

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: 115P144

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P144
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-232S28I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with
a 3" deep 16 cell semi-specular low iridescent
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

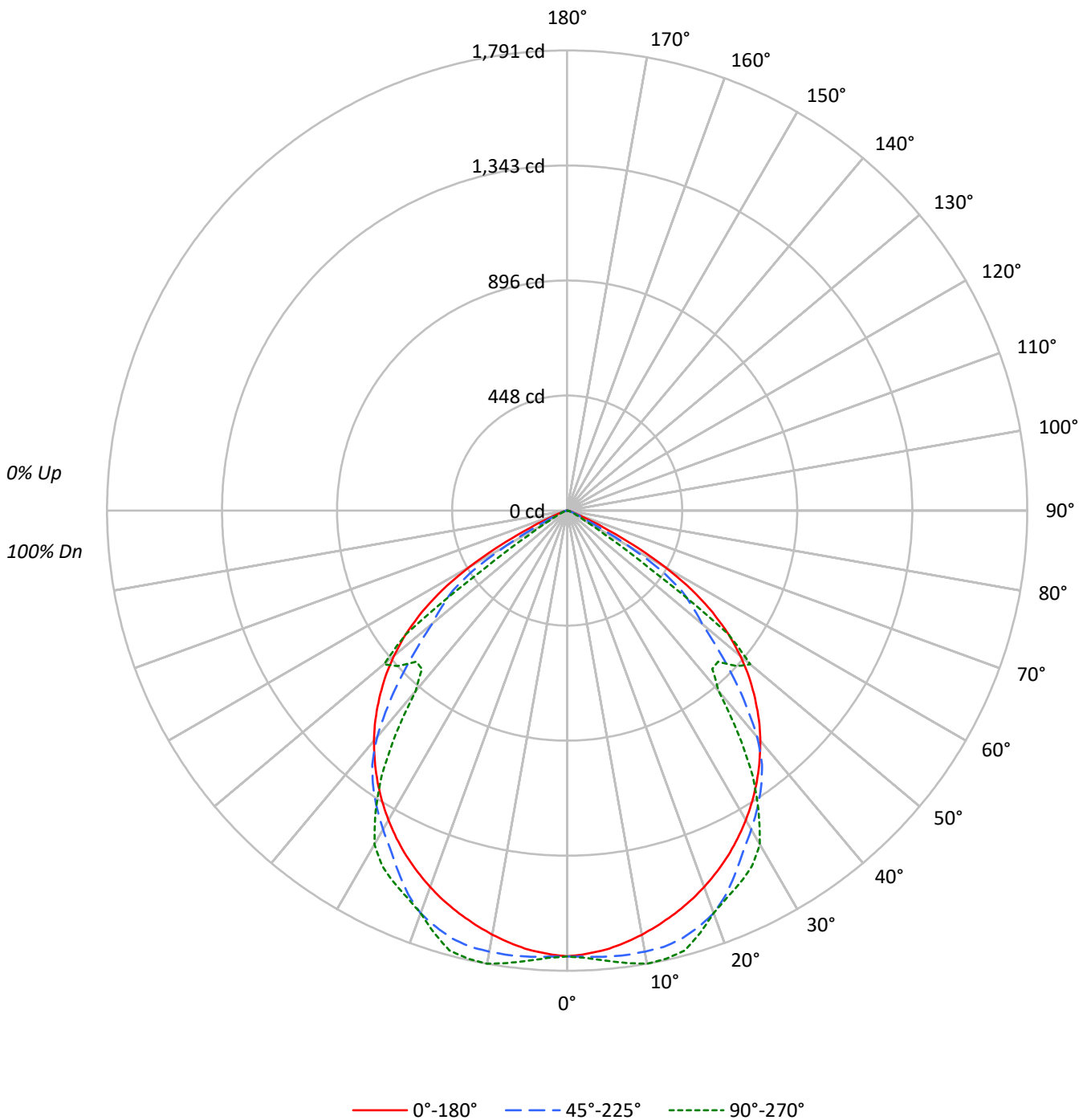
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 3494.3 lumens
Efficiency: 61.3%
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.26
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 57.9
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	73	73	73	73	71	71	71	71	68	68	68	65	65	65	63	63	63	61
1	68	66	64	63	67	65	63	62	62	61	60	60	59	58	58	57	56	55
2	64	60	57	54	62	59	56	53	57	54	52	55	53	51	53	51	50	49
3	59	54	50	47	58	53	49	46	51	48	45	50	47	45	48	46	44	43
4	55	49	44	41	53	48	44	40	46	43	40	45	42	39	44	41	39	38
5	51	44	39	36	50	43	39	36	42	38	35	41	38	35	40	37	35	34
6	47	40	35	32	46	40	35	32	39	35	32	38	34	31	37	34	31	30
7	44	37	32	29	43	36	32	29	35	31	28	35	31	28	34	31	28	27
8	41	34	29	26	40	33	29	26	33	29	26	32	28	26	31	28	25	24
9	39	31	27	23	38	31	26	23	30	26	23	29	26	23	29	26	23	22
10	36	29	24	21	36	29	24	21	28	24	21	27	24	21	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6830	6830	6830
5°	6781	6887	6950
10°	6699	6967	7159
15°	6614	7030	7221
20°	6531	6987	6983
25°	6437	6745	6936
30°	6322	6513	6818
35°	6185	6324	6045
40°	6012	5914	4712
45°	5756	5083	4626
50°	5389	4201	5695
55°	4742	3733	2670
60°	3464	2149	701
65°	1472	577	345
70°	449	311	207
75°	259	198	137
80°	159	136	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°	166.2	4.8	2.9	0°	1735	1735	1735	1735	1735	
