

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: 214P107

Luminaire Tested: **2GCASF-2BX40A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-2BX40A
Description: 2 X 2 Recessed Air Supply Convertible Body
Luminaire with a .095 pattern 12 acrylic lens.
Light Source: Two - F40BX/SPX35/RS - 3150 Lumens ea. 40 Watts ea.
Ballast/Driver: Sylvania QT-2X40/120DL Electronic - L.O.B.F. = 96.3

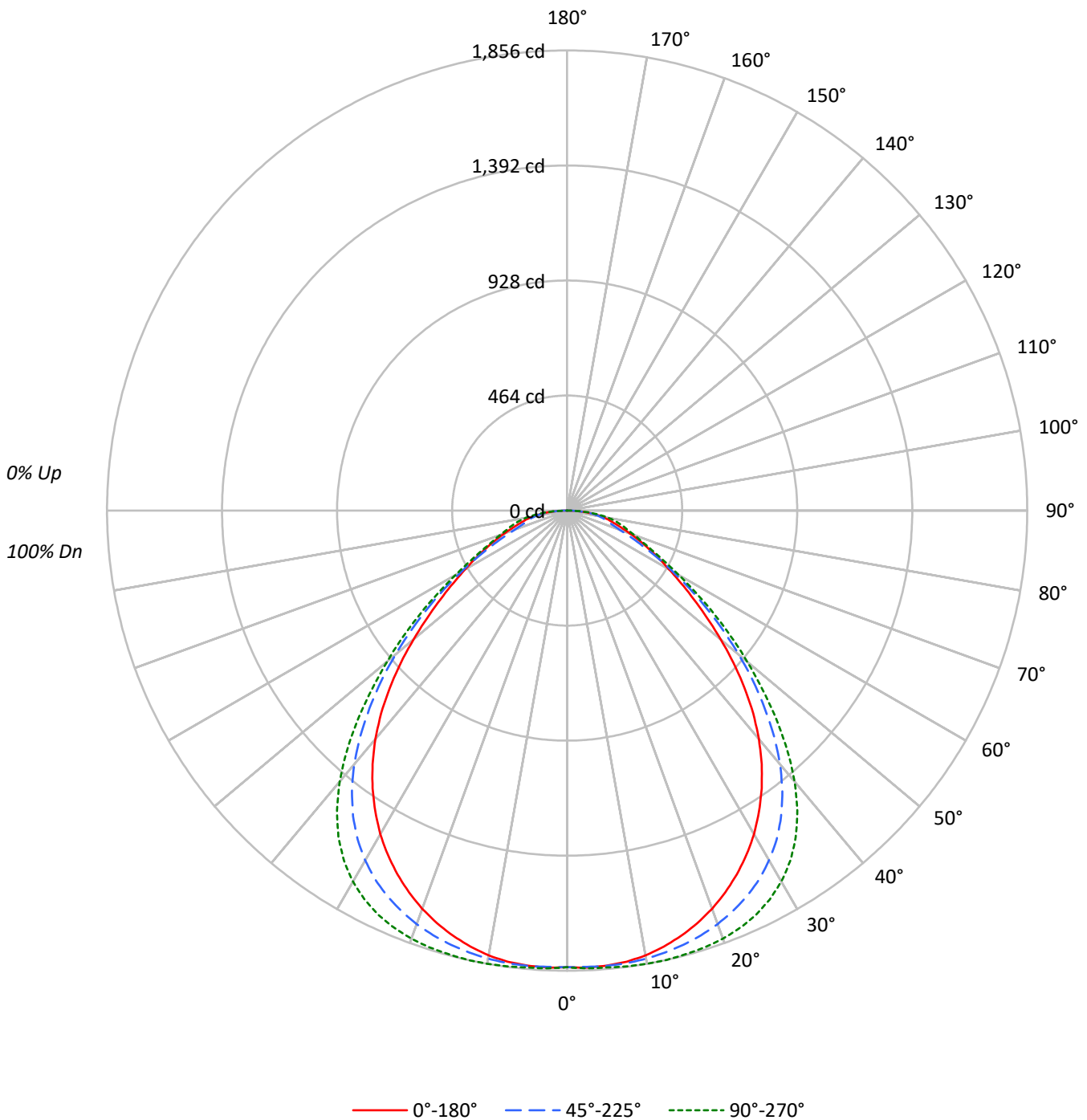
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4521.3 lumens
Efficiency: 71.8%
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.36 / 1.34
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	85	85	85	85	83	83	83	83	80	80	80	76	76	76	73	73	73	72
1	79	76	73	70	77	74	71	69	71	69	67	68	66	65	66	64	63	62
2	72	67	62	59	70	66	61	58	63	60	57	61	58	55	59	56	54	53
3	66	59	54	50	65	58	53	49	56	52	48	54	51	48	53	49	47	45
4	61	53	47	43	60	52	47	43	51	46	42	49	45	41	47	44	41	39
5	57	48	42	37	55	47	41	37	46	41	37	44	40	36	43	39	36	35
6	52	43	37	33	51	43	37	33	42	36	33	40	36	32	39	35	32	31
7	49	40	34	29	48	39	33	29	38	33	29	37	32	29	36	32	29	27
8	46	36	30	26	44	36	30	26	35	30	26	34	29	26	33	29	26	25
9	43	33	28	24	42	33	28	24	32	27	24	31	27	24	31	27	23	22
10	40	31	25	22	39	30	25	22	30	25	22	29	25	22	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6857	6857	6857
5°	6883	6887	6913
10°	6887	6936	7015
15°	6844	6987	7137
20°	6770	7031	7277
25°	6650	7048	7393
30°	6477	7002	7427
35°	6216	6839	7307
40°	5846	6492	6939
45°	5327	5933	6291
50°	4679	5235	5490
55°	4043	4452	4666
60°	3536	3655	3864
65°	3188	2951	3312
70°	2928	2460	3113
75°	2819	2402	3279
80°	3044	2830	3623
85°	3118	3075	3801



