

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: 239p113

Luminaire Tested: **2RDI-254T5RP-UNV-L5835-TU-B254PUNVE-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 239p113
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDI-254T5RP-UNV-L5835-TU-B254PUNVE-U
Description: 2' x 4' 2 LAMP T5HO CENTER-MOUNT RECESSED DIRECT/ INDIRECT
LUMINAIRE WITH PERF. LENS AND COATED PLASTIC INLAY
Light Source: TWO - PHILIPS - F54T5/841 - 4400 LUMENS - 54 WATTS
Ballast/Driver: ACCUSTART B254PUNV-D

Summary

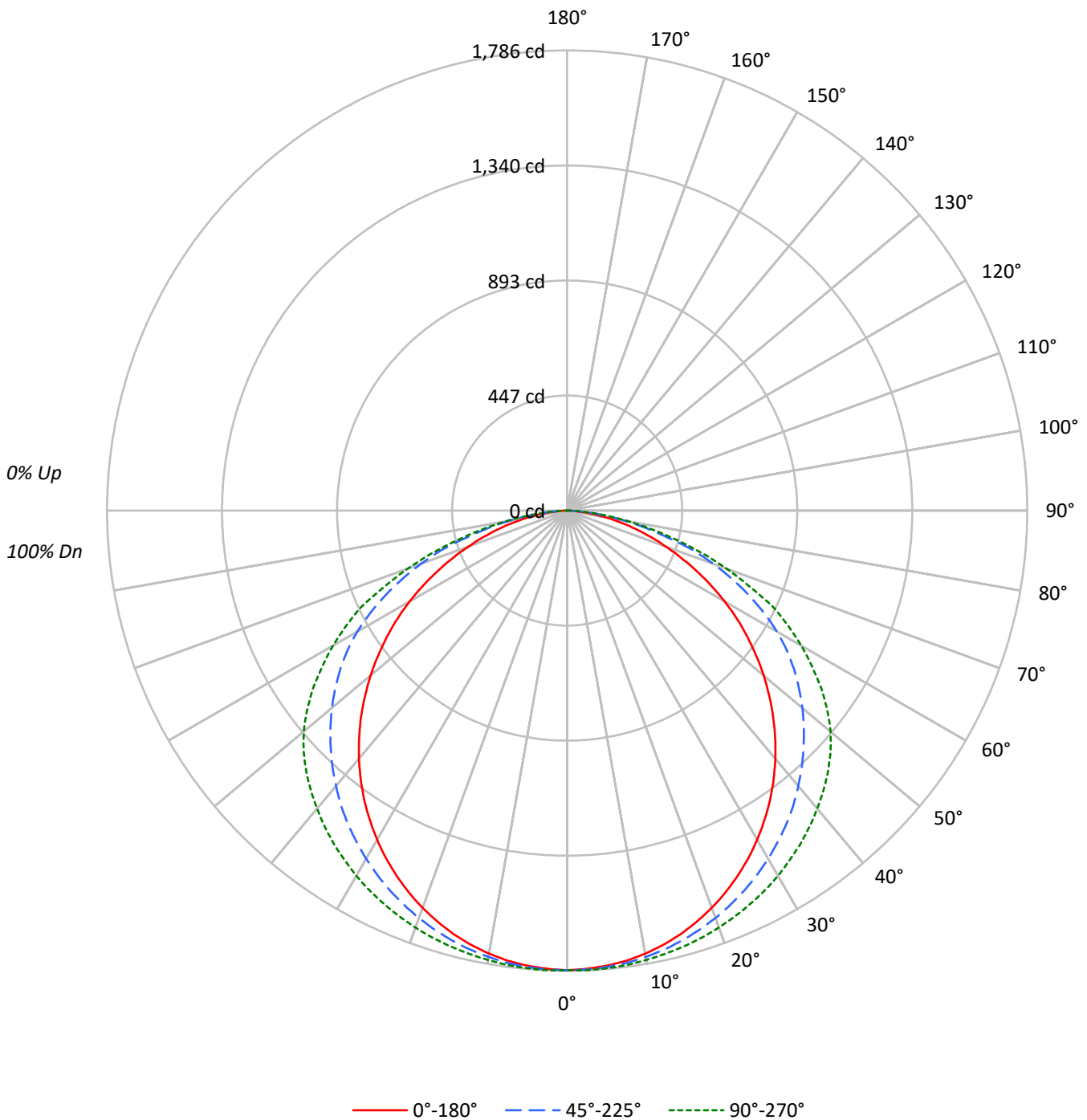
Lumens per Lamp: 4400 (2 lamps)
Luminaire Lumens: 5514.3 lumens
Efficiency: 62.7%
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 106
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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	68	65	62	60	66	63	61	59	61	59	57	58	57	55	56	55	53	52
2	62	56	52	48	60	55	51	48	53	49	47	51	48	45	49	47	44	43
3	56	49	44	40	54	48	43	39	46	42	39	45	41	38	43	40	37	36
4	51	43	38	33	50	43	37	33	41	36	33	39	36	32	38	35	32	30
5	47	39	33	29	46	38	33	28	37	32	28	35	31	28	34	30	28	26
6	43	35	29	25	42	34	29	25	33	28	25	32	28	24	31	27	24	23
7	40	31	26	22	39	31	26	22	30	25	22	29	25	21	28	24	21	20
8	37	29	23	19	36	28	23	19	27	23	19	27	22	19	26	22	19	18
9	35	26	21	17	34	26	21	17	25	20	17	24	20	17	24	20	17	16
10	33	24	19	16	32	24	19	16	23	19	16	23	18	16	22	18	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2558	2558	2558
5°	2552	2559	2566
10°	2542	2561	2579
15°	2527	2564	2599
20°	2504	2568	2628
25°	2476	2574	2664
30°	2442	2583	2710
35°	2403	2598	2764
40°	2353	2613	2826
45°	2293	2632	2904
50°	2222	2659	2978
55°	2135	2687	3010
60°	2025	2699	3011
65°	1880	2640	2986
70°	1706	2524	2759
75°	1518	2222	2421
80°	1272	1883	2007
85°	872	1333	1398



