

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: 108P121

Luminaire Tested: **2GC-SS-240A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P121
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-SS-240A
Description: 2 X 4 Recessed Troffer with a Silver Steel body,
white powder painted end plates and a .095
pattern 12 acrylic lens.
Light Source: Two-F40SXL/SP35 - 3400 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

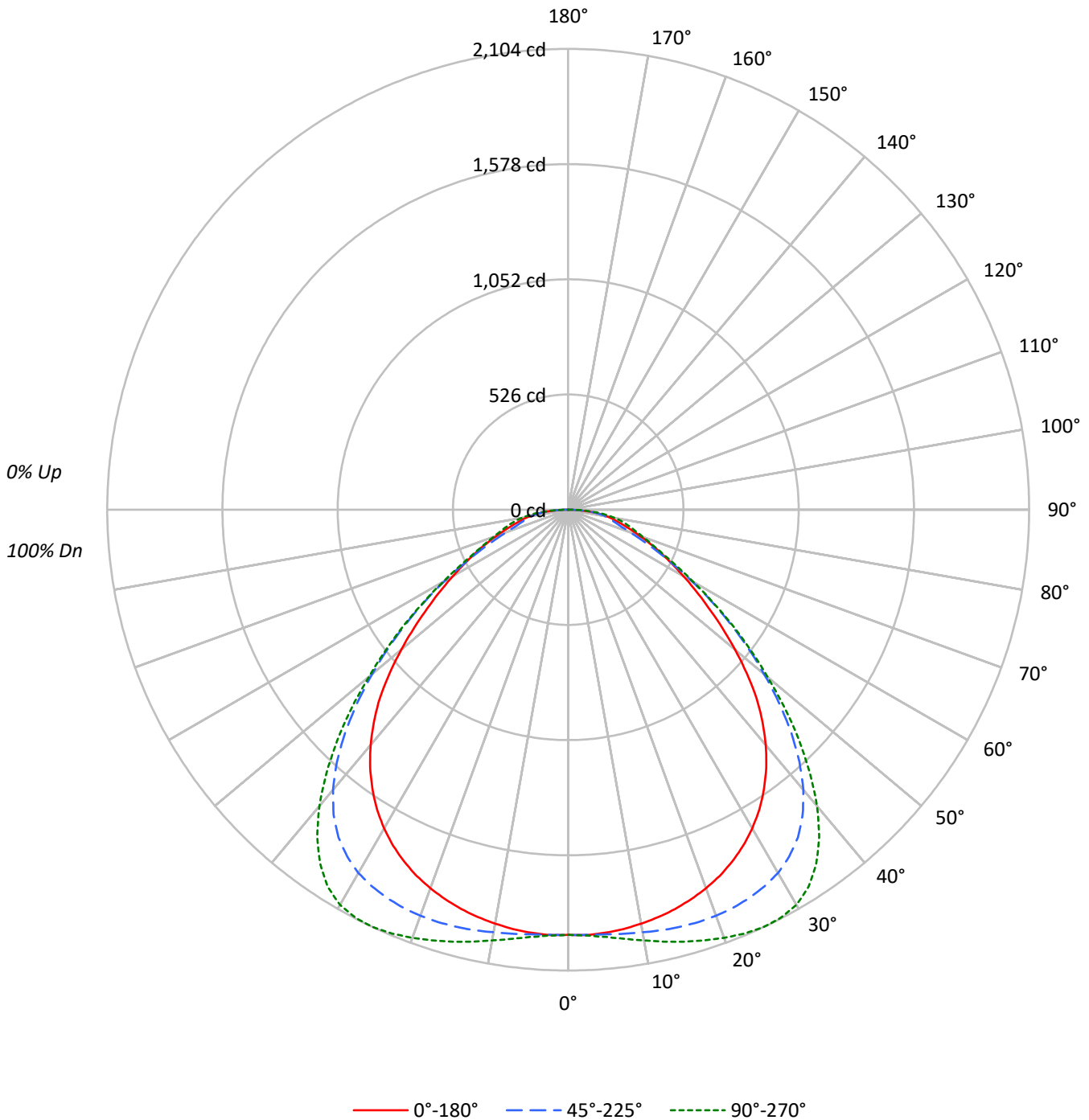
Summary

Lumens per Lamp: 3400 (2 lamps)
Luminaire Lumens: 5449.9 lumens
Efficiency: 80.1%
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.5 / 1.44
Luminous Opening: Rectangular (W 1.79' x L: 3.85' x H: 0')
CIE Type: Direct

