

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: 181P101

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 181P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-SS-232A
Description: 2 X 4 Recessed Air Supply Silver Steel Convertible
Body Luminaire with .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

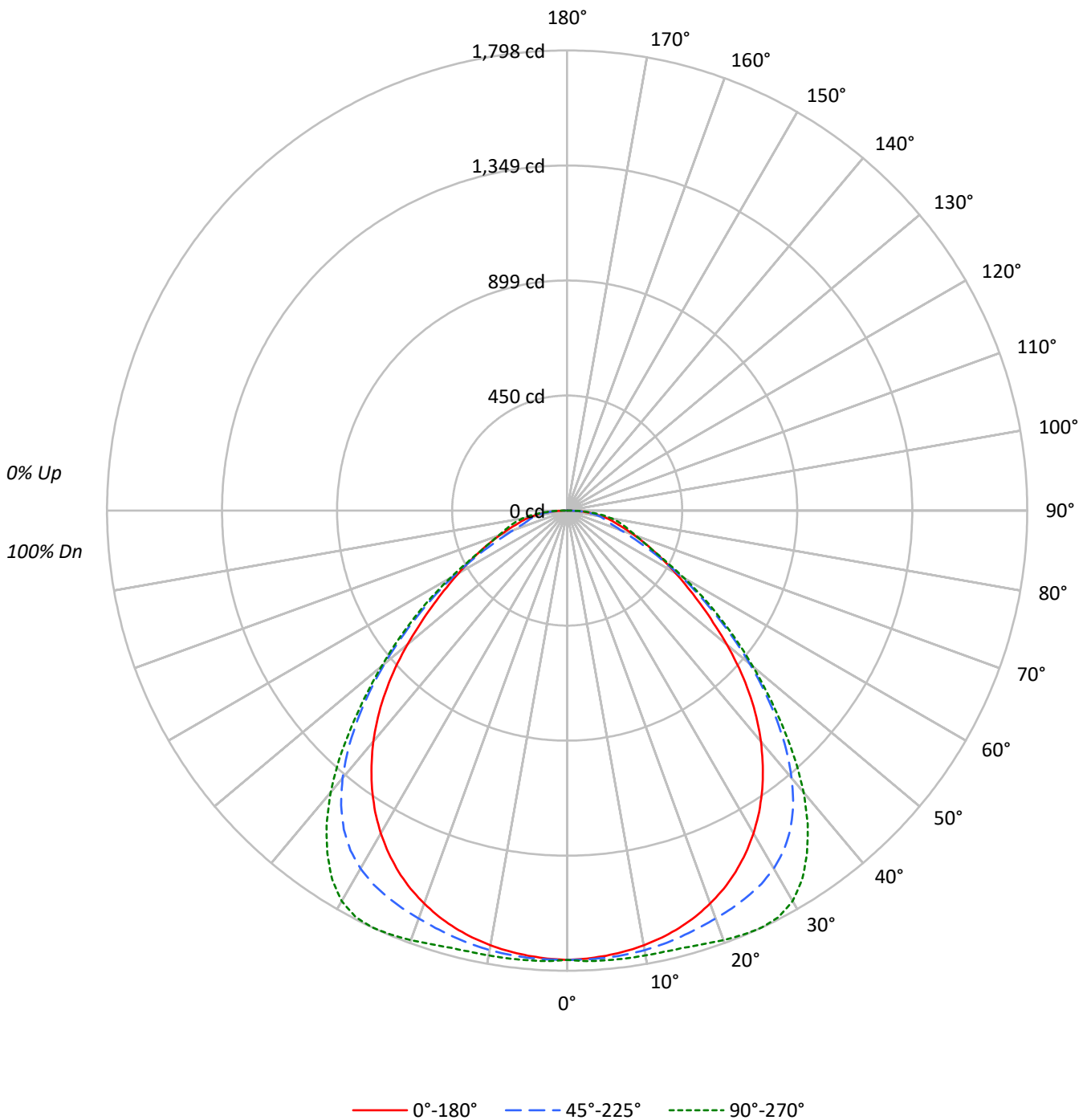
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4508.3 lumens
Efficiency: 80.5%
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.42 / 1.38
Luminous Opening: Rectangular (W 1.68' x L: 3.71' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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	96	96	96	96	94	94	94	94	89	89	89		86	86	86		82	82	82	81
1	88	85	82	79	86	83	80	77	79	77	75		76	74	73		73	72	70	69
2	81	75	70	65	79	73	69	65	71	67	63		68	65	62		66	63	60	59
3	74	66	60	55	72	65	60	55	63	58	54		61	57	53		59	55	52	50
4	68	59	53	48	67	58	52	47	56	51	47		55	50	46		53	49	45	44
5	63	53	47	42	62	53	46	41	51	45	41		49	44	40		48	43	40	38
6	59	48	41	37	57	48	41	36	46	40	36		45	40	36		44	39	35	34
7	54	44	37	32	53	43	37	32	42	36	32		41	36	32		40	35	32	30
8	51	40	34	29	49	40	33	29	39	33	29		38	32	29		37	32	29	27
9	47	37	31	26	46	37	30	26	36	30	26		35	30	26		34	29	26	24
10	44	34	28	24	43	34	28	24	33	28	24		32	27	24		32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3039	3039	3039
5°	3033	3047	3065
10°	3032	3065	3102
15°	3026	3087	3168
20°	3010	3124	3290
25°	2975	3180	3434
30°	2910	3228	3521
35°	2808	3214	3452
40°	2662	3084	3247
45°	2460	2837	2913
50°	2192	2507	2550
55°	1916	2136	2197
60°	1696	1765	1824
65°	1528	1401	1528
70°	1402	1123	1442
75°	1351	1077	1545
80°	1465	1296	1754
85°	1589	1509	1966



