

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: 223P125

Luminaire Tested: **2RDI-332RP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 223P125
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDI-332RP
Description: 2 X 4 Recessed Direct-Indirect Luminaire with a
center mounted curved acrylic diffuser and 51% curved perf.
Light Source: Three - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic L.O.B.F. = 89.4

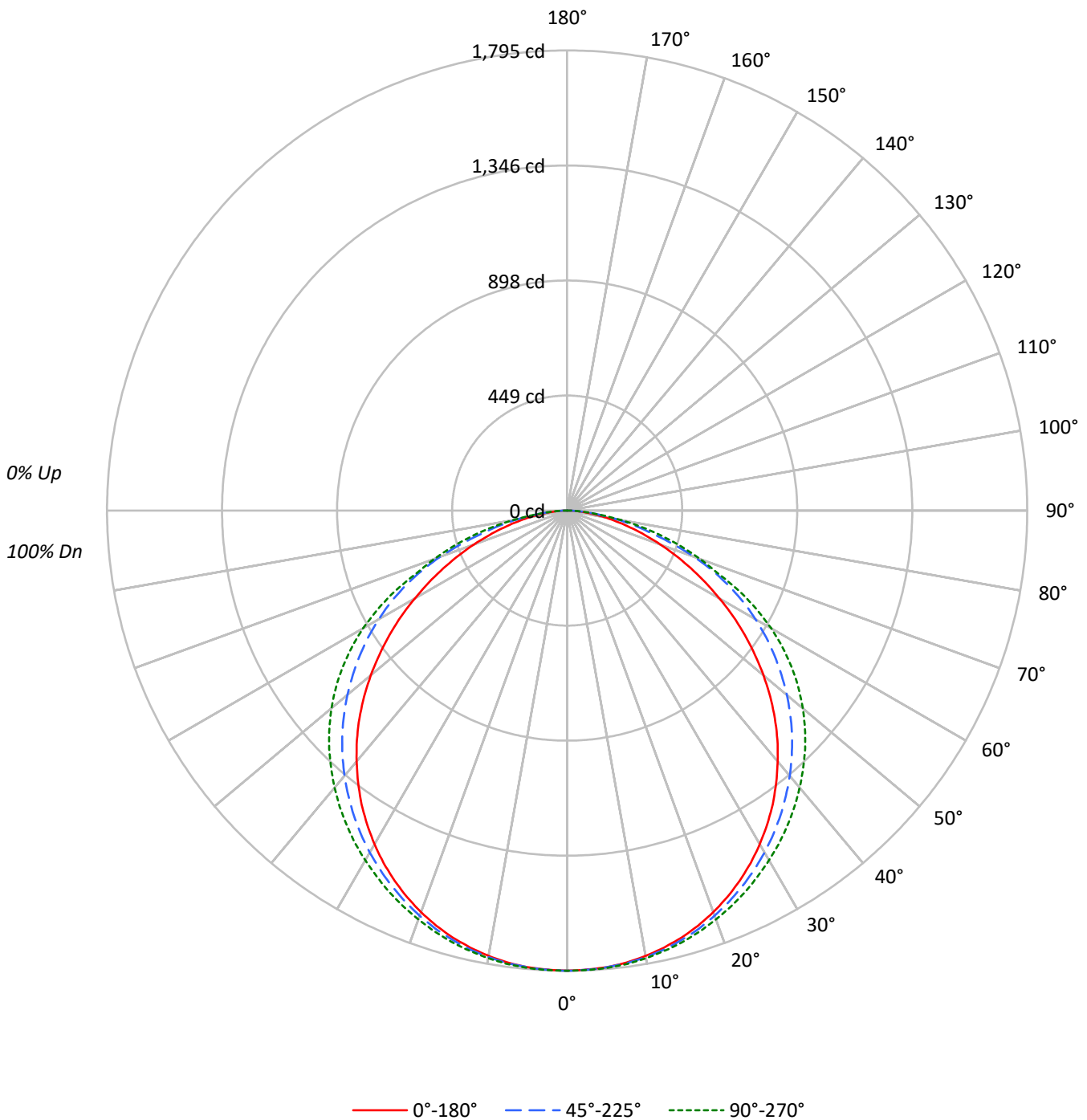
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5239.7 lumens
Efficiency: 62.4%
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.31 / 1.4
Luminous Opening: Rectangular (W 1.85' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 83.7
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	74	74	74	74	73	73	73	73	69	69	69	66	66	66	64	64	64	62
1	68	65	62	60	66	63	61	59	61	59	57	58	57	55	56	55	54	52
2	62	56	52	49	60	55	51	48	53	50	47	51	48	46	49	47	45	43
3	56	49	44	40	55	48	44	40	47	43	39	45	41	38	43	40	38	36
4	51	44	38	34	50	43	38	34	41	37	33	40	36	33	39	35	32	31
5	47	39	33	29	46	38	33	29	37	32	29	36	32	28	35	31	28	27
6	44	35	29	25	42	35	29	25	33	29	25	32	28	25	31	28	25	23
7	40	32	26	22	39	31	26	22	30	26	22	29	25	22	29	25	22	21
8	38	29	24	20	37	29	23	20	28	23	20	27	23	20	26	22	20	18
9	35	27	21	18	34	26	21	18	25	21	18	25	21	18	24	20	18	16
10	33	25	20	16	32	24	19	16	24	19	16	23	19	16	22	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2675	2675	2675
5°	2674	2674	2679
10°	2669	2677	2683
15°	2660	2673	2687
20°	2643	2667	2691
25°	2619	2659	2700
30°	2586	2650	2710
35°	2543	2639	2727
40°	2486	2628	2745
45°	2415	2615	2767
50°	2318	2594	2782
55°	2198	2567	2782
60°	2047	2530	2739
65°	1876	2461	2606
70°	1686	2296	2401
75°	1468	1963	2205
80°	1253	1690	1836
85°	1009	1248	1248