10°-20°	481.4	13.8	8.4	5°	1716	1725	1743	1760	1759	163
20°-30°	714.7	20.5	12.5	15°	1623	1663	1725	1765	1772	458
30°-40°	806.8	23.1	14.2	25°	1482	1549	1553	1566	1597	682
40°-50°	714.7	20.5	12.5	35°	1287	1341	1316	1277	1258	804
50°-60°	490.2	14.0	8.6	45°	1034	1027	913	776	831	796
60°-70°	102.5	2.9	1.8	55°	691	629	544	547	389	606
70°-80°	15.2	0.4	0.3	65°	158	127	62	44	37	187
80°-90°	2.5	0.1	0.0	75°	17	16	13	11	9	20
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°	1362.3	39.0	23.9	165°	0	0	0	0	0	0
0°-40°	2169.1	62.1	38.1	175°	0	0	0	0	0	0
0°-60°	3374.1	96.6	59.2	180°	0	0	0	0	0	0
0°-90°	3494.3	100.0	61.3							
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°	3494.3	100.0	61.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735	1735	1735	1735	1735
2.5°	1727	1730	1738	1746	1743
5°	1716	1725	1743	1760	1759
7.5°	1698	1715	1745	1772	1776
10°	1676	1701	1743	1784	1791
12.5°	1651	1683	1739	1780	1786
15°	1623	1663	1725	1765	1772
17.5°	1593	1639	1699	1727	1723
20°	1559	1614	1668	1666	1667
22.5°	1522	1584	1617	1607	1629
25°	1482	1549	1553	1566	1597
27.5°	1438	1505	1488	1525	1559
30°	1391	1456	1433	1475	1500
32.5°	1341	1402	1377	1396	1387
35°	1287	1341	1316	1277	1258
37.5°	1230	1270	1246	1146	1094
40°	1170	1192	1151	987	917
42.5°	1105	1112	1033	839	836
45°	1034	1027	913	776	831
47.5°	961	942	791	764	896
50°	880	849	686	783	930
52.5°	792	745	615	740	792
55°	691	629	544	547	389
57.5°	577	498	432	254	176
60°	440	359	273	123	89
62.5°	293	230	129	68	56
65°	158	127	62	44	37
67.5°	73	60	39	30	25
70°	39	35	27	21	18
72.5°	26	23	18	15	12
75°	17	16	13	11	9
77.5°	11	11	9	7	6
80°	7	7	6	5	4
82.5°	4	4	4	3	2
85°	2	2	2	1	1
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)