

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: 115P146

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P146
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-232S26I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with a 3" deep
12 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1

Summary

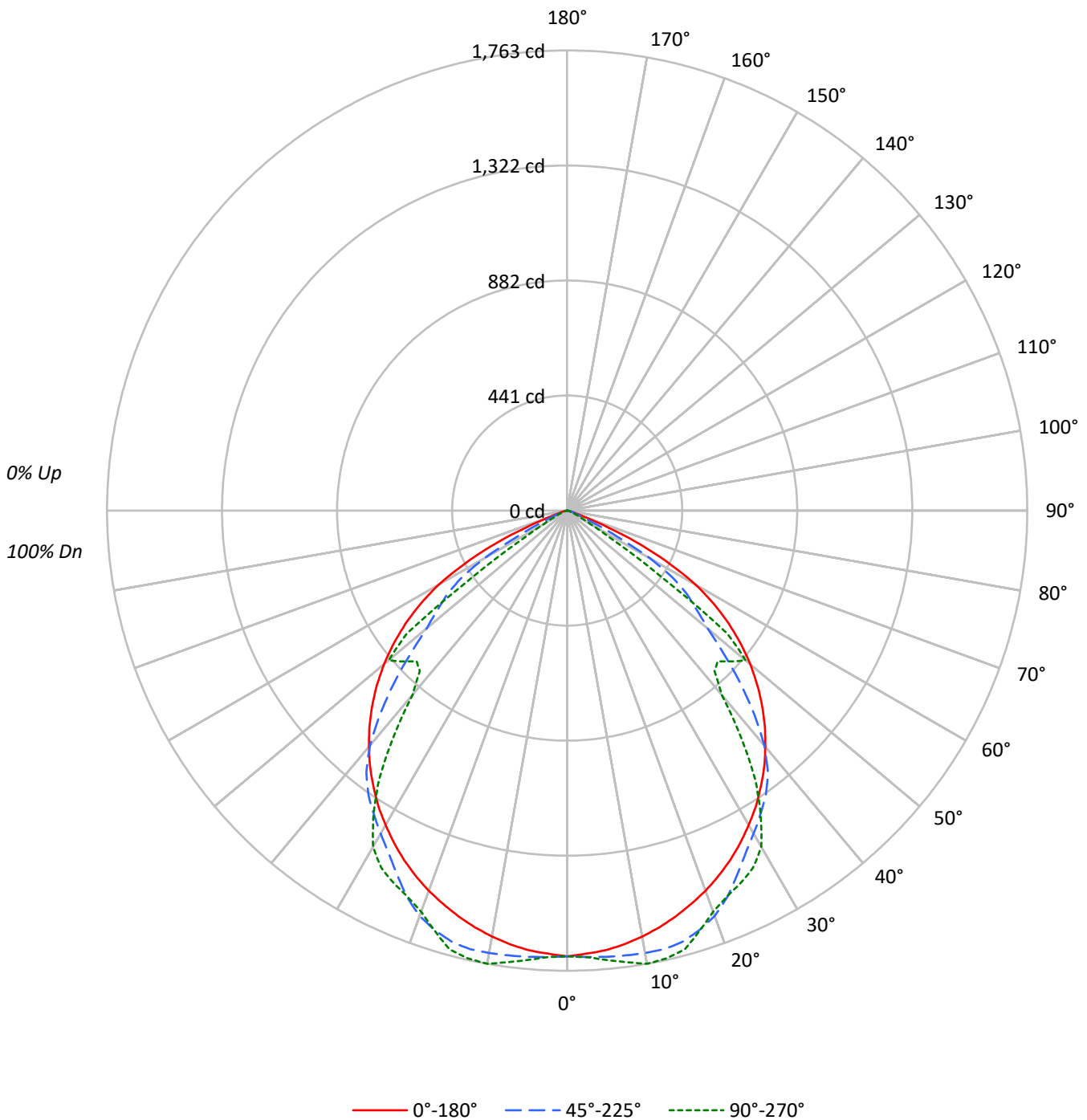
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 3585.8 lumens
Efficiency: 62.9%
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.28
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 57.8
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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	70	68	66	64	69	66	65	63	64	62	61	62	60	59	59	58	57	56
2	65	61	58	55	64	60	57	54	58	55	53	56	54	52	54	52	51	49
3	60	55	51	47	59	54	50	47	52	49	46	50	48	45	49	47	45	43
4	56	49	45	41	54	49	44	41	47	43	40	46	42	40	44	42	39	38
5	52	45	40	36	51	44	39	36	43	39	36	42	38	35	41	37	35	34
6	48	41	36	32	47	40	35	32	39	35	32	38	34	31	37	34	31	30
7	45	37	32	29	44	37	32	29	36	32	28	35	31	28	34	31	28	27
8	42	34	29	26	41	34	29	26	33	29	26	32	28	26	31	28	25	24
9	39	31	27	23	38	31	27	23	30	26	23	30	26	23	29	26	23	22
10	37	29	24	21	36	29	24	21	28	24	21	28	24	21	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6723	6723	6723
5°	6682	6781	6828
10°	6623	6879	7047
15°	6557	6969	7095
20°	6493	6924	6849
25°	6419	6689	6836
30°	6322	6495	6763
35°	6213	6382	6036
40°	6069	6038	4733
45°	5879	5244	4543
50°	5603	4299	5469
55°	5188	3857	2903
60°	4480	2905	803
65°	2971	931	373
70°	771	368	219
75°	319	228	152
80°	181	159	91
85°	90	90	45



