

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: 223P124

Luminaire Tested: **2RDI-132RP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 223P124
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDI-132RP
Description: 2 X 4 Recessed Direct-Indirect Luminaire with a
center mounted curved acrylic diffuser and 51% curved perf.
Light Source: One - FO32/735 - 2800 Lumens - 32 Watts
Ballast/Driver: Motorola M1-RN-T8-1LL-120 Electronic L.O.B.F. = 90.5

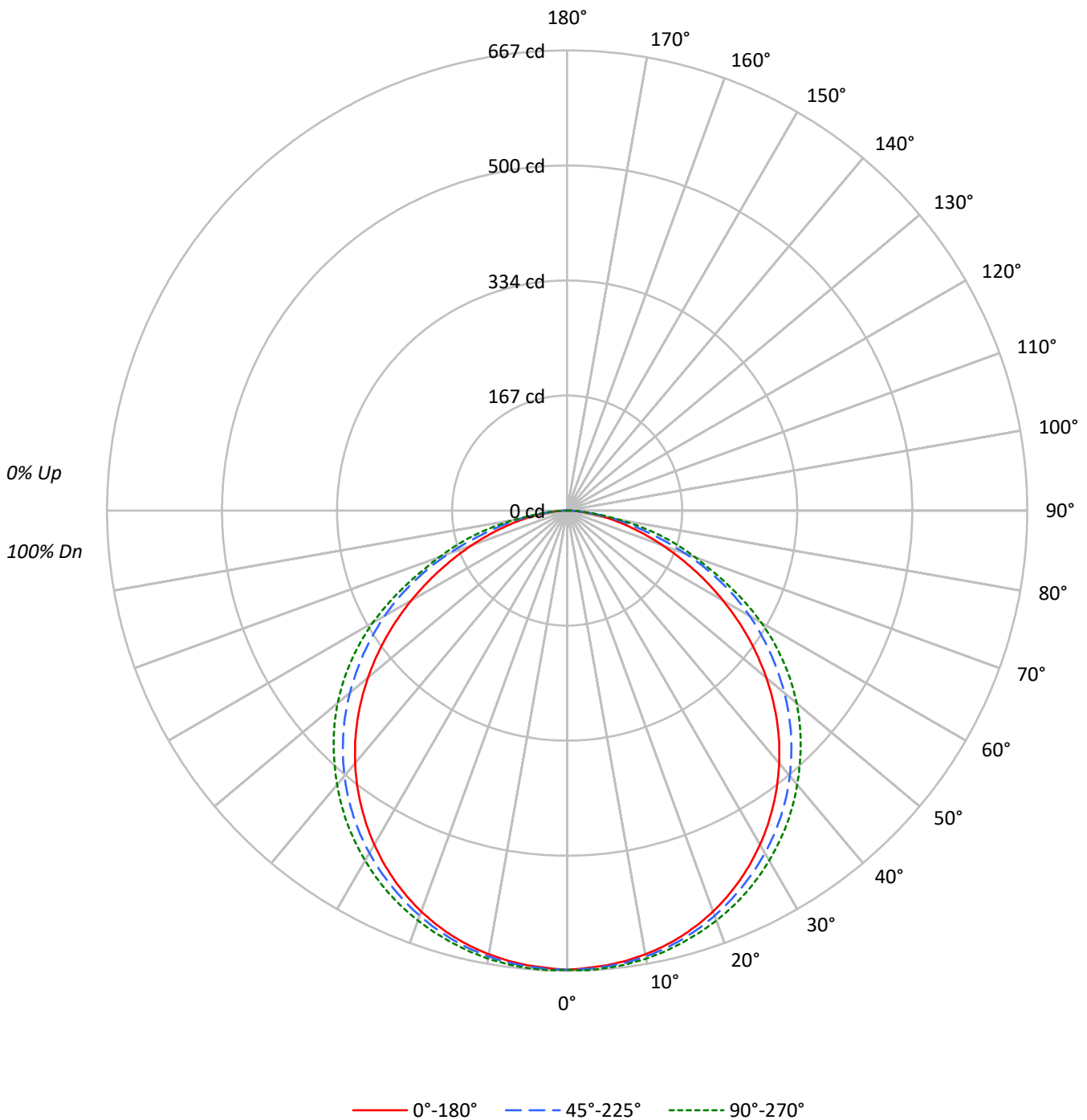
Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1925.6 lumens
Efficiency: 68.8%
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.4
Luminous Opening: Rectangular (W 1.85' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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

