

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: 226P116

Luminaire Tested: **RDI-SYM-2BX40RP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 226P116
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RDI-SYM-2BX40RP
Description: 1 X 2 Recessed Direct-Indirect Luminaire with one
center mounted curved acrylic diffuser with curved perf.
Light Source: Two - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: Sylvania QT 2X40/120 DL Electronic - L.O.B.F.= 96.3%

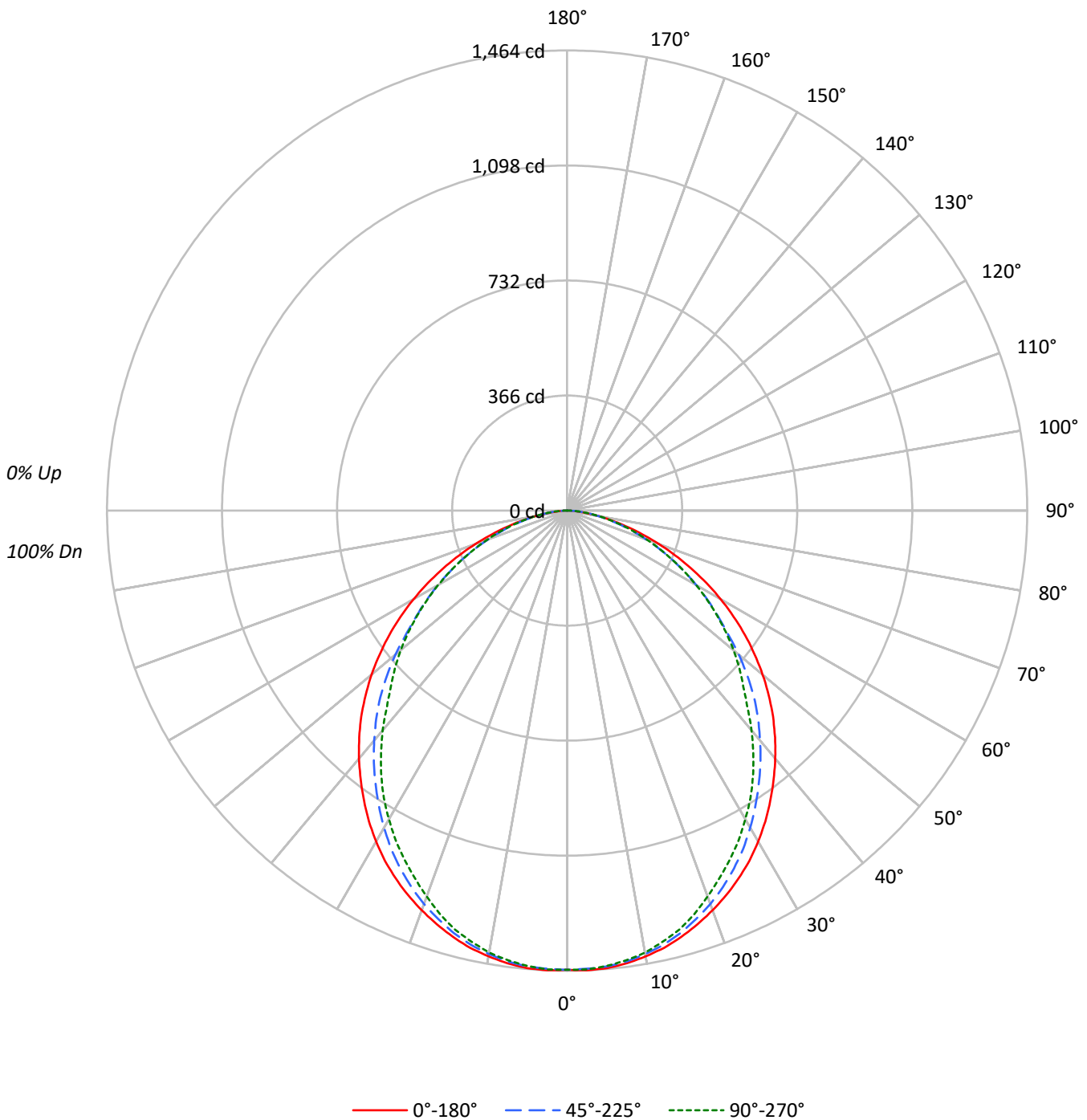
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 3599.1 lumens
Efficiency: 57.1%
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.16 / 1.28
Luminous Opening: Rectangular (W 0.87' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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: 226P116
CATALOG NUMBER: RDI-SYM-2BX40RP