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	169.1	3.1	1.9	0°	1784	1784	1784	1784	1784	
10°-20°	487.6	8.8	5.5	5°	1773	1774	1778	1782	1783	168
20°-30°	749.8	13.6	8.5	15°	1702	1708	1727	1745	1751	480
30°-40°	926.0	16.8	10.5	25°	1565	1583	1627	1669	1684	721
40°-50°	995.4	18.1	11.3	35°	1373	1407	1484	1552	1579	858
50°-60°	939.5	17.0	10.7	45°	1131	1188	1298	1393	1432	872
60°-70°	739.2	13.4	8.4	55°	854	935	1075	1173	1204	763
70°-80°	412.7	7.5	4.7	65°	554	657	778	847	880	549
80°-90°	94.9	1.7	1.1	75°	274	359	401	434	437	291
90°-100°	0.0	0.0	0.0	85°	53	71	81	84	85	67
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1406.6	25.5	16.0							
0°-40°	2332.6	42.3	26.5							
0°-60°	4267.5	77.4	48.5							
0°-90°	5514.3	100.0	62.7							
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°	5514.3	100.0	62.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784	1784	1784	1784	1784
2.5°	1780	1779	1783	1785	1786
5°	1773	1774	1778	1782	1783
7.5°	1762	1764	1771	1777	1779
10°	1746	1749	1759	1769	1771
12.5°	1726	1730	1745	1758	1762
15°	1702	1708	1727	1745	1751
17.5°	1673	1682	1706	1729	1738
20°	1641	1652	1683	1711	1722
22.5°	1605	1619	1656	1691	1704
25°	1565	1583	1627	1669	1684
27.5°	1522	1543	1595	1643	1662
30°	1475	1501	1560	1615	1637
32.5°	1425	1455	1523	1584	1608
35°	1373	1407	1484	1552	1579
37.5°	1316	1355	1442	1517	1546
40°	1257	1302	1396	1478	1510
42.5°	1195	1246	1348	1437	1473
45°	1131	1188	1298	1393	1432
47.5°	1064	1127	1246	1347	1387
50°	996	1065	1192	1297	1335
52.5°	925	1001	1135	1240	1273
55°	854	935	1075	1173	1204
57.5°	781	868	1012	1098	1127
60°	706	799	941	1017	1050
62.5°	630	729	863	937	966
65°	554	657	778	847	880
67.5°	479	584	692	767	762
70°	407	513	602	637	658
72.5°	339	438	514	541	550
75°	274	359	401	434	437
77.5°	212	278	314	334	337
80°	154	198	228	241	243
82.5°	99	124	150	157	158
85°	53	71	81	84	85
87.5°	18	25	26	26	26
90°	0	0	0	0	0

(END OF REPORT)