

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: 104P222

Luminaire Tested: **2EP3GX-232W36P-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P222
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232W36P-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a
3" deep 18 cell white powder painted louver.
Light Source: Two-FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B232I120RH Electronic; Ballast Factor 87.16

Summary

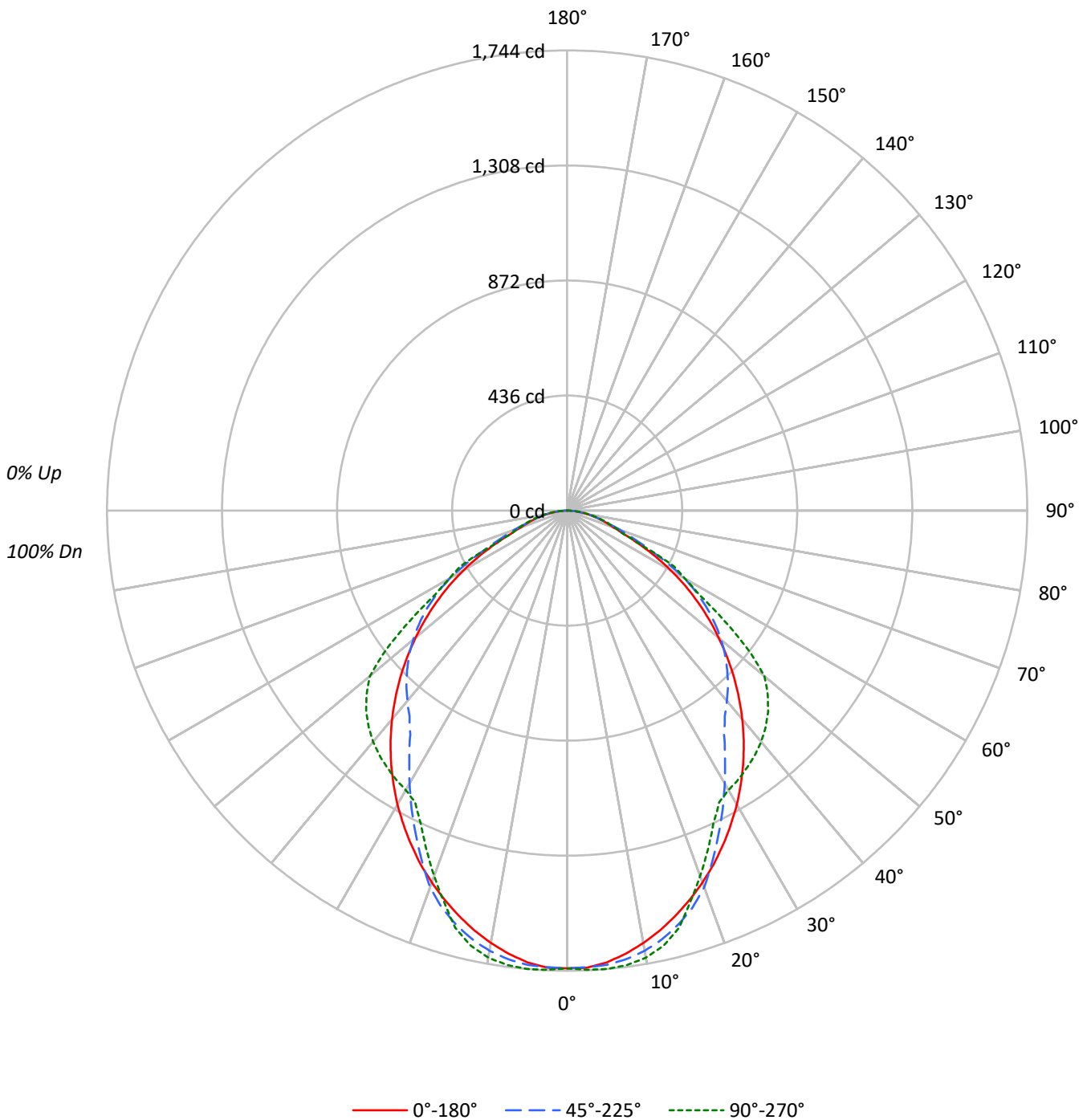
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 3733.6 lumens
Efficiency: 65.5%
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	72	69	67	65	70	68	66	64	65	63	62		63	61	60		60	59	58	57
2	66	61	57	54	65	60	56	53	58	55	52		56	53	51		54	52	50	48
3	61	55	50	46	59	54	49	45	52	48	45		50	47	44		48	45	43	42
4	56	49	43	39	55	48	43	39	46	42	39		45	41	38		43	40	38	36
5	52	44	38	34	50	43	38	34	42	37	34		41	37	33		39	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30		37	33	30		36	32	29	28
7	45	36	31	27	44	36	31	27	35	30	27		34	30	27		33	29	26	25
8	42	33	28	24	41	33	28	24	32	27	24		31	27	24		30	27	24	23
9	39	31	25	22	38	30	25	22	29	25	22		29	25	22		28	24	22	20
10	37	28	23	20	36	28	23	20	27	23	20		27	23	20		26	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2880	2880	2880
5°	2864	2879	2906
10°	2805	2855	2899
15°	2731	2793	2813
20°	2650	2683	2604
25°	2561	2485	2401
30°	2465	2289	2344
35°	2359	2101	2409
40°	2238	2041	2479
45°	2099	2014	2528
50°	1937	1968	2520
55°	1748	1878	2101
60°	1511	1703	1710
65°	1186	1304	1229
70°	908	1029	956
75°	821	853	885
80°	736	774	822
85°	629	667	724



