

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: 114P114

Luminaire Tested: **EP3GX2048-232S26I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 114P114
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX2048-232S26I-PAF
Description: 20" X 48" Recessed Troffer with a 3" deep 12 cell semi-specular parabolic louver.
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.6

Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4308.6 lumens
Efficiency: 75.6%
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.82 / 1.6
Luminous Opening: Rectangular (W 1.4' x L: 3.74' x H: 0')
CIE Type: Direct

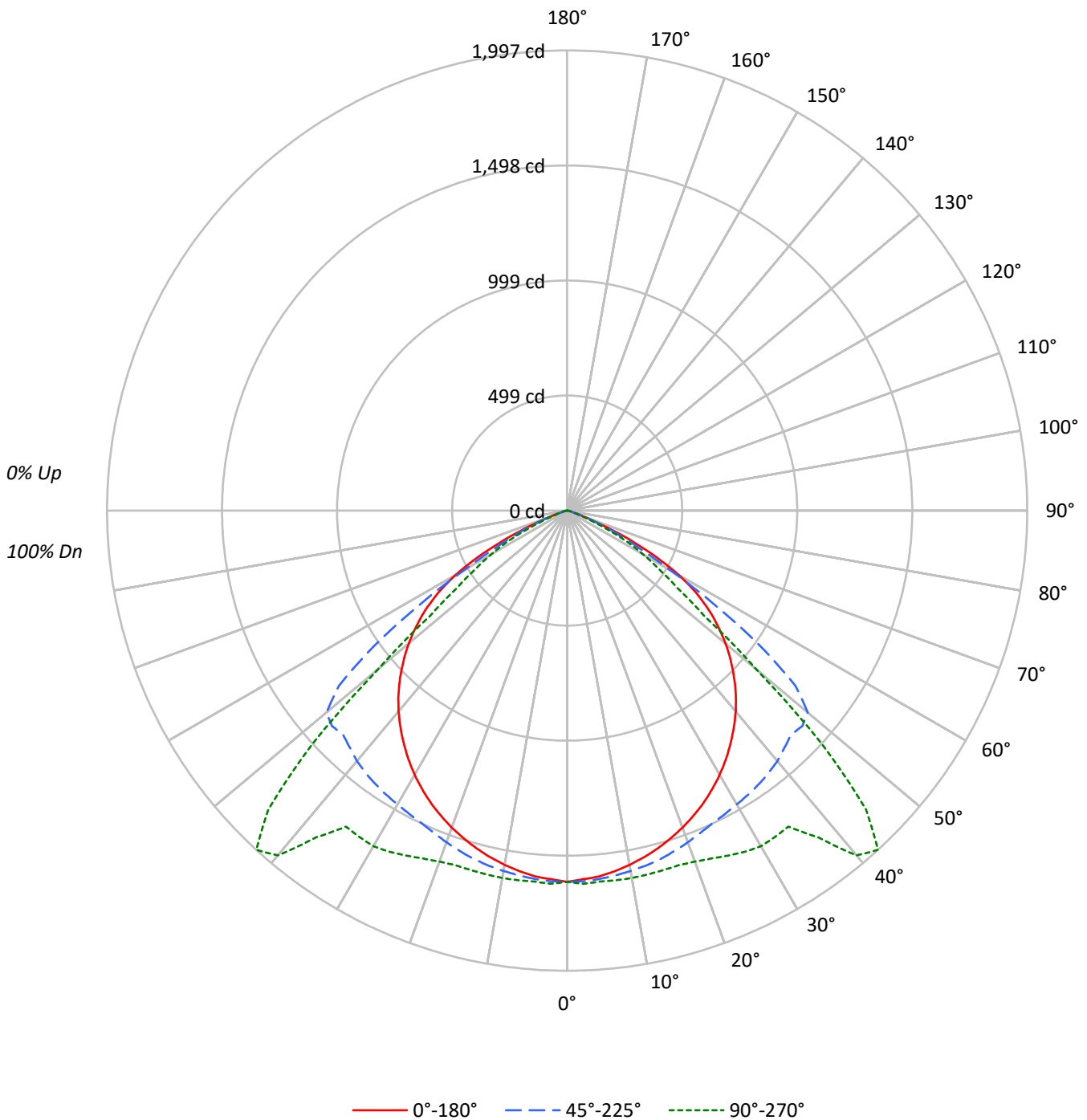
Input Watts (W): 59.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	76	76	76	76	76	76	76														
1	84	81	78	76	82	79	77	75	76	74	72	73	72	70	71	69	68	67	67	67	67	67	67	67														
2	77	72	68	64	75	71	67	63	68	65	62	66	63	60	63	61	59	58	58	58	58	58	58	58														
3	71	64	59	54	69	63	58	54	61	57	53	59	55	52	57	54	51	50	50	50	50	50	50	50														
4	65	57	51	47	64	56	51	46	54	50	46	53	49	45	51	48	45	43	43	43	43	43	43	43														
5	60	51	45	40	59	51	45	40	49	44	40	48	43	39	46	42	39	38	38	38	38	38	38	38														
6	56	46	40	35	54	46	40	35	44	39	35	43	38	35	42	38	34	33	33	33	33	33	33	33														
7	52	42	36	31	50	41	35	31	40	35	31	39	34	31	38	34	30	29	29	29	29	29	29	29														
8	48	38	32	28	47	38	32	28	37	31	28	36	31	27	35	31	27	26	26	26	26	26	26	26														
9	45	35	29	25	44	35	29	25	34	28	25	33	28	25	32	28	25	23	23	23	23	23	23	23														
10	42	32	26	23	41	32	26	22	31	26	22	30	26	22	30	25	22	21	21	21	21	21	21	21														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3318	3318	3318
5°	3295	3318	3341
10°	3264	3321	3385
15°	3236	3336	3443
20°	3208	3357	3552
25°	3181	3399	3754
30°	3148	3500	4000
35°	3107	3645	4208
40°	3059	3815	5250
45°	2985	4004	5344
50°	2877	4367	3434
55°	2693	3669	2086
60°	2306	2100	1577
65°	1457	1165	916
70°	476	494	307
75°	159	191	159
80°	83	119	107
85°	47	71	47



