

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: 220p208

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220p208
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S26I-PAF
Description: 2X4 EP3GX RECESSED LUMINAIRE, PAF, 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: 4847.4 lumens
Efficiency: 78.2%
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.51 / 1.51
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

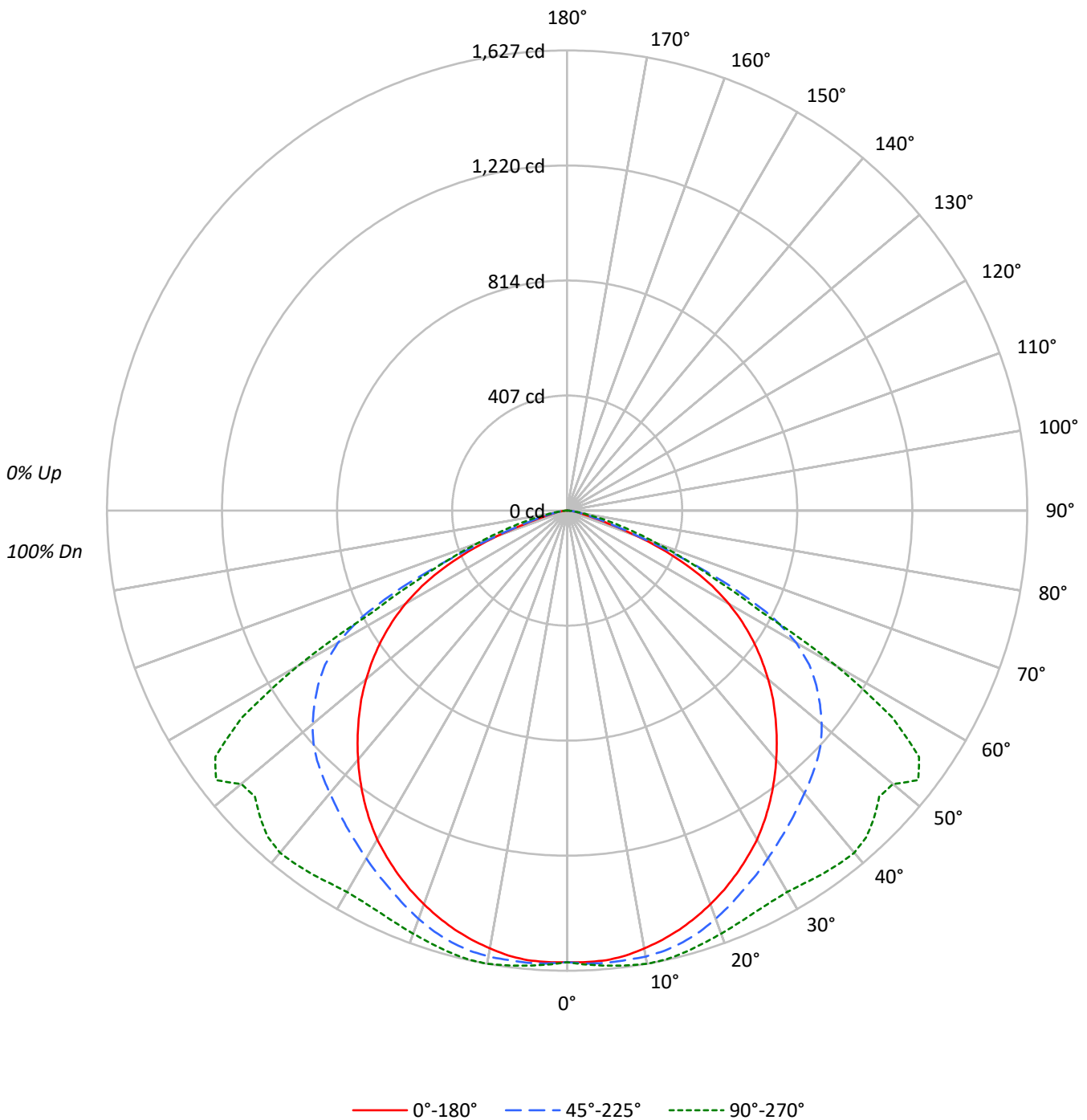
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	78
1	86	82	79	77	84	81	78	75	77	75	73	74	73	71	72	70	69	67
2	78	72	67	63	76	71	66	62	68	64	61	66	62	59	63	61	58	57
3	71	63	57	52	70	62	57	52	60	55	51	58	54	50	56	52	49	48
4	65	56	49	44	64	55	49	44	53	48	43	51	47	43	50	46	42	41
5	60	50	43	38	58	49	43	38	47	42	37	46	41	37	44	40	36	35
6	55	45	38	33	54	44	37	33	43	37	32	41	36	32	40	35	32	30
7	51	40	34	29	50	40	33	29	39	33	28	37	32	28	36	32	28	27
8	47	37	30	26	46	36	30	25	35	29	25	34	29	25	33	29	25	23
9	44	34	27	23	43	33	27	23	32	27	23	31	26	23	31	26	22	21
10	41	31	25	21	40	31	25	21	30	24	20	29	24	20	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2651	2651	2651
5°	2659	2674	2691
10°	2650	2699	2742
15°	2636	2715	2777
20°	2616	2713	2812
25°	2595	2707	2872
30°	2574	2722	2984
35°	2537	2760	3182
40°	2492	2828	3422
45°	2446	2934	3604
50°	2397	3034	3884
55°	2321	3111	4396
60°	2194	3107	3659
65°	1905	2545	2298
70°	1267	1330	1626
75°	552	667	1065
80°	363	401	554
85°	248	286	305



