

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: 126P128

Luminaire Tested: **2GC-2BX40A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P128
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-2BX40A
Description: 2 X 2 Recessed 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

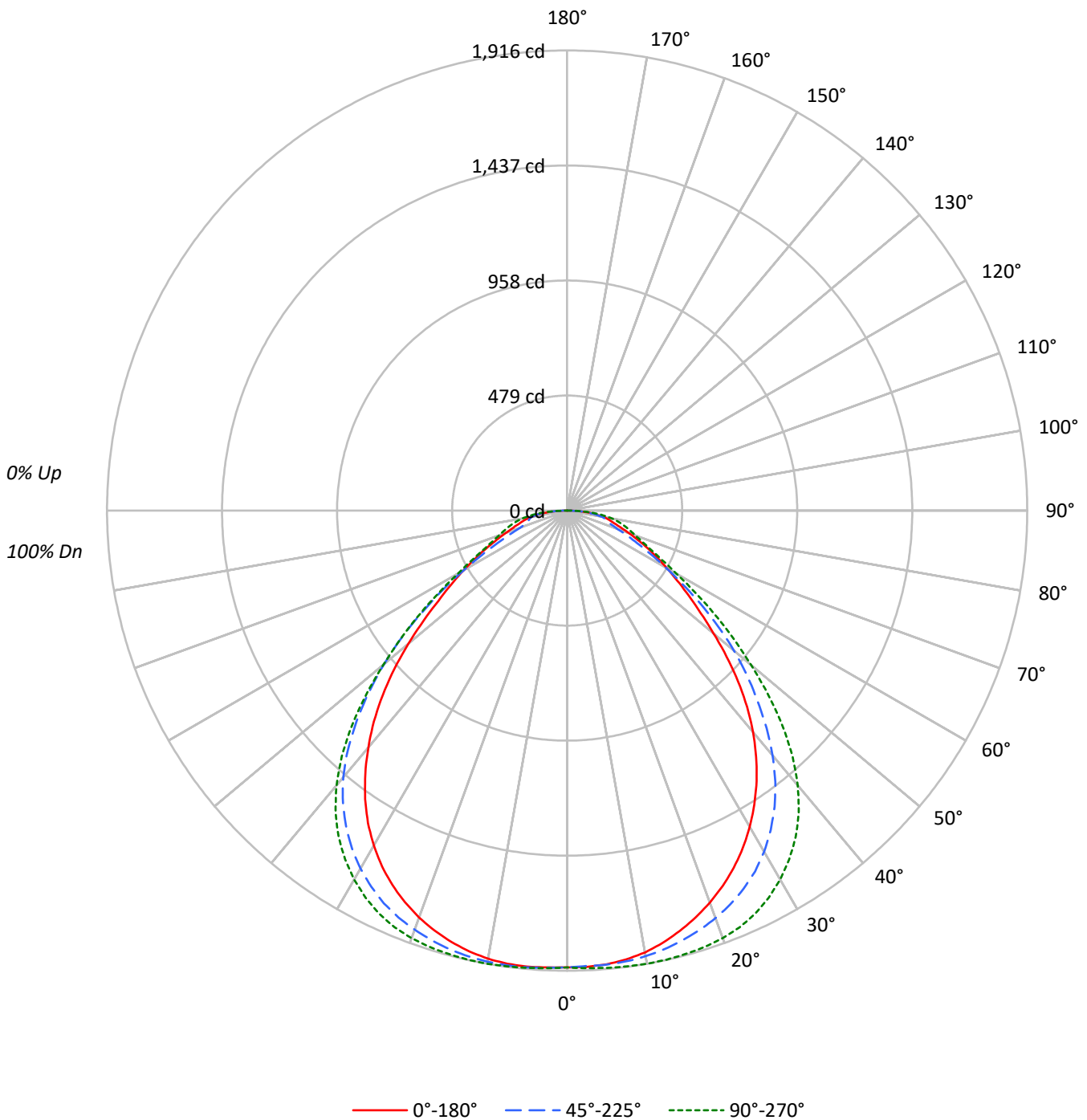
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4678.2 lumens
Efficiency: 74.3%
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.34
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 72.8
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	88	88	88	88	86	86	86	86	83	83	83	79	79	79	76	76	76	74
1	81	78	75	73	79	77	74	71	73	71	69	70	69	67	68	66	65	64
2	75	69	65	61	73	68	64	60	65	62	58	63	60	57	61	58	56	54
3	69	62	56	51	67	60	55	51	58	54	50	56	52	49	54	51	48	47
4	63	55	49	44	62	54	48	44	52	47	43	51	46	43	49	45	42	41
5	59	50	43	39	57	49	43	38	47	42	38	46	41	38	44	41	37	36
6	54	45	39	34	53	44	38	34	43	38	34	42	37	33	41	36	33	32
7	50	41	35	30	49	40	34	30	39	34	30	38	33	30	37	33	30	28
8	47	37	31	27	46	37	31	27	36	31	27	35	30	27	34	30	27	25
9	44	35	29	25	43	34	28	25	33	28	25	32	28	24	32	27	24	23
10	41	32	26	22	40	32	26	22	31	26	22	30	25	22	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6323	6323	6323
5°	6327	6377	6360
10°	6305	6467	6397
15°	6236	6577	6401
20°	6145	6700	6378
25°	6019	6793	6312
30°	5838	6809	6180
35°	5580	6732	5949
40°	5225	6483	5589
45°	4734	5966	5105
50°	4111	5166	4463
55°	3582	4312	3790
60°	3185	3497	3311
65°	2895	3013	2910
70°	2653	2926	2624
75°	2594	3185	2633
80°	2948	3637	2929
85°	3280	3967	3051



