

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: 181P100

Luminaire Tested: **2GC-SS-232A**

Issue Date: 3/3/2020



**Test Information**

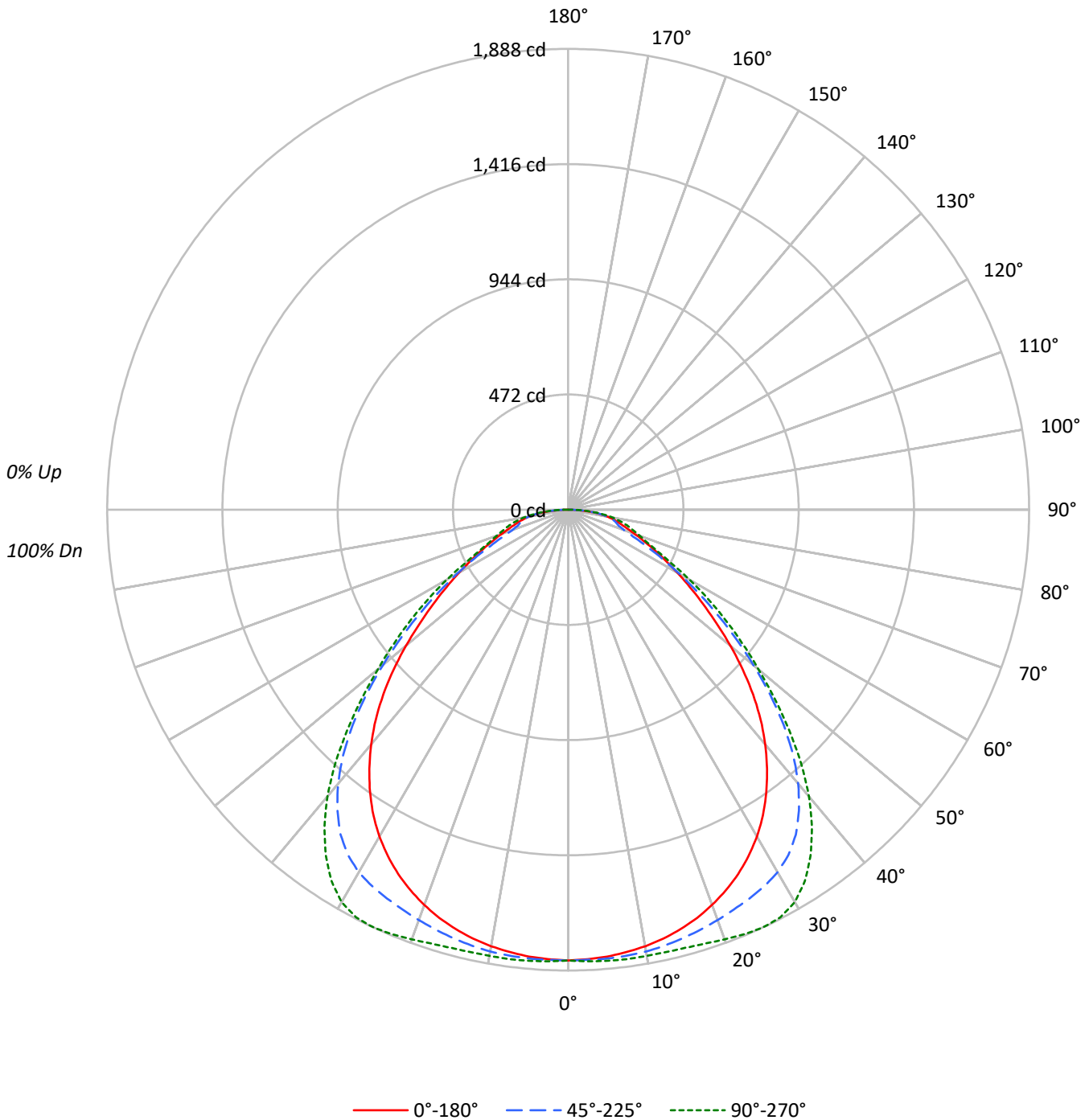
Test Method: LM-41-14  
Report Number: 181P100  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-SS-232A  
Description: 2 X 4 Recessed Silver Steel Convertible Body  
Luminaire with a .095 pattern 12 acrylic lens.  
Light Source: Two FO32T8/735 - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.16