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	152.6	3.5	2.7	0°	1611	1611	1611	1611	1611	
10°-20°	442.4	10.3	7.8	5°	1594	1597	1605	1609	1616	151
20°-30°	699.0	16.2	12.3	15°	1518	1529	1565	1597	1615	428
30°-40°	916.2	21.3	16.1	25°	1400	1430	1496	1593	1652	645
40°-50°	1068.0	24.8	18.7	35°	1236	1290	1450	1597	1674	773
50°-60°	728.6	16.9	12.8	45°	1025	1124	1375	1781	1835	789
60°-70°	267.3	6.2	4.7	55°	750	912	1022	625	581	663
70°-80°	30.7	0.7	0.5	65°	299	355	239	202	188	300
80°-90°	3.7	0.1	0.1	75°	20	24	24	23	20	29
90°-100°	0.0	0.0	0.0	85°	2	3	3	3	2	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1294.0	30.0	22.7	165°	0	0	0	0	0	0
0°-40°	2210.2	51.3	38.8	175°	0	0	0	0	0	0
0°-60°	4006.9	93.0	70.3	180°	0	0	0	0	0	0
0°-90°	4308.6	100.0	75.6							
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°	4308.6	100.0	75.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611	1611	1611	1611	1611
2.5°	1601	1605	1610	1612	1621
5°	1594	1597	1605	1609	1616
7.5°	1579	1584	1597	1609	1618
10°	1561	1568	1588	1608	1619
12.5°	1541	1550	1578	1603	1617
15°	1518	1529	1565	1597	1615
17.5°	1492	1508	1549	1588	1613
20°	1464	1485	1532	1584	1621
22.5°	1433	1459	1513	1587	1634
25°	1400	1430	1496	1593	1652
27.5°	1363	1399	1484	1602	1669
30°	1324	1365	1472	1609	1682
32.5°	1281	1329	1462	1609	1679
35°	1236	1290	1450	1597	1674
37.5°	1188	1249	1436	1595	1787
40°	1138	1208	1419	1693	1953
42.5°	1084	1166	1396	1799	1997
45°	1025	1124	1375	1781	1835
47.5°	963	1079	1384	1580	1503
50°	898	1031	1363	1247	1072
52.5°	826	977	1249	879	749
55°	750	912	1022	625	581
57.5°	663	827	752	482	471
60°	560	706	510	380	383
62.5°	433	543	350	292	293
65°	299	355	239	202	188
67.5°	169	188	149	117	97
70°	79	86	82	61	51
72.5°	36	42	42	35	30
75°	20	24	24	23	20
77.5°	12	15	16	15	14
80°	7	9	10	10	9
82.5°	4	5	6	6	5
85°	2	3	3	3	2
87.5°	1	1	1	1	1
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)