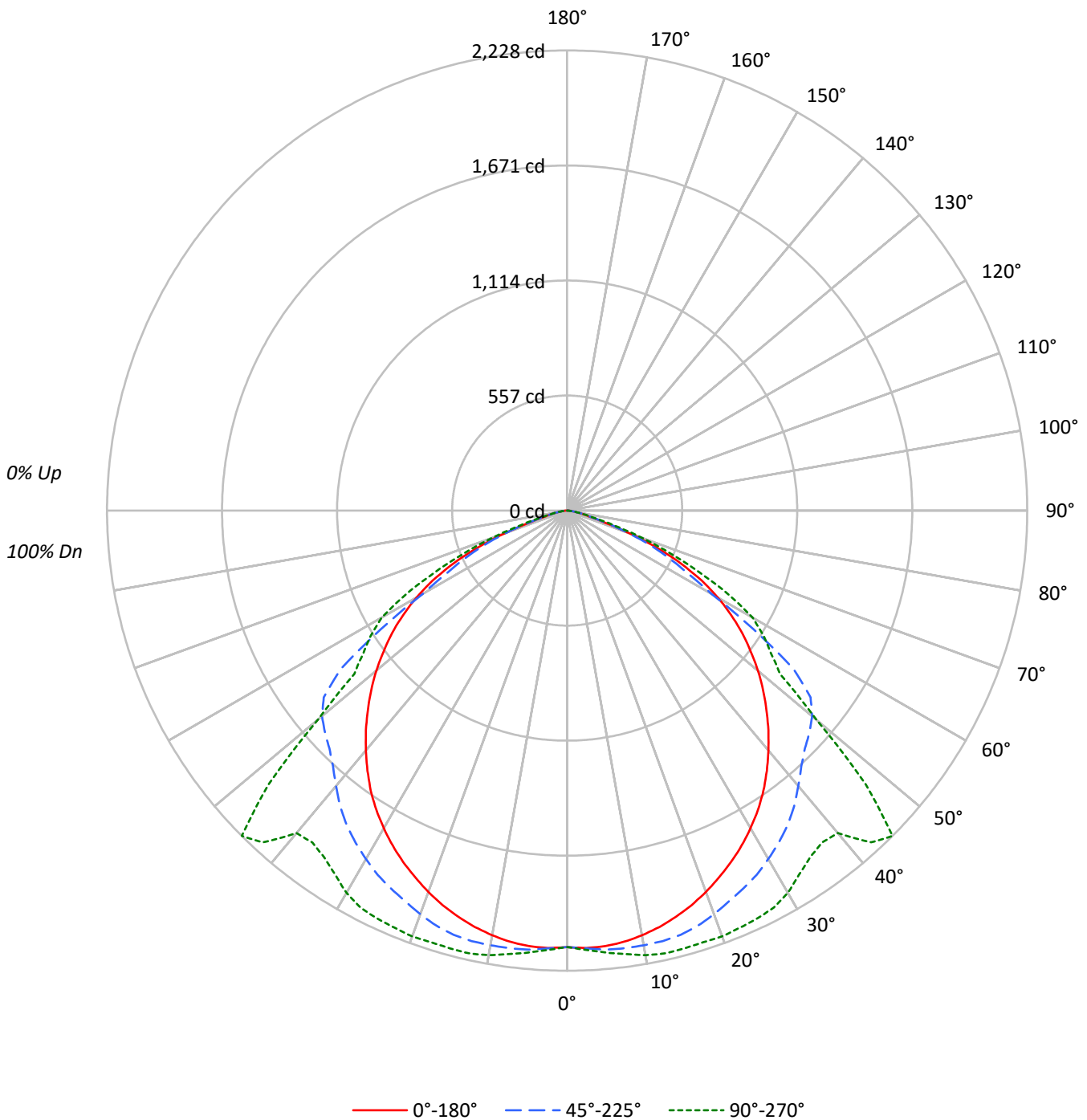
Input Watts (W): 98
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77	77	77	77	
1	85	82	79	77	83	80	78	75	77	75	73	74	72	71	71	70	69	67	67	67	67	
2	78	72	68	64	76	71	67	63	68	65	61	66	63	60	63	61	59	57	57	57	57	
3	72	64	58	53	70	63	57	53	61	56	52	58	54	51	56	53	50	49	49	49	49	
4	66	57	50	45	64	56	50	45	54	49	45	52	48	44	50	47	43	42	42	42	42	
5	60	51	44	39	59	50	44	39	48	43	39	47	42	38	45	41	38	36	36	36	36	
6	56	46	39	34	54	45	39	34	44	38	34	42	37	33	41	37	33	32	32	32	32	
7	52	41	35	30	50	41	34	30	40	34	30	38	33	30	37	33	29	28	28	28	28	
8	48	38	31	27	47	37	31	27	36	31	27	35	30	26	34	30	26	25	25	25	25	
9	45	35	28	24	44	34	28	24	33	28	24	32	27	24	32	27	24	22	22	22	22	
10	42	32	26	22	41	31	26	22	31	25	22	30	25	22	29	25	21	20	20	20	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3508	3508	3508
5°	3528	3556	3579
10°	3520	3602	3685
15°	3499	3654	3770
20°	3471	3674	3876
25°	3440	3698	3991
30°	3404	3734	4096
35°	3358	3769	4154
40°	3285	3773	4416
45°	3204	3822	5230
50°	3114	4000	4065
55°	2995	3875	3487
60°	2799	2679	3439
65°	2400	2137	2773
70°	1553	1490	1883
75°	699	750	859
80°	459	459	468
85°	324	305	267



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	203.7	3.4	2.6	0°	2113	2113	2113	2113	2113	
10°-20°	598.8	9.9	7.7	5°	2117	2123	2134	2143	2148	201
20°-30°	934.9	15.5	12.0	15°	2036	2068	2126	2170	2194	574
30°-40°	1162.7	19.2	14.9	25°	1878	1943	2019	2116	2179	865
40°-50°	1299.7	21.5	16.7	35°	1657	1739	1860	1968	2050	1035
50°-60°	1054.5	17.5	13.5	45°	1365	1476	1628	1998	2228	1053