**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 4795.5 lumens  
Efficiency: 85.6%  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.43 / 1.39  
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 57.8  
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	102	102	102	102	100	100	100	100	95	95	95		91	91	91		87	87	87	86
1	94	90	87	84	92	88	85	82	84	82	80		81	79	77		78	76	75	73
2	86	79	74	69	84	78	73	69	75	71	67		72	69	66		70	67	64	62
3	79	71	64	59	77	69	63	58	67	62	57		64	60	56		62	59	55	54
4	73	63	56	51	71	62	55	50	60	54	50		58	53	49		56	52	48	46
5	67	57	49	44	65	56	49	44	54	48	43		52	47	43		51	46	42	41
6	62	51	44	39	61	51	44	39	49	43	38		48	42	38		46	41	38	36
7	58	47	39	34	56	46	39	34	45	39	34		43	38	34		42	37	34	32
8	54	43	36	31	53	42	35	31	41	35	31		40	34	30		39	34	30	29
9	50	39	32	28	49	39	32	28	38	32	28		37	31	27		36	31	27	26
10	47	36	30	25	46	36	29	25	35	29	25		34	29	25		33	28	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2910	2910	2910
5°	2907	2920	2934
10°	2906	2941	2970
15°	2902	2964	3031
20°	2889	3000	3141
25°	2864	3055	3283
30°	2813	3121	3377
35°	2722	3126	3330
40°	2584	3016	3155
45°	2387	2781	2855
50°	2125	2427	2496
55°	1854	2036	2157
60°	1623	1658	1809
65°	1447	1309	1499
70°	1332	1120	1433
75°	1339	1236	1522
80°	1479	1488	1670
85°	1573	1663	1772



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	175.9	3.7	3.1	0°	1847	1847	1847	1847	1847	
10°-20°	514.4	10.7	9.2	5°	1838	1838	1846	1852	1855	175
20°-30°	812.4	16.9	14.5	15°	1779	1791	1817	1845	1858	502
30°-40°	991.6	20.7	17.7	25°	1647	1673	1757	1852	1888	758
40°-50°	927.7	19.3	16.6	35°	1415	1477	1625	1705	1731	882
50°-60°	664.5	13.9	11.9	45°	1071	1136	1248	1275	1281	822
60°-70°	381.5	8.0	6.8	55°	675	719	741	770	785	608
70°-80°	229.3	4.8	4.1	65°	388	362	351	387	402	389
80°-90°	98.2	2.0	1.8	75°	220	206	203	221	250	235
90°-100°	0.0	0.0	0.0	85°	87	92	92	103	98	86
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°	1502.7	31.3	26.8	165°	0	0	0	0	0	0
0°-40°	2494.3	52.0	44.5	175°	0	0	0	0	0	0
0°-60°	4086.5	85.2	73.0	180°	0	0	0	0	0	0
0°-90°	4795.5	100.0	85.6							
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°	4795.5	100.0	85.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1847	1847	1847	1847	1847
2.5°	1843	1843	1846	1850	1852
5°	1838	1838	1846	1852	1855
7.5°	1828	1832	1843	1852	1857
10°	1816	1822	1838	1850	1856
12.5°	1800	1808	1829	1848	1856
15°	1779	1791	1817	1845	1858
17.5°	1754	1768	1804	1844	1864
20°	1723	1741	1789	1847	1873
22.5°	1688	1709	1773	1851	1883
25°	1647	1673	1757	1852	1888
27.5°	1600	1632	1739	1844	1882
30°	1546	1586	1715	1821	1856
32.5°	1485	1535	1678	1775	1804
35°	1415	1477	1625	1705	1731
37.5°	1338	1409	1553	1617	1640
40°	1256	1328	1466	1515	1534
42.5°	1167	1236	1364	1401	1413
45°	1071	1136	1248	1275	1281
47.5°	970	1032	1121	1143	1147
50°	867	927	990	1009	1018
52.5°	766	823	863	884	898
55°	675	719	741	770	785
57.5°	591	617	628	664	677
60°	515	522	526	561	574
62.5°	447	435	433	466	477
65°	388	362	351	387	402
67.5°	335	304	288	328	350
70°	289	263	243	286	311
72.5°	251	232	216	251	279
75°	220	206	203	221	250
77.5°	193	180	188	195	219
80°	163	153	164	170	184
82.5°	127	123	130	141	143
85°	87	92	92	103	98
87.5°	44	51	49	57	51
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)