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	163.7	4.6	2.9	0°	1708	1708	1708	1708	1708	
10°-20°	475.8	13.3	8.3	5°	1691	1700	1716	1729	1728	160
20°-30°	710.2	19.8	12.5	15°	1609	1648	1710	1737	1741	454
30°-40°	811.4	22.6	14.2	25°	1478	1548	1540	1548	1574	681
40°-50°	724.5	20.2	12.7	35°	1293	1347	1328	1289	1256	808
50°-60°	528.1	14.7	9.3	45°	1056	1048	942	779	816	813
60°-70°	151.6	4.2	2.7	55°	756	699	562	578	423	671
70°-80°	18.1	0.5	0.3	65°	319	217	100	51	40	308
80°-90°	2.6	0.1	0.0	75°	21	19	15	11	10	28
90°-100°	0.0	0.0	0.0	85°	2	2	2	1	1	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°	1349.6	37.6	23.7	165°	0	0	0	0	0	0
0°-40°	2161.0	60.3	37.9	175°	0	0	0	0	0	0
0°-60°	3413.5	95.2	59.9	180°	0	0	0	0	0	0
0°-90°	3585.8	100.0	62.9							
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°	3585.8	100.0	62.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708	1708	1708	1708	1708
2.5°	1699	1705	1712	1717	1712
5°	1691	1700	1716	1729	1728
7.5°	1676	1691	1719	1742	1745
10°	1657	1680	1721	1758	1763
12.5°	1635	1665	1721	1756	1757
15°	1609	1648	1710	1737	1741
17.5°	1580	1627	1685	1700	1688
20°	1550	1605	1653	1640	1635
22.5°	1515	1580	1603	1587	1600
25°	1478	1548	1540	1548	1574
27.5°	1436	1507	1480	1517	1543
30°	1391	1459	1429	1473	1488
32.5°	1345	1406	1379	1400	1381
35°	1293	1347	1328	1289	1256
37.5°	1240	1278	1264	1160	1094
40°	1181	1204	1175	1001	921
42.5°	1121	1126	1063	852	835
45°	1056	1048	942	779	816
47.5°	988	969	815	755	856
50°	915	887	702	766	893
52.5°	838	796	626	745	773
55°	756	699	562	578	423
57.5°	667	590	483	301	197
60°	569	471	369	146	102
62.5°	447	346	217	80	62
65°	319	217	100	51	40
67.5°	172	109	52	34	27
70°	67	48	32	24	19
72.5°	34	28	22	16	13
75°	21	19	15	11	10
77.5°	13	12	10	8	6
80°	8	8	7	5	4
82.5°	5	5	4	3	2
85°	2	2	2	1	1
87.5°	0	1	1	1	0
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)