

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: 226P118

Luminaire Tested: **RDI-SYM-254T5RP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 226P118
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RDI-SYM-254T5RP
Description: 1 X 4 Recessed Direct-Indirect Luminaire with one
center mounted curved acrylic diffuser with curved perf.
Light Source: Two - F54T5HO/830 - 5000 Lumens ea. - 54 Watts ea.
Ballast/Driver: Sylvania QT 2X54/120 PHO Electronic - L.O.B.F. = 104%

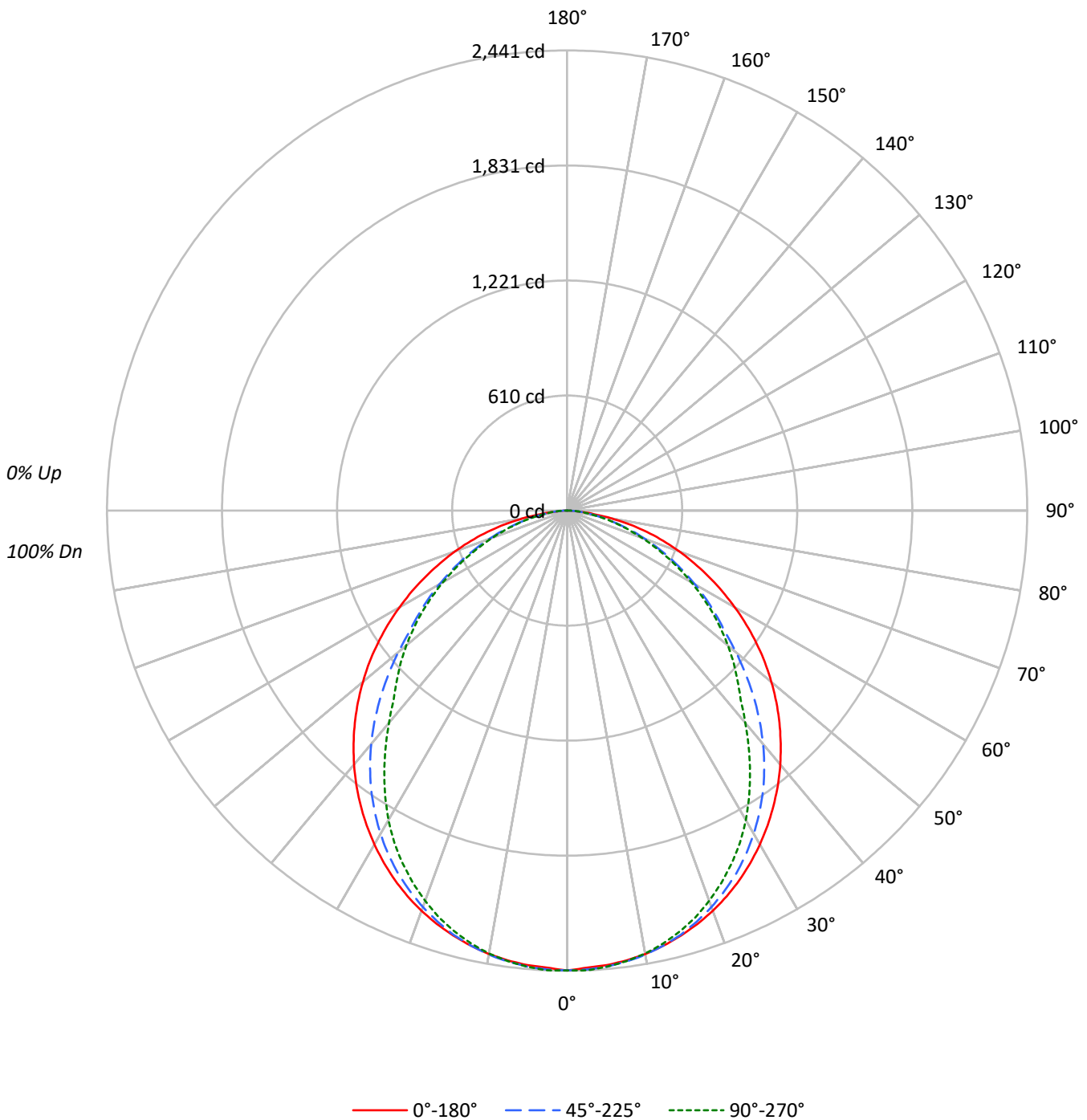
Summary

Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 6049.5 lumens
Efficiency: 60.5%
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 120
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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	60
1	66	64	61	59	65	62	60	58	60	58	56	57	56	54	55	54	53	52
2	61	56	52	49	59	55	51	48	53	50	47	51	48	46	49	47	45	44
3	55	49	45	41	54	48	44	40	47	43	40	45	42	39	43	41	38	37
4	51	44	39	35	50	43	38	35	42	37	34	40	37	34	39	36	33	32
5	47	39	34	30	46	39	34	30	37	33	30	36	32	29	35	32	29	28
6	43	36	30	27	42	35	30	26	34	30	26	33	29	26	32	29	26	25
7	40	32	27	24	39	32	27	24	31	27	23	30	26	23	29	26	23	22
8	38	30	25	21	37	29	24	21	28	24	21	28	24	21	27	23	21	20
9	35	27	22	19	34	27	22	19	26	22	19	26	22	19	25	21	19	18
10	33	25	20	17	32	25	20	17	24	20	17	24	20	17	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7480	7480	7480
5°	7450	7474	7477
10°	7439	7449	7430
15°	7410	7394	7337
20°	7372	7304	7189
25°	7319	7184	6987
30°	7241	7011	6714
35°	7150	6784	6331
40°	7042	6473	5889
45°	6909	6072	5547
50°	6746	5577	5315
55°	6555	5149	5020
60°	6299	4802	4667
65°	6008	4412	4245
70°	5658	3954	3775
75°	5190	3389	3282
80°	4203	2790	2755
85°	2533	2287	2357



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	230.4	3.8	2.3	0°	2439	2439	2439	2439	2439	
