

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: 126P129

Luminaire Tested: **2GC-2BX40A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P129
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-2BX40A125
Description: 2 X 2 Recessed 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

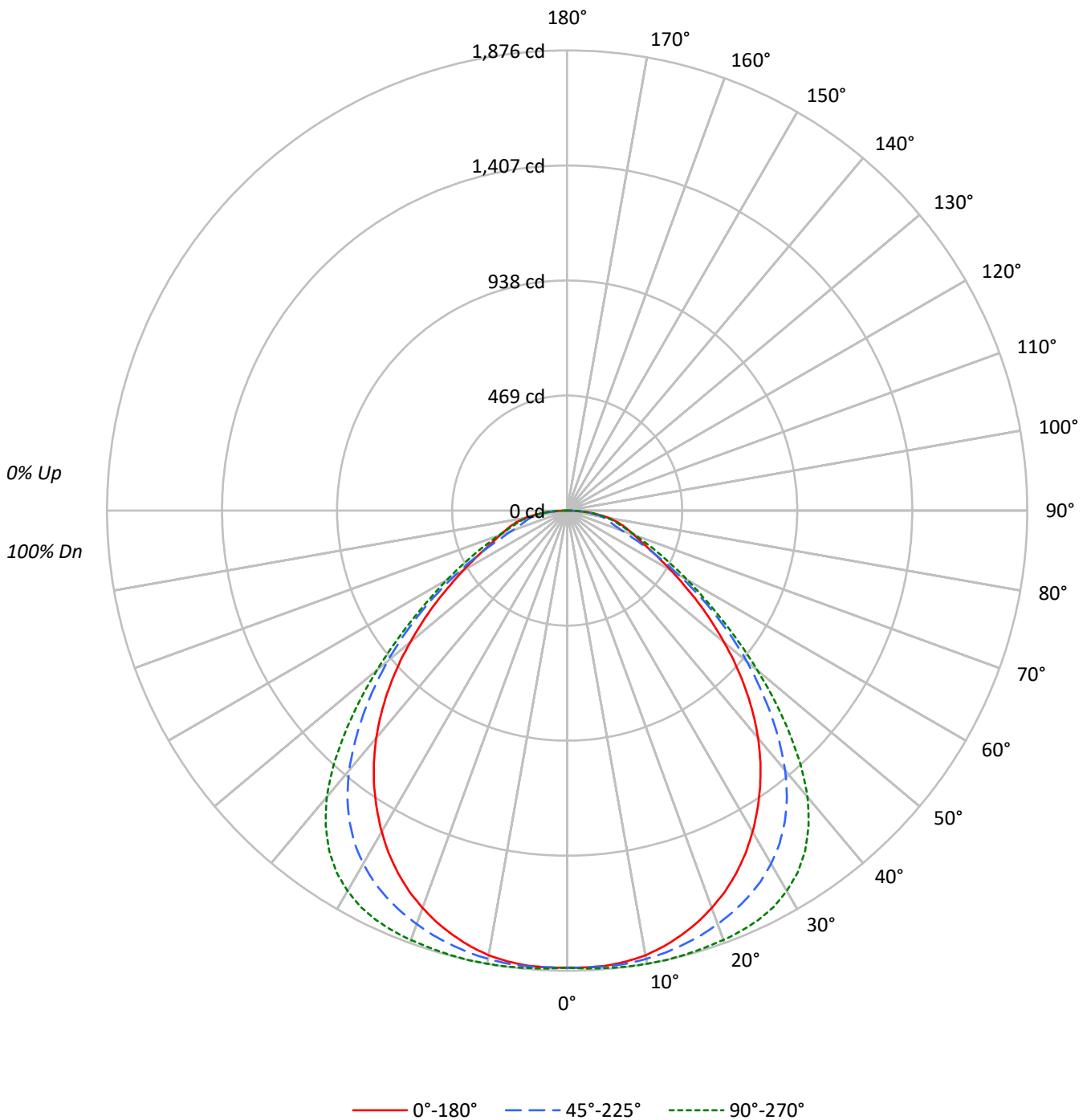
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4683.6 lumens
Efficiency: 74.3%
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.35
Luminous Opening: Rectangular (W 1.79' x L: 1.81' 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	89	89	89	89	86	86	86	86	83	83	83	79	79	79	76	76	76	74
1	82	78	75	73	80	77	74	71	73	71	69	71	69	67	68	66	65	64
2	75	69	64	60	73	68	63	60	65	62	58	63	60	57	61	58	56	54
3	69	61	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	50	46	43	49	45	42	41
5	58	49	43	38	57	49	43	38	47	42	38	46	41	37	44	40	37	36
6	54	45	38	34	53	44	38	34	43	37	33	41	37	33	40	36	33	31
7	50	41	34	30	49	40	34	30	39	34	30	38	33	30	37	33	29	28
8	47	37	31	27	46	37	31	27	36	31	27	35	30	27	34	30	26	25
9	44	34	28	24	43	34	28	24	33	28	24	32	27	24	31	27	24	23
10	41	32	26	22	40	31	26	22	31	26	22	30	25	22	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6193	6193	6193
5°	6213	6223	6247
10°	6214	6265	6332
15°	6171	6305	6446
20°	6099	6346	6590
25°	5982	6386	6756
30°	5804	6383	6875
35°	5568	6278	6866
40°	5255	6001	6618
45°	4837	5524	6022
50°	4318	4939	5228
55°	3767	4254	4428
60°	3258	3497	3763
65°	2887	2792	3241
70°	2809	2313	2867
75°	3018	2325	2838
80°	3293	2718	3101
85°	3509	3051	3318