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	170.1	3.2	2.0	0°	1795	1795	1795	1795	1795	
10°-20°	489.3	9.3	5.8	5°	1788	1784	1788	1794	1791	170
20°-30°	745.6	14.2	8.9	15°	1724	1724	1733	1744	1742	486
30°-40°	907.1	17.3	10.8	25°	1593	1596	1617	1639	1642	734
40°-50°	952.5	18.2	11.3	35°	1398	1411	1451	1490	1499	874
50°-60°	870.2	16.6	10.4	45°	1146	1174	1241	1298	1313	882
60°-70°	658.9	12.6	7.8	55°	846	897	988	1055	1071	755
70°-80°	359.4	6.9	4.3	65°	532	603	698	737	739	528
80°-90°	86.6	1.7	1.0	75°	255	317	341	376	383	274
90°-100°	0.0	0.0	0.0	85°	59	64	73	74	73	66
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1404.9	26.8	16.7	165°	0	0	0	0	0	0
0°-40°	2312.1	44.1	27.5	175°	0	0	0	0	0	0
0°-60°	4134.8	78.9	49.2	180°	0	0	0	0	0	0
0°-90°	5239.7	100.0	62.4							
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°	5239.7	100.0	62.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1795	1795	1795	1795	1795
2.5°	1792	1789	1793	1798	1794
5°	1788	1784	1788	1794	1791
7.5°	1778	1774	1781	1786	1784
10°	1764	1761	1769	1776	1773
12.5°	1746	1744	1753	1762	1759
15°	1724	1724	1733	1744	1742
17.5°	1698	1698	1710	1722	1721
20°	1667	1668	1682	1697	1697
22.5°	1632	1634	1651	1670	1671
25°	1593	1596	1617	1639	1642
27.5°	1550	1555	1580	1605	1609
30°	1503	1510	1540	1569	1575
32.5°	1452	1462	1497	1531	1539
35°	1398	1411	1451	1490	1499
37.5°	1339	1356	1402	1446	1457
40°	1278	1298	1351	1400	1411
42.5°	1214	1237	1297	1350	1363
45°	1146	1174	1241	1298	1313
47.5°	1074	1108	1181	1243	1258
50°	1000	1039	1119	1185	1200
52.5°	923	969	1054	1122	1138
55°	846	897	988	1055	1071
57.5°	767	824	920	985	998
60°	687	751	849	909	919
62.5°	608	677	776	827	832
65°	532	603	698	737	739
67.5°	458	530	615	638	632
70°	387	458	527	540	551
72.5°	319	387	432	458	469
75°	255	317	341	376	383
77.5°	198	244	268	293	297
80°	146	171	197	212	214
82.5°	99	107	130	138	137
85°	59	64	73	74	73
87.5°	27	29	32	33	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)