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	181.5	3.9	2.9	0°	1902	1902	1902	1902	1902	
10°-20°	529.0	11.3	8.4	5°	1896	1898	1911	1909	1906	180
20°-30°	813.9	17.4	12.9	15°	1812	1853	1911	1891	1860	511
30°-40°	963.5	20.6	15.3	25°	1641	1738	1852	1805	1721	755
40°-50°	895.2	19.1	14.2	35°	1375	1506	1659	1605	1466	857
50°-60°	625.0	13.4	9.9	45°	1007	1120	1269	1239	1086	773
60°-70°	357.6	7.6	5.7	55°	618	678	744	736	654	558
70°-80°	218.5	4.7	3.5	65°	368	322	383	319	370	367
80°-90°	93.9	2.0	1.5	75°	202	175	248	168	205	218
90°-100°	0.0	0.0	0.0	85°	86	79	104	90	80	84
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	7
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°	1524.4	32.6	24.2	165°	0	0	0	0	0	0
0°-40°	2487.9	53.2	39.5	175°	0	0	0	0	0	0
0°-60°	4008.1	85.7	63.6	180°	0	0	0	0	0	0
0°-90°	4678.2	100.0	74.3							
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°	4678.2	100.0	74.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1902	1902	1902	1902	1902	1902	1902	1902	1902
2.5°	1902	1896	1898	1903	1907	1904	1905	1906	1904
5°	1896	1891	1898	1904	1911	1907	1909	1911	1906
7.5°	1885	1883	1893	1905	1914	1912	1910	1909	1903
10°	1868	1868	1884	1903	1916	1914	1907	1900	1895
12.5°	1843	1846	1871	1898	1915	1914	1901	1887	1880
15°	1812	1819	1853	1889	1911	1909	1891	1871	1860
17.5°	1777	1788	1832	1878	1905	1901	1876	1849	1834
20°	1737	1752	1806	1863	1894	1890	1857	1822	1803
22.5°	1692	1711	1775	1842	1878	1872	1834	1790	1765
25°	1641	1663	1738	1813	1852	1847	1805	1752	1721
27.5°	1584	1610	1694	1774	1817	1812	1766	1708	1670
30°	1521	1549	1640	1726	1774	1769	1721	1655	1610
32.5°	1451	1481	1577	1667	1721	1717	1668	1593	1543
35°	1375	1404	1506	1599	1659	1657	1605	1523	1466
37.5°	1293	1322	1424	1517	1584	1587	1534	1445	1381
40°	1204	1233	1331	1423	1494	1502	1451	1361	1288
42.5°	1109	1136	1229	1315	1389	1396	1352	1267	1191
45°	1007	1031	1120	1197	1269	1270	1239	1163	1086
47.5°	901	926	1016	1072	1136	1131	1120	1049	976
50°	795	826	906	947	999	988	995	931	863
52.5°	701	722	792	829	869	854	868	814	753
55°	618	617	678	717	744	731	736	699	654
57.5°	544	521	569	611	627	618	612	589	572
60°	479	443	472	520	526	516	498	489	498
62.5°	421	382	390	446	445	432	399	407	430
65°	368	332	322	386	383	369	319	339	370
67.5°	318	289	266	337	337	322	255	288	317
70°	273	252	222	296	301	288	207	249	270
72.5°	233	220	192	260	273	260	180	221	234
75°	202	192	175	228	248	233	168	196	205
77.5°	179	166	163	196	221	205	161	171	181
80°	154	139	146	165	190	176	149	145	153
82.5°	122	109	116	134	152	145	125	117	119
85°	86	78	79	98	104	109	90	85	80
87.5°	49	42	42	51	50	58	49	49	38
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)