10°-20°	655.6	10.8	6.6	5°	2420	2423	2428	2430	2429	230
20°-30°	974.7	16.1	9.7	15°	2334	2334	2329	2318	2311	659
30°-40°	1128.2	18.6	11.3	25°	2163	2151	2123	2085	2065	996
40°-50°	1096.3	18.1	11.0	35°	1910	1886	1812	1729	1691	1194
50°-60°	923.1	15.3	9.2	45°	1593	1548	1400	1292	1279	1228
60°-70°	637.8	10.5	6.4	55°	1226	1140	963	948	939	1095
70°-80°	324.3	5.4	3.2	65°	828	661	608	594	585	820
80°-90°	79.0	1.3	0.8	75°	438	290	286	280	277	461
90°-100°	0.0	0.0	0.0	85°	72	60	65	67	67	94
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	1860.7	30.8	18.6	165°	0	0	0	0	0	0
0°-40°	2989.0	49.4	29.9	175°	0	0	0	0	0	0
0°-60°	5008.4	82.8	50.1	180°	0	0	0	0	0	0
0°-90°	6049.5	100.0	60.5							
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°	6049.5	100.0	60.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2439	2439	2439	2439	2439
2.5°	2427	2430	2437	2441	2441
5°	2420	2423	2428	2430	2429
7.5°	2407	2410	2413	2412	2411
10°	2389	2390	2392	2387	2386
12.5°	2364	2365	2363	2357	2352
15°	2334	2334	2329	2318	2311
17.5°	2299	2296	2286	2271	2262
20°	2259	2254	2238	2217	2203
22.5°	2214	2205	2183	2154	2137
25°	2163	2151	2123	2085	2065
27.5°	2106	2092	2055	2009	1986
30°	2045	2028	1980	1926	1896
32.5°	1979	1959	1899	1831	1796
35°	1910	1886	1812	1729	1691
37.5°	1836	1807	1718	1623	1582
40°	1759	1725	1617	1512	1471
42.5°	1677	1639	1511	1401	1362
45°	1593	1548	1400	1292	1279
47.5°	1505	1452	1285	1209	1198
50°	1414	1353	1169	1125	1114
52.5°	1322	1249	1054	1037	1027
55°	1226	1140	963	948	939
57.5°	1128	1024	873	858	850
60°	1027	904	783	769	761
62.5°	928	782	695	681	673
65°	828	661	608	594	585
67.5°	729	545	523	510	501
70°	631	453	441	428	421
72.5°	535	368	361	351	346
75°	438	290	286	280	277
77.5°	340	220	217	216	213
80°	238	157	158	157	156
82.5°	143	103	107	107	106
85°	72	60	65	67	67
87.5°	24	28	34	34	33
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)