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	167.1	3.7	3.0	0°	1756	1756	1756	1756	1756	
10°-20°	488.3	10.8	8.7	5°	1746	1748	1754	1757	1764	166
20°-30°	769.3	17.1	13.7	15°	1689	1699	1723	1751	1768	476
30°-40°	931.7	20.7	16.6	25°	1558	1580	1665	1756	1798	716
40°-50°	865.8	19.2	15.5	35°	1329	1385	1521	1606	1634	829
50°-60°	623.4	13.8	11.1	45°	1005	1070	1159	1181	1190	772
60°-70°	365.9	8.1	6.5	55°	635	672	708	714	728	573
70°-80°	210.3	4.7	3.8	65°	373	352	342	377	373	373
80°-90°	86.6	1.9	1.5	75°	202	192	161	217	231	218
90°-100°	0.0	0.0	0.0	85°	80	75	76	93	99	79
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°	1424.7	31.6	25.4	165°	0	0	0	0	0	0
0°-40°	2356.3	52.3	42.1	175°	0	0	0	0	0	0
0°-60°	3845.5	85.3	68.7	180°	0	0	0	0	0	0
0°-90°	4508.3	100.0	80.5							
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°	4508.3	100.0	80.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756	1756	1756	1756	1756
2.5°	1752	1753	1755	1756	1762
5°	1746	1748	1754	1757	1764
7.5°	1737	1741	1750	1757	1765
10°	1725	1730	1744	1755	1765
12.5°	1709	1716	1735	1752	1765
15°	1689	1699	1723	1751	1768
17.5°	1664	1677	1710	1752	1776
20°	1634	1649	1696	1756	1786
22.5°	1599	1617	1682	1758	1794
25°	1558	1580	1665	1756	1798
27.5°	1510	1539	1644	1746	1790
30°	1456	1493	1615	1721	1762
32.5°	1396	1442	1575	1674	1709
35°	1329	1385	1521	1606	1634
37.5°	1256	1319	1451	1520	1544
40°	1178	1245	1365	1420	1437
42.5°	1095	1161	1267	1306	1318
45°	1005	1070	1159	1181	1190
47.5°	911	972	1046	1053	1065
50°	814	872	931	931	947
52.5°	720	771	817	818	836
55°	635	672	708	714	728
57.5°	558	577	606	618	625
60°	490	491	510	527	527
62.5°	428	415	421	445	441
65°	373	352	342	377	373
67.5°	323	300	275	325	322
70°	277	258	222	284	285
72.5°	237	223	185	248	256
75°	202	192	161	217	231
77.5°	175	163	146	186	205
80°	147	133	130	157	176
82.5°	115	104	107	128	141
85°	80	75	76	93	99
87.5°	42	43	40	51	54
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)