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	175.8	3.9	2.8	0°	1842	1842	1842	1842	1842	
10°-20°	512.2	11.3	8.1	5°	1842	1840	1843	1846	1850	175
20°-30°	788.3	17.4	12.5	15°	1776	1785	1813	1841	1852	501
30°-40°	930.9	20.6	14.8	25°	1619	1649	1716	1777	1800	745
40°-50°	856.3	18.9	13.6	35°	1368	1414	1505	1576	1608	853
50°-60°	608.6	13.5	9.7	45°	1012	1056	1127	1171	1195	778
60°-70°	357.9	7.9	5.7	55°	623	648	686	703	719	562
70°-80°	209.5	4.6	3.3	65°	362	342	335	369	376	362
80°-90°	81.9	1.8	1.3	75°	196	192	167	215	228	211
90°-100°	0.0	0.0	0.0	85°	73	72	72	86	89	74
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	1476.2	32.7	23.4	165°	0	0	0	0	0	0
0°-40°	2407.1	53.2	38.2	175°	0	0	0	0	0	0
0°-60°	3872.0	85.6	61.5	180°	0	0	0	0	0	0
0°-90°	4521.3	100.0	71.8							
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°	4521.3	100.0	71.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842	1842	1842	1842	1842
2.5°	1845	1841	1842	1844	1848
5°	1842	1840	1843	1846	1850
7.5°	1835	1835	1841	1848	1854
10°	1822	1823	1835	1848	1856
12.5°	1801	1806	1826	1846	1856
15°	1776	1785	1813	1841	1852
17.5°	1745	1758	1796	1832	1847
20°	1709	1727	1775	1819	1837
22.5°	1667	1691	1748	1801	1822
25°	1619	1649	1716	1777	1800
27.5°	1566	1601	1677	1744	1769
30°	1507	1546	1629	1700	1728
32.5°	1440	1484	1573	1646	1675
35°	1368	1414	1505	1576	1608
37.5°	1289	1336	1426	1494	1525
40°	1203	1250	1336	1398	1428
42.5°	1111	1156	1235	1289	1316
45°	1012	1056	1127	1171	1195
47.5°	910	953	1017	1047	1069
50°	808	851	904	926	948
52.5°	711	749	792	811	832
55°	623	648	686	703	719
57.5°	544	554	585	602	614
60°	475	471	491	509	519
62.5°	415	400	407	432	440
65°	362	342	335	369	376
67.5°	314	294	274	320	326
70°	269	254	226	281	286
72.5°	229	221	191	247	254
75°	196	192	167	215	228
77.5°	170	162	150	184	201
80°	142	133	132	154	169
82.5°	110	103	107	124	132
85°	73	72	72	86	89
87.5°	36	37	35	40	40
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)