TEST NUMBER: 223P124
CATALOG NUMBER: 2RDI-132RP

Luminous Intensity Polar Plot





TEST NUMBER: 223P124
 CATALOG NUMBER: 2RDI-132RP

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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	75	72	69	66	73	70	67	65	67	65	63	64	63	61	62	60	59	58
2	68	62	58	54	66	61	57	53	59	55	52	56	53	51	54	52	50	48
3	62	55	49	45	60	54	48	44	52	47	43	50	46	43	48	45	42	40
4	57	48	42	38	55	48	42	37	46	41	37	44	40	36	43	39	36	34
5	52	43	37	32	51	42	37	32	41	36	32	40	35	32	38	34	31	30
6	48	39	33	28	47	38	32	28	37	32	28	36	31	28	35	31	27	26
7	45	35	29	25	43	35	29	25	34	28	25	33	28	24	32	27	24	23
8	41	32	26	22	40	32	26	22	31	26	22	30	25	22	29	25	22	20
9	39	29	24	20	38	29	24	20	28	23	20	28	23	20	27	23	20	18
10	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	992	992	992
5°	990	992	996
10°	988	993	998
15°	986	993	1000
20°	981	991	1003
25°	973	989	1006
30°	962	986	1008
35°	948	983	1010
40°	930	977	1009
45°	906	967	1009
50°	874	953	1007
55°	832	934	995
60°	778	910	969
65°	713	871	916
70°	641	796	858
75°	560	683	808
80°	480	595	668
85°	374	445	445



TEST NUMBER: 223P124
 CATALOG NUMBER: 2RDI-132RP

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	63.1	3.3	2.3	0°	666	666	666	666	666	
10°-20°	181.7	9.4	6.5	5°	662	662	663	665	666	63
20°-30°	277.3	14.4	9.9	15°	639	640	644	647	648	180
30°-40°	337.1	17.5	12.0	25°	592	594	601	609	612	273
40°-50°	352.0	18.3	12.6	35°	521	527	540	551	555	326
50°-60°	318.1	16.5	11.4	45°	430	440	459	473	479	331
60°-70°	236.7	12.3	8.5	55°	320	337	360	378	383	286
70°-80°	128.6	6.7	4.6	65°	202	223	247	257	260	201
80°-90°	31.0	1.6	1.1	75°	97	112	119	135	140	104
90°-100°	0.0	0.0	0.0	85°	22	23	26	26	26	25
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
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°	522.0	27.1	18.6	165°	0	0	0	0	0	0
0°-40°	859.2	44.6	30.7	175°	0	0	0	0	0	0
0°-60°	1529.3	79.4	54.6	180°	0	0	0	0	0	0
0°-90°	1925.6	100.0	68.8							
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°	1925.6	100.0	68.8							



TEST NUMBER: 223P124
 CATALOG NUMBER: 2RDI-132RP

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.7	665.7	665.7	665.7	665.7
2.5°	663.6	663.5	664.9	666.4	666.8
5°	661.6	661.7	663.3	664.9	665.6
7.5°	658.1	658.4	660.6	662.4	663.2
10°	653.1	653.6	656.3	658.7	659.5
12.5°	646.8	647.4	650.7	653.7	654.5
15°	639.0	639.8	643.5	647.1	648.1
17.5°	629.5	630.6	635.0	639.3	640.8
20°	618.5	619.7	625.1	630.3	632.4
22.5°	605.8	607.6	613.7	620.3	622.8
25°	591.7	593.9	601.3	609.0	611.9
27.5°	576.1	579.0	588.0	596.4	599.5
30°	559.2	562.7	573.3	582.7	585.8
32.5°	540.8	545.3	557.6	567.5	571.0
35°	521.2	526.6	540.4	551.0	555.1
37.5°	500.4	506.5	522.0	533.4	537.6
40°	478.1	485.3	502.2	514.5	518.8
42.5°	454.8	463.2	481.1	494.2	499.1
45°	429.9	439.9	459.1	473.1	478.7
47.5°	403.9	415.5	435.8	451.3	457.3
50°	377.0	390.0	411.1	428.2	434.3
52.5°	348.8	364.0	385.6	403.7	409.7
55°	320.1	336.8	359.6	377.6	383.1
57.5°	290.8	308.8	332.8	350.0	355.2
60°	261.2	280.5	305.4	320.7	325.1
62.5°	231.5	252.1	276.9	289.7	293.4
65°	202.1	223.2	246.9	257.0	259.7
67.5°	174.2	194.6	215.4	223.0	226.1
70°	147.1	166.6	182.8	190.2	197.0
72.5°	121.4	139.5	149.2	162.6	169.2
75°	97.3	112.5	118.6	134.9	140.3
77.5°	75.8	85.6	93.7	106.0	109.3
80°	55.9	59.2	69.3	76.7	77.8
82.5°	38.1	37.3	46.1	49.0	49.1
85°	21.9	22.7	26.0	26.4	26.0
87.5°	10.0	10.6	11.7	11.9	11.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: 223P124
CATALOG NUMBER: 2RDI-132RP

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)