Input Watts (W): 86.3
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	95	95	95	95	93	93	93	93	89	89	89		85	85	85		82	82	82	80
1	88	84	81	78	86	82	79	77	79	77	74		76	74	72		73	71	70	68
2	80	74	69	65	78	73	68	64	70	66	62		67	64	61		65	62	60	58
3	74	66	59	55	72	64	59	54	62	57	53		60	56	52		58	54	51	50
4	68	59	52	47	66	58	51	46	56	50	46		54	49	45		52	48	45	43
5	62	53	46	41	61	52	45	40	50	44	40		48	43	39		47	43	39	37
6	58	47	41	36	56	47	40	35	45	39	35		44	39	35		43	38	35	33
7	54	43	36	32	52	42	36	31	41	35	31		40	35	31		39	34	31	29
8	50	39	33	28	49	39	33	28	38	32	28		37	32	28		36	31	28	26
9	47	36	30	25	46	36	30	25	35	29	25		34	29	25		33	28	25	24
10	44	33	27	23	43	33	27	23	32	27	23		31	26	23		31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3025	3025	3025
5°	3034	3045	3064
10°	3037	3101	3161
15°	3045	3182	3295
20°	3050	3273	3450
25°	3048	3364	3619
30°	3024	3447	3749
35°	2965	3477	3756
40°	2855	3398	3595
45°	2681	3172	3287
50°	2410	2830	2881
55°	2128	2443	2468
60°	1895	2026	2054
65°	1715	1641	1759
70°	1577	1363	1645
75°	1518	1319	1728
80°	1643	1553	1930
85°	1753	1788	2092



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	186.2	3.4	2.7	0°	1941	1941	1941	1941	1941	
10°-20°	557.2	10.2	8.2	5°	1939	1939	1946	1953	1958	184
20°-30°	897.6	16.5	13.2	15°	1887	1912	1972	2021	2042	533
30°-40°	1116.2	20.5	16.4	25°	1772	1832	1956	2062	2104	816
40°-50°	1068.7	19.6	15.7	35°	1558	1645	1827	1941	1974	972
50°-60°	781.9	14.3	11.5	45°	1216	1304	1439	1475	1491	931
60°-70°	463.6	8.5	6.8	55°	783	840	899	902	908	706
70°-80°	269.3	4.9	4.0	65°	465	444	445	473	477	464
80°-90°	109.3	2.0	1.6	75°	252	245	219	275	287	271
90°-100°	0.0	0.0	0.0	85°	98	96	100	115	117	98
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°	1641.0	30.1	24.1	165°	0	0	0	0	0	0
0°-40°	2757.2	50.6	40.5	175°	0	0	0	0	0	0
0°-60°	4607.8	84.5	67.8	180°	0	0	0	0	0	0
0°-90°	5449.9	100.0	80.1							
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°	5449.9	100.0	80.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941	1941	1941	1941	1941
2.5°	1944	1941	1943	1943	1946
5°	1939	1939	1946	1953	1958
7.5°	1931	1935	1953	1968	1976
10°	1919	1929	1959	1985	1997
12.5°	1905	1922	1967	2003	2020
15°	1887	1912	1972	2021	2042
17.5°	1865	1899	1974	2035	2062
20°	1839	1882	1973	2048	2080
22.5°	1809	1860	1967	2057	2095
25°	1772	1832	1956	2062	2104
27.5°	1730	1797	1939	2058	2101
30°	1680	1754	1915	2039	2083
32.5°	1624	1704	1878	2001	2042
35°	1558	1645	1827	1941	1974
37.5°	1485	1577	1758	1855	1882
40°	1403	1498	1670	1747	1767
42.5°	1312	1407	1562	1617	1634
45°	1216	1304	1439	1475	1491
47.5°	1105	1194	1305	1328	1341
50°	994	1079	1167	1178	1188
52.5°	886	960	1032	1036	1045
55°	783	840	899	902	908
57.5°	692	724	771	775	776
60°	608	617	650	657	659
62.5°	533	523	541	555	558
65°	465	444	445	473	477
67.5°	403	379	365	408	412
70°	346	326	299	358	361
72.5°	295	282	251	315	320
75°	252	245	219	275	287
77.5°	217	209	196	237	253
80°	183	172	173	199	215
82.5°	144	134	142	160	170
85°	98	96	100	115	117
87.5°	50	54	53	61	60
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)