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	153.0	3.2	2.5	0°	1597	1597	1597	1597	1597	
10°-20°	445.1	9.2	7.2	5°	1596	1599	1605	1609	1615	152
20°-30°	687.1	14.2	11.1	15°	1534	1549	1580	1603	1616	433
30°-40°	869.3	17.9	14.0	25°	1417	1446	1478	1534	1568	653
40°-50°	975.7	20.1	15.7	35°	1252	1286	1362	1487	1570	783
50°-60°	974.7	20.1	15.7	45°	1042	1093	1250	1430	1535	804
60°-70°	580.4	12.0	9.4	55°	802	885	1075	1343	1519	715
70°-80°	142.9	2.9	2.3	65°	485	580	648	555	585	470
80°-90°	19.2	0.4	0.3	75°	86	92	104	141	166	116
90°-100°	0.0	0.0	0.0	85°	13	14	15	16	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°	1285.2	26.5	20.7							
0°-40°	2154.5	44.4	34.8							
0°-60°	4105.0	84.7	66.2							
0°-90°	4847.4	100.0	78.2							
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°	4847.4	100.0	78.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597	1597	1597	1597	1597
2.5°	1598	1601	1603	1603	1607
5°	1596	1599	1605	1609	1615
7.5°	1587	1592	1603	1614	1622
10°	1572	1581	1601	1618	1627
12.5°	1555	1566	1594	1615	1625
15°	1534	1549	1580	1603	1616
17.5°	1509	1527	1561	1588	1604
20°	1481	1504	1536	1570	1592
22.5°	1451	1476	1508	1553	1579
25°	1417	1446	1478	1534	1568
27.5°	1381	1411	1450	1518	1560
30°	1343	1373	1420	1504	1557
32.5°	1299	1331	1390	1493	1562
35°	1252	1286	1362	1487	1570
37.5°	1202	1238	1333	1482	1576
40°	1150	1190	1305	1475	1579
42.5°	1097	1142	1278	1459	1566
45°	1042	1093	1250	1430	1535
47.5°	987	1043	1217	1387	1497
50°	928	992	1175	1345	1504
52.5°	866	939	1127	1347	1565
55°	802	885	1075	1343	1519
57.5°	735	828	1015	1252	1365
60°	661	763	936	1062	1102
62.5°	579	683	822	792	771
65°	485	580	648	555	585
67.5°	378	450	444	410	452
70°	261	304	274	300	335
72.5°	151	165	169	212	242
75°	86	92	104	141	166
77.5°	57	60	65	88	100
80°	38	40	42	51	58
82.5°	23	25	27	30	33
85°	13	14	15	16	16
87.5°	5	5	6	6	6
90°	0	0	0	0	0

(END OF REPORT)