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	177.8	3.8	2.8	0°	1863	1863	1863	1863	1863	
10°-20°	517.7	11.1	8.2	5°	1862	1862	1865	1868	1872	177
20°-30°	800.6	17.1	12.7	15°	1793	1803	1832	1860	1873	506
30°-40°	957.2	20.4	15.2	25°	1631	1663	1741	1814	1842	750
40°-50°	894.5	19.1	14.2	35°	1372	1422	1547	1650	1692	856
50°-60°	648.2	13.8	10.3	45°	1029	1076	1175	1249	1281	791
60°-70°	380.0	8.1	6.0	55°	650	682	734	763	764	584
70°-80°	217.7	4.6	3.5	65°	367	370	355	389	412	372
80°-90°	89.8	1.9	1.4	75°	235	209	181	198	221	246
90°-100°	0.0	0.0	0.0	85°	92	93	80	82	87	91
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	6
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°	1496.0	31.9	23.7	165°	0	0	0	0	0	0
0°-40°	2453.3	52.4	38.9	175°	0	0	0	0	0	0
0°-60°	3996.0	85.3	63.4	180°	0	0	0	0	0	0
0°-90°	4683.6	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°	4683.6	100.0	74.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863	1863	1863	1863	1863
2.5°	1864	1862	1864	1866	1869
5°	1862	1862	1865	1868	1872
7.5°	1854	1856	1863	1869	1875
10°	1841	1843	1856	1869	1876
12.5°	1820	1825	1846	1866	1876
15°	1793	1803	1832	1860	1873
17.5°	1762	1775	1815	1853	1868
20°	1724	1743	1794	1843	1863
22.5°	1681	1706	1770	1831	1855
25°	1631	1663	1741	1814	1842
27.5°	1575	1613	1706	1790	1822
30°	1512	1556	1663	1756	1791
32.5°	1444	1493	1611	1710	1749
35°	1372	1422	1547	1650	1692
37.5°	1294	1347	1472	1573	1617
40°	1211	1263	1383	1478	1525
42.5°	1122	1173	1282	1369	1410
45°	1029	1076	1175	1249	1281
47.5°	933	976	1065	1126	1147
50°	835	876	955	1003	1011
52.5°	741	777	844	881	884
55°	650	682	734	763	764
57.5°	565	593	627	654	657
60°	490	510	526	555	566
62.5°	423	436	435	467	483
65°	367	370	355	389	412
67.5°	323	316	289	322	349
70°	289	273	238	268	295
72.5°	261	239	203	229	254
75°	235	209	181	198	221
77.5°	206	181	164	171	194
80°	172	155	142	142	162
82.5°	134	127	114	113	126
85°	92	93	80	82	87
87.5°	45	53	44	46	46
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)