60°-70°	613.3	10.2	7.9	55°	1035	1161	1339	1099	1205	922
70°-80°	154.2	2.6	2.0	65°	611	650	544	649	706	591
80°-90°	20.3	0.3	0.3	75°	109	108	117	131	134	144
90°-100°	0.0	0.0	0.0	85°	17	17	16	15	14	21
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°	1737.4	28.8	22.3							
0°-40°	2900.2	48.0	37.2							
0°-60°	5254.3	87.0	67.4							
0°-90°	6042.1	100.0	77.5							
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°	6042.1	100.0	77.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2113	2113	2113	2113	2113
2.5°	2120	2119	2122	2127	2129
5°	2117	2123	2134	2143	2148
7.5°	2106	2120	2137	2155	2166
10°	2088	2108	2137	2169	2186
12.5°	2065	2091	2135	2176	2196
15°	2036	2068	2126	2170	2194
17.5°	2003	2042	2107	2156	2191
20°	1965	2013	2080	2147	2194
22.5°	1922	1981	2048	2134	2186
25°	1878	1943	2019	2116	2179
27.5°	1829	1900	1988	2095	2167
30°	1776	1852	1948	2066	2137
32.5°	1719	1797	1907	2021	2090
35°	1657	1739	1860	1968	2050
37.5°	1588	1675	1805	1920	2026
40°	1516	1610	1741	1892	2038
42.5°	1442	1545	1678	1918	2179
45°	1365	1476	1628	1998	2228
47.5°	1287	1403	1591	1957	1962
50°	1206	1329	1549	1667	1574
52.5°	1121	1250	1485	1310	1299
55°	1035	1161	1339	1099	1205
57.5°	942	1055	1068	999	1127
60°	843	935	807	908	1036
62.5°	734	800	656	797	883
65°	611	650	544	649	706
67.5°	470	483	431	501	539
70°	320	310	307	361	388
72.5°	185	176	197	225	235
75°	109	108	117	131	134
77.5°	72	71	74	79	80
80°	48	48	48	49	49
82.5°	30	30	30	28	28
85°	17	17	16	15	14
87.5°	6	6	6	5	4
90°	0	0	0	0	0

(END OF REPORT)