

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: 220p207

Luminaire Tested: **2EP3GX-232S28I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220p207
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S28I-PAF
Description: 2X4 EP3GX RECESSED LUMINAIRE, PAF, WITH 16 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: 4650.5 lumens
Efficiency: 75.0%
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.5 / 1.47
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

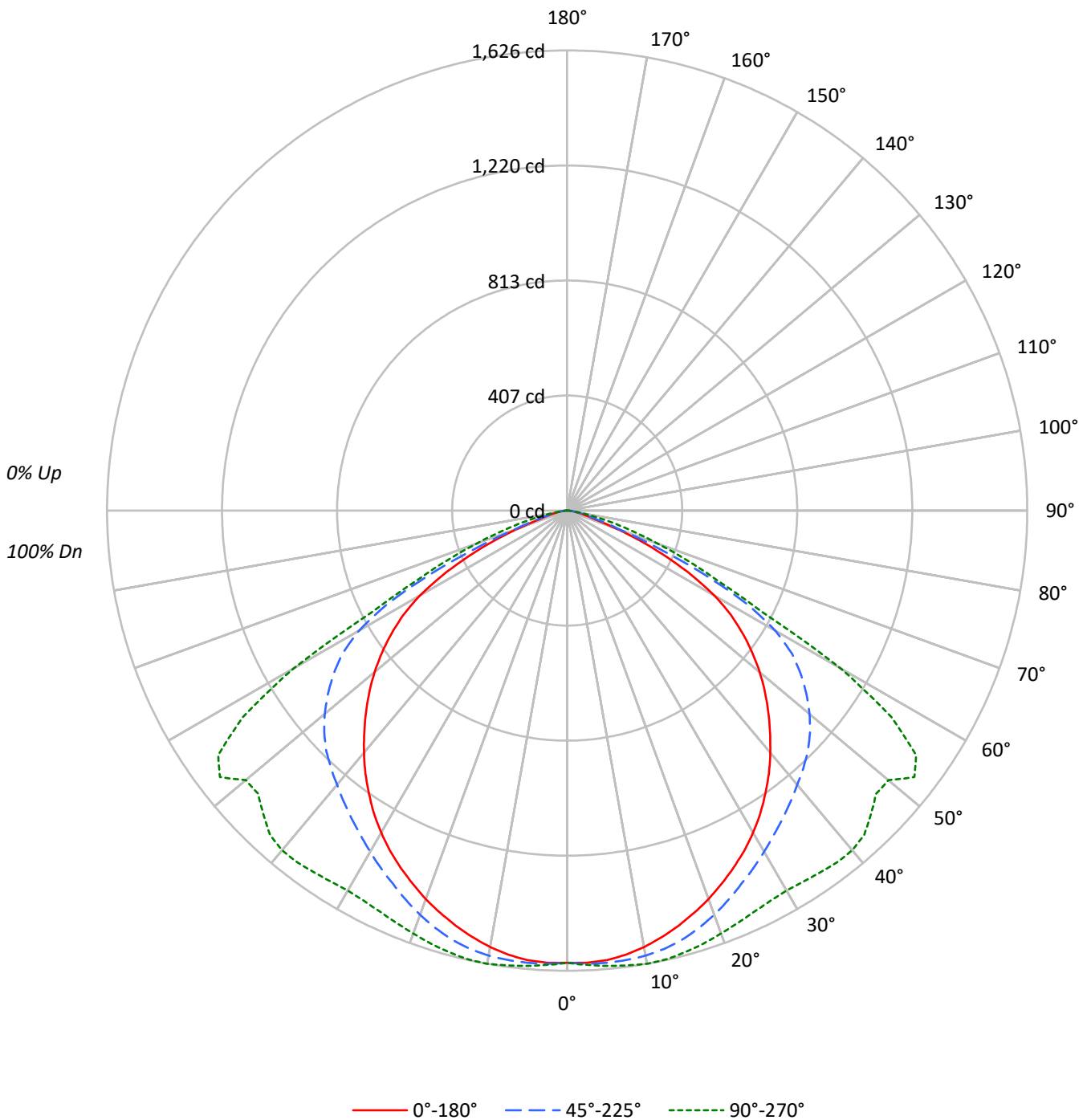
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	89	89	89	87	87	87	87	83	83	83	80	80	80	77	77	77	75
1	83	79	76	74	81	78	75	73	74	72	70	72	70	68	69	68	66	65
2	75	70	65	61	74	68	64	60	66	62	59	63	60	58	61	58	56	55
3	69	61	56	51	67	60	55	50	58	53	50	56	52	49	54	51	48	46
4	63	54	48	43	61	53	47	43	51	46	42	50	45	42	48	44	41	40
5	58	48	42	37	56	48	41	37	46	41	36	45	40	36	43	39	36	34
6	53	43	37	32	52	43	37	32	41	36	32	40	35	31	39	35	31	30
7	49	39	33	28	48	39	33	28	38	32	28	36	31	28	35	31	28	26
8	46	36	29	25	45	35	29	25	34	29	25	33	28	25	32	28	25	23
9	43	33	27	22	42	32	26	22	31	26	22	31	26	22	30	25	22	21
10	40	30	24	20	39	30	24	20	29	24	20	28	23	20	28	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2653	2653	2653
5°	2658	2673	2691
10°	2640	2692	2741
15°	2610	2698	2775
20°	2581	2685	2809
25°	2550	2667	2865
30°	2519	2668	2971
35°	2474	2691	3161
40°	2420	2741	3396
45°	2359	2824	3564
50°	2293	2887	3827
55°	2194	2917	4356
60°	1995	2825	3708
65°	1528	2109	2313
70°	859	995	1640
75°	462	545	1065
80°	335	363	535
85°	229	267	324