Luminous Intensity Polar Plot





TEST NUMBER: 226P116

CATALOG NUMBER: RDI-SYM-2BX40RP

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	0														
RCR																																						
0	68	68	68	68	66	66	66	66	63	63	63	61	61	61	58	58	58	57						57														
1	63	60	58	56	61	59	57	55	56	55	53	54	53	51	52	51	50	49						49														
2	57	53	49	46	56	52	48	45	50	47	44	48	45	43	46	44	42	41						41														
3	52	47	42	39	51	46	42	38	44	40	38	42	39	37	41	38	36	35						35														
4	48	41	37	33	47	41	36	33	39	35	32	38	35	32	37	34	31	30						30														
5	44	37	32	29	43	37	32	28	35	31	28	34	31	28	33	30	28	26						26														
6	41	34	29	25	40	33	28	25	32	28	25	31	27	25	30	27	24	23						23														
7	38	31	26	22	37	30	26	22	29	25	22	28	25	22	28	24	22	21						21														
8	36	28	23	20	35	28	23	20	27	23	20	26	22	20	25	22	20	19						19														
9	33	26	21	18	32	25	21	18	25	21	18	24	20	18	24	20	18	17						17														
10	31	24	19	16	30	24	19	16	23	19	16	22	19	16	22	19	16	15						15														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9514	9514	9514
5°	9550	9517	9504
10°	9522	9475	9442
15°	9465	9384	9303
20°	9376	9230	9057
25°	9276	9024	8802
30°	9143	8760	8527
35°	8959	8450	8196
40°	8755	8118	7761
45°	8528	7745	7303
50°	8226	7223	7000
55°	7845	6641	6607
60°	7345	6186	6160
65°	6703	5670	5670
70°	5883	5083	5141
75°	4906	4453	4554
80°	3787	3750	3825
85°	2615	2989	3063



TEST NUMBER: 226P116

CATALOG NUMBER: RDI-SYM-2BX40RP

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	138.2	3.8	2.2	0°	1461	1461	1461	1461	1461	
10°-20°	391.8	10.9	6.2	5°	1461	1453	1456	1455	1454	139
20°-30°	578.4	16.1	9.2	15°	1404	1394	1392	1386	1380	396
30°-40°	669.7	18.6	10.6	25°	1291	1275	1256	1236	1225	595
40°-50°	654.3	18.2	10.4	35°	1127	1103	1063	1042	1031	705
50°-60°	548.2	15.2	8.7	45°	926	888	841	802	793	713
60°-70°	379.3	10.5	6.0	55°	691	647	585	582	582	617
70°-80°	192.0	5.3	3.0	65°	435	392	368	369	368	431
80°-90°	47.2	1.3	0.7	75°	195	172	177	180	181	210
90°-100°	0.0	0.0	0.0	85°	35	38	40	41	41	43
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1108.3	30.8	17.6	165°	0	0	0	0	0	0
0°-40°	1778.0	49.4	28.2	175°	0	0	0	0	0	0
0°-60°	2980.5	82.8	47.3	180°	0	0	0	0	0	0
0°-90°	3599.1	100.0	57.1							
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°	3599.1	100.0	57.1							



TEST NUMBER: 226P116

CATALOG NUMBER: RDI-SYM-2BX40RP

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461	1461	1461	1461	1461
2.5°	1464	1456	1459	1460	1461
5°	1461	1453	1456	1455	1454
7.5°	1453	1444	1447	1447	1443
10°	1440	1431	1433	1432	1428
12.5°	1425	1415	1415	1411	1405
15°	1404	1394	1392	1386	1380
17.5°	1380	1369	1363	1356	1346
20°	1353	1341	1332	1318	1307
22.5°	1324	1310	1296	1277	1266
25°	1291	1275	1256	1236	1225
27.5°	1256	1238	1213	1192	1182
30°	1216	1197	1165	1145	1134
32.5°	1173	1152	1115	1095	1085
35°	1127	1103	1063	1042	1031
37.5°	1079	1052	1010	987	973
40°	1030	1000	955	929	913
42.5°	979	945	899	867	849
45°	926	888	841	802	793
47.5°	870	830	778	746	743
50°	812	770	713	693	691
52.5°	752	708	645	638	637
55°	691	647	585	582	582
57.5°	628	584	530	527	528
60°	564	521	475	474	473
62.5°	500	457	421	420	420
65°	435	392	368	369	368
67.5°	371	327	316	319	318
70°	309	270	267	270	270
72.5°	250	220	220	223	224
75°	195	172	177	180	181
77.5°	146	131	137	139	140
80°	101	95	100	102	102
82.5°	64	63	67	69	69
85°	35	38	40	41	41
87.5°	15	16	19	20	20
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



TEST NUMBER: 226P116

CATALOG NUMBER: RDI-SYM-2BX40RP

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)