

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: 220p206

Luminaire Tested: **2EP3GX-232S26I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220p206
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S26I
Description: 2X4 EP3GX RECESSED LUMINAIRE WITH 12 CELL SILVER
PARABOLIC LOUVER.
Light Source: [TWO LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -

Summary

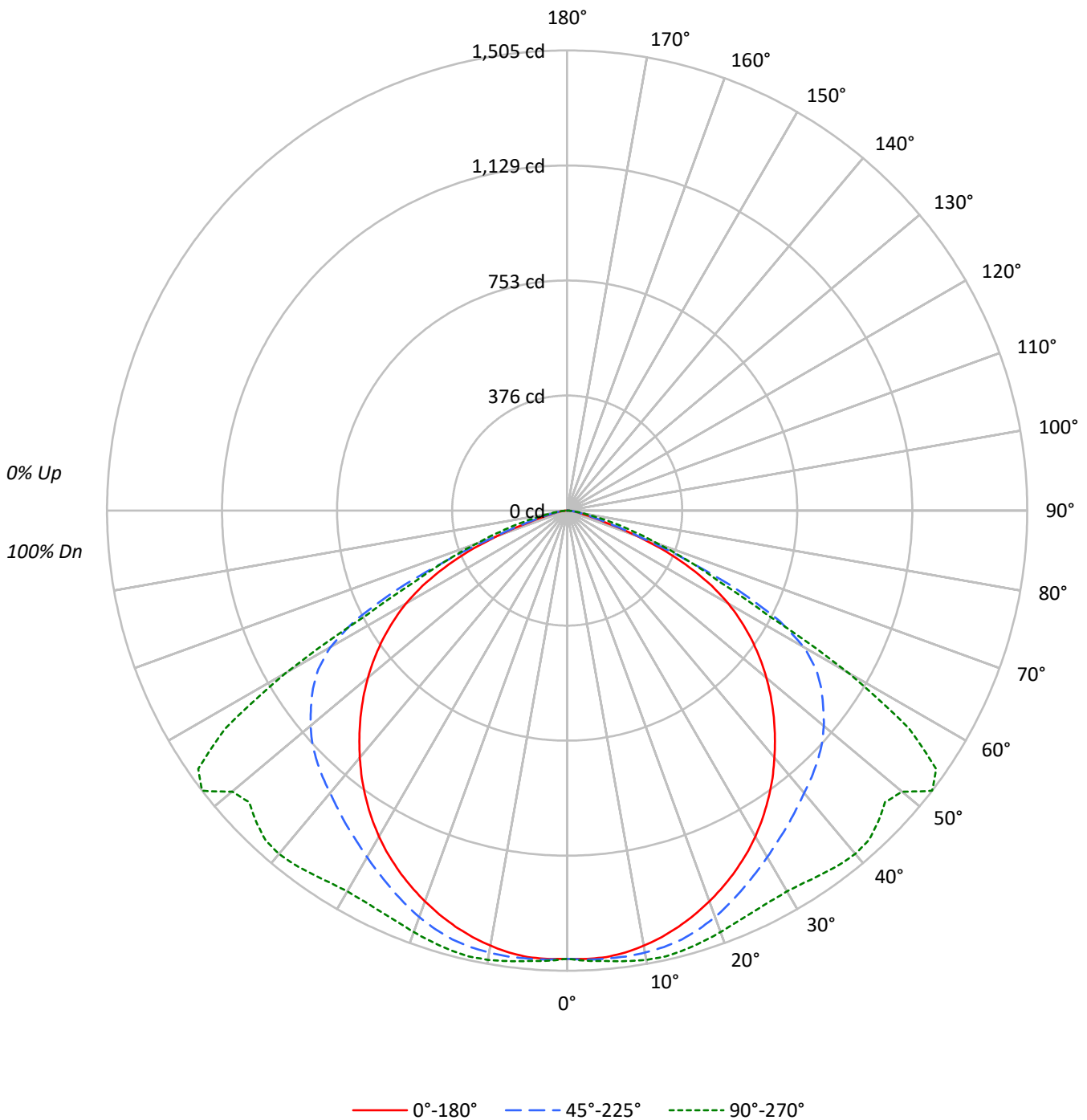
Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 4514.1 lumens
Efficiency: 72.8%
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.53 / 1.52
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 59
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	87	87	87	87	85	85	85	85	81	81	81		77	77	77		74	74	74	73
1	80	77	74	71	78	75	73	70	72	70	68		69	68	66		67	65	64	63
2	73	67	63	59	71	66	62	58	63	60	57		61	58	55		59	56	54	53
3	66	59	53	49	65	58	53	48	56	51	47		54	50	47		52	49	46	44
4	61	52	46	41	59	51	45	41	49	44	40		48	43	40		46	42	39	38
5	56	46	40	35	54	46	39	35	44	39	35		43	38	34		41	37	34	32
6	51	42	35	30	50	41	35	30	40	34	30		38	33	30		37	33	29	28
7	47	38	31	27	46	37	31	27	36	30	26		35	30	26		34	29	26	24
8	44	34	28	24	43	34	28	24	33	27	23		32	27	23		31	26	23	22
9	41	31	25	21	40	31	25	21	30	25	21		29	24	21		28	24	21	19
10	38	29	23	19	37	28	23	19	28	22	19		27	22	19		26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2434	2434	2434
5°	2443	2451	2464
10°	2436	2474	2515
15°	2421	2495	2555
20°	2402	2500	2591
25°	2383	2496	2648
30°	2360	2509	2756
35°	2326	2547	2942
40°	2286	2613	3177
45°	2244	2718	3378
50°	2198	2830	3693
55°	2133	2937	4263
60°	2022	2971	3536
65°	1748	2435	2149
70°	1175	1247	1534
75°	520	622	1020
80°	344	382	526
85°	229	267	305