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	152.8	3.3	2.5	0°	1598	1598	1598	1598	1598	
10°-20°	442.5	9.5	7.1	5°	1595	1598	1604	1609	1615	151
20°-30°	678.5	14.6	10.9	15°	1519	1535	1570	1600	1615	428
30°-40°	851.9	18.3	13.7	25°	1392	1421	1456	1522	1564	642
40°-50°	945.7	20.3	15.3	35°	1221	1255	1328	1462	1560	764
50°-60°	929.0	20.0	15.0	45°	1005	1053	1203	1391	1518	775
60°-70°	512.3	11.0	8.3	55°	758	836	1008	1283	1505	673
70°-80°	119.9	2.6	1.9	65°	389	470	537	520	589	384
80°-90°	17.9	0.4	0.3	75°	72	78	85	123	166	88
90°-100°	0.0	0.0	0.0	85°	12	13	14	15	17	15
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°	1273.8	27.4	20.5							
0°-40°	2125.7	45.7	34.3							
0°-60°	4000.4	86.0	64.5							
0°-90°	4650.5	100.0	75.0							
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°	4650.5	100.0	75.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598	1598	1598	1598	1598
2.5°	1599	1601	1603	1603	1607
5°	1595	1598	1604	1609	1615
7.5°	1583	1589	1602	1614	1621
10°	1566	1575	1597	1616	1626
12.5°	1544	1556	1586	1612	1624
15°	1519	1535	1570	1600	1615
17.5°	1491	1511	1547	1583	1604
20°	1461	1483	1520	1562	1590
22.5°	1427	1453	1489	1544	1577
25°	1392	1421	1456	1522	1564
27.5°	1355	1384	1425	1503	1555
30°	1314	1345	1392	1485	1550
32.5°	1270	1301	1359	1471	1554
35°	1221	1255	1328	1462	1560
37.5°	1171	1206	1297	1453	1567
40°	1117	1155	1265	1442	1567
42.5°	1061	1104	1235	1423	1554
45°	1005	1053	1203	1391	1518
47.5°	948	1000	1164	1343	1481
50°	888	948	1118	1296	1482
52.5°	825	894	1066	1294	1547
55°	758	836	1008	1283	1505
57.5°	686	772	942	1192	1359
60°	601	697	851	1010	1117
62.5°	499	597	718	749	777
65°	389	470	537	520	589
67.5°	281	329	347	380	457
70°	177	204	205	273	338
72.5°	105	118	128	188	242
75°	72	78	85	123	166
77.5°	51	54	57	75	97
80°	35	36	38	46	56
82.5°	22	23	24	28	32
85°	12	13	14	15	17
87.5°	5	5	5	6	6
90°	0	0	0	0	0

(END OF REPORT)