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	163.8	4.4	2.9	0°	1735	1735	1735	1735	1735	
10°-20°	453.4	12.1	8.0	5°	1719	1718	1728	1733	1744	162
20°-30°	626.4	16.8	11.0	15°	1589	1604	1625	1634	1637	447
30°-40°	703.7	18.8	12.3	25°	1398	1418	1357	1309	1311	643
40°-50°	706.0	18.9	12.4	35°	1164	1160	1037	1117	1189	727
50°-60°	573.4	15.4	10.1	45°	894	842	858	983	1077	688
60°-70°	324.0	8.7	5.7	55°	604	554	649	710	726	539
70°-80°	142.6	3.8	2.5	65°	302	316	332	340	313	304
80°-90°	40.4	1.1	0.7	75°	128	130	133	136	138	137
90°-100°	0.0	0.0	0.0	85°	33	34	35	37	38	36
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1243.6	33.3	21.8	165°	0	0	0	0	0	0
0°-40°	1947.3	52.2	34.2	175°	0	0	0	0	0	0
0°-60°	3226.7	86.4	56.6	180°	0	0	0	0	0	0
0°-90°	3733.6	100.0	65.5							
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°	3733.6	100.0	65.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735	1735	1735	1735	1735
2.5°	1734	1730	1732	1733	1742
5°	1719	1718	1728	1733	1744
7.5°	1694	1699	1715	1725	1737
10°	1664	1673	1694	1708	1720
12.5°	1629	1641	1664	1678	1689
15°	1589	1604	1625	1634	1637
17.5°	1546	1563	1578	1558	1554
20°	1500	1520	1519	1476	1474
22.5°	1451	1471	1438	1393	1392
25°	1398	1418	1357	1309	1311
27.5°	1343	1360	1276	1228	1247
30°	1286	1299	1194	1170	1223
32.5°	1226	1234	1114	1143	1208
35°	1164	1160	1037	1117	1189
37.5°	1099	1080	982	1090	1169
40°	1033	1000	942	1059	1144
42.5°	964	921	902	1023	1113
45°	894	842	858	983	1077
47.5°	822	764	812	937	1031
50°	750	688	762	882	976
52.5°	678	615	708	818	864
55°	604	554	649	710	726
57.5°	530	497	585	587	594
60°	455	439	513	478	515
62.5°	378	379	422	412	455
65°	302	316	332	340	313
67.5°	231	250	263	233	229
70°	187	192	212	194	197
72.5°	157	159	162	164	167
75°	128	130	133	136	138
77.5°	102	104	106	109	112
80°	77	79	81	84	86
82.5°	54	56	58	60	61
85°	33	34	35	37	38
87.5°	14	14	14	15	16
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)