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	140.3	3.1	2.3	0°	1466	1466	1466	1466	1466	
10°-20°	409.0	9.1	6.6	5°	1466	1467	1471	1474	1479	139
20°-30°	632.6	14.0	10.2	15°	1409	1420	1452	1476	1487	397
30°-40°	802.1	17.8	12.9	25°	1301	1327	1363	1415	1446	600
40°-50°	906.3	20.1	14.6	35°	1148	1184	1257	1376	1452	718
50°-60°	922.6	20.4	14.9	45°	956	1007	1158	1337	1439	737
60°-70°	548.6	12.2	8.8	55°	737	821	1015	1290	1473	657
70°-80°	134.6	3.0	2.2	65°	445	544	620	522	547	433
80°-90°	18.1	0.4	0.3	75°	81	87	97	135	159	108
90°-100°	0.0	0.0	0.0	85°	12	13	14	15	16	16
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°	1181.9	26.2	19.1							
0°-40°	1984.0	44.0	32.0							
0°-60°	3812.9	84.5	61.5							
0°-90°	4514.1	100.0	72.8							
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°	4514.1	100.0	72.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1466	1466	1466	1466	1466
2.5°	1468	1469	1470	1469	1474
5°	1466	1467	1471	1474	1479
7.5°	1458	1460	1471	1480	1486
10°	1445	1450	1468	1484	1492
12.5°	1429	1436	1462	1483	1493
15°	1409	1420	1452	1476	1487
17.5°	1386	1401	1435	1462	1478
20°	1360	1379	1415	1448	1467
22.5°	1332	1354	1390	1431	1455
25°	1301	1327	1363	1415	1446
27.5°	1268	1296	1336	1401	1440
30°	1231	1262	1309	1389	1438
32.5°	1191	1224	1282	1380	1443
35°	1148	1184	1257	1376	1452
37.5°	1103	1140	1231	1372	1461
40°	1055	1096	1206	1368	1466
42.5°	1006	1052	1183	1358	1461
45°	956	1007	1158	1337	1439
47.5°	904	961	1130	1301	1411
50°	851	916	1096	1271	1430
52.5°	795	869	1056	1288	1505
55°	737	821	1015	1290	1473
57.5°	675	769	965	1212	1326
60°	609	711	895	1028	1065
62.5°	534	639	785	757	736
65°	445	544	620	522	547
67.5°	350	424	422	384	426
70°	242	286	257	281	316
72.5°	140	154	158	199	228
75°	81	87	97	135	159
77.5°	53	57	61	84	96
80°	36	38	40	49	55
82.5°	22	23	25	28	31
85°	12	13	14	15	16
87.5°	5	5	6	6	5
90°	0	0	0	0	0

(END OF REPORT)