

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: 214P106

Luminaire Tested: **2GCASF-2BX40A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-2BX40A125
Description: 2 X 2 Recessed Air Supply Convertible Body
Luminaire with a .125 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

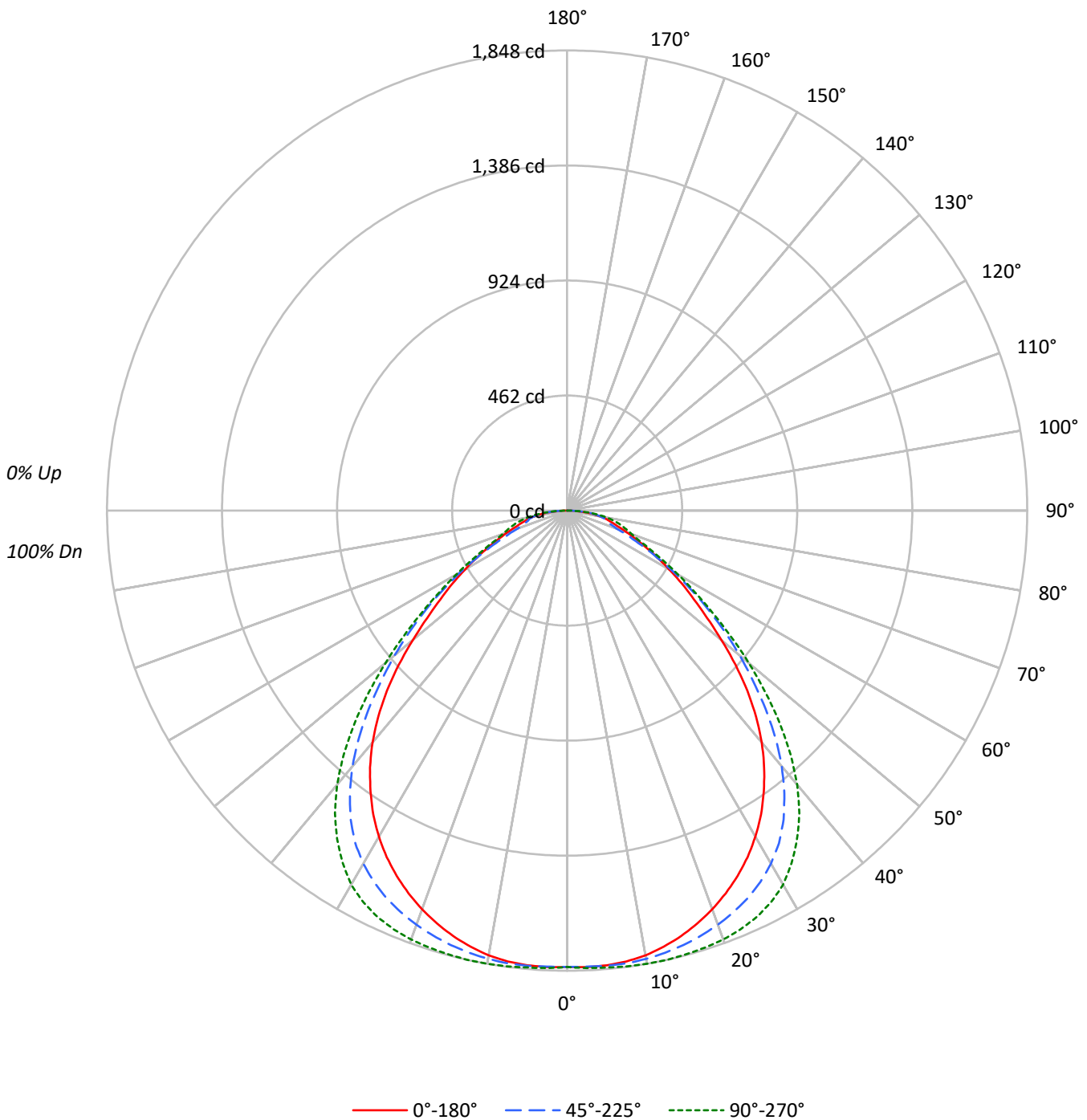
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4511.0 lumens
Efficiency: 71.6%
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.37 / 1.34
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 72.5
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	41	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	45	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	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6823	6823	6823
5°	6849	6857	6883
10°	6857	6909	6985
15°	6817	6960	7110
20°	6750	7011	7261
25°	6650	7052	7397
30°	6499	7036	7457
35°	6257	6884	7316
40°	5909	6516	6983
45°	5385	5933	6359
50°	4685	5235	5513
55°	4037	4484	4608
60°	3529	3678	3834
65°	3074	2889	3215
70°	2764	2318	2993
75°	2689	2373	3193
80°	2915	2937	3494
85°	2904	3246	3502



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	175.0	3.9	2.8	0°	1833	1833	1833	1833	1833	
10°-20°	510.4	11.3	8.1	5°	1833	1833	1835	1838	1842	174
20°-30°	788.9	17.5	12.5	15°	1769	1778	1806	1833	1845	499
30°-40°	935.2	20.7	14.8	25°	1619	1649	1717	1778	1801	745
40°-50°	859.8	19.1	13.6	35°	1377	1427	1515	1574	1610	859
50°-60°	613.3	13.6	9.7	45°	1023	1054	1127	1181	1208	785
60°-70°	351.4	7.8	5.6	55°	622	659	691	714	710	562
70°-80°	197.3	4.4	3.1	65°	349	340	328	360	365	351
80°-90°	79.6	1.8	1.3	75°	187	174	165	193	222	201
90°-100°	0.0	0.0	0.0	85°	68	69	76	85	82	69
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1474.4	32.7	23.4	165°	0	0	0	0	0	0
0°-40°	2409.6	53.4	38.2	175°	0	0	0	0	0	0
0°-60°	3882.7	86.1	61.6	180°	0	0	0	0	0	0
0°-90°	4511.0	100.0	71.6							
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°	4511.0	100.0	71.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833	1833	1833	1833	1833
2.5°	1835	1833	1833	1835	1839
5°	1833	1833	1835	1838	1842
7.5°	1826	1828	1834	1840	1846
10°	1814	1816	1828	1840	1848
12.5°	1794	1800	1819	1838	1848
15°	1769	1778	1806	1833	1845
17.5°	1739	1753	1790	1826	1840
20°	1704	1723	1770	1816	1833
22.5°	1664	1689	1746	1800	1820
25°	1619	1649	1717	1778	1801
27.5°	1569	1605	1681	1748	1773
30°	1512	1554	1637	1708	1735
32.5°	1449	1495	1584	1649	1678
35°	1377	1427	1515	1574	1610
37.5°	1300	1349	1433	1491	1532
40°	1216	1260	1341	1397	1437
42.5°	1124	1161	1238	1293	1328
45°	1023	1054	1127	1181	1208
47.5°	917	947	1012	1062	1079
50°	809	845	904	937	952
52.5°	708	751	796	822	827
55°	622	659	691	714	710
57.5°	546	570	589	615	605
60°	474	487	494	521	515
62.5°	408	409	406	434	434
65°	349	340	328	360	365
67.5°	298	281	263	303	312
70°	254	235	213	258	275
72.5°	216	201	182	223	248
75°	187	174	165	193	222
77.5°	163	150	155	167	194
80°	136	127	137	147	163
82.5°	104	101	109	122	126
85°	68	69	76	85	82
87.5°	30	32	33	39	37
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)