

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: 226P112

Luminaire Tested: **RDI-SYM-228T5RP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 226P112
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RDI-SYM-228T5RP
Description: 1 X 4 Recessed Direct-Indirect Luminaire with one
center mounted curved acrylic diffuser with curved perf.
Light Source: Two - F28T5/835 - 2900 Lumens ea. - 28 Watts ea.
Ballast/Driver: Magnetek BT5-228/120 Electronic - L.O.B.F. = 97.5%

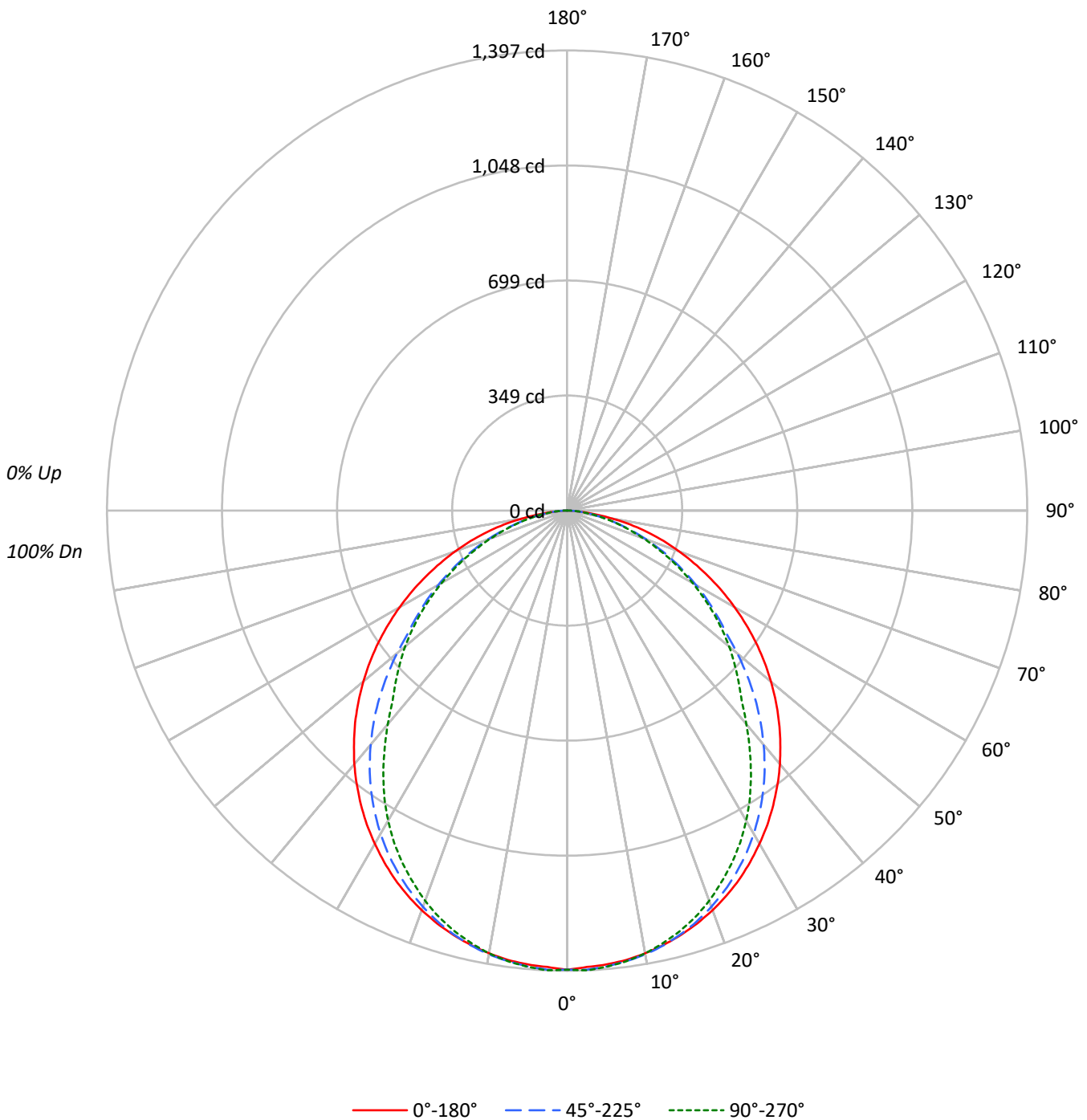
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3475.5 lumens
Efficiency: 59.9%
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.17 / 1.29
Luminous Opening: Rectangular (W 0.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 61
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	71	71	71	71	70	70	70	70	67	67	67	64	64	64	61	61	61	60
1	66	63	60	58	64	62	59	57	59	57	56	57	55	54	55	53	52	51
2	60	55	51	48	58	54	51	48	52	49	46	50	48	45	48	46	44	43
3	55	49	44	40	53	48	44	40	46	42	39	44	41	39	43	40	38	37
4	50	43	38	35	49	43	38	34	41	37	34	40	36	33	39	35	33	32
5	46	39	34	30	45	38	33	30	37	33	29	36	32	29	35	31	29	28
6	43	35	30	26	42	35	30	26	34	29	26	33	29	26	32	28	25	24
7	40	32	27	23	39	32	27	23	31	26	23	30	26	23	29	25	23	22
8	37	29	24	21	36	29	24	21	28	24	21	27	23	21	27	23	20	19
9	35	27	22	19	34	27	22	19	26	22	19	25	21	19	25	21	19	17
10	33	25	20	17	32	25	20	17	24	20	17	23	20	17	23	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4275	4275	4275
5°	4257	4276	4279
10°	4251	4260	4251
15°	4235	4229	4197
20°	4213	4177	4115
25°	4182	4108	3999
30°	4136	4012	3849
35°	4084	3886	3643
40°	4023	3715	3391
45°	3947	3500	3192
50°	3855	3216	3063
55°	3743	2967	2898
60°	3600	2772	2699
65°	3432	2554	2467
70°	3237	2295	2206
75°	2986	1979	1931
80°	2437	1642	1642
85°	1513	1337	1372



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	131.8	3.8	2.3	0°	1394	1394	1394	1394	1394	
10°-20°	375.0	10.8	6.5	5°	1383	1386	1389	1390	1390	131
20°-30°	557.6	16.0	9.6	15°	1334	1335	1332	1326	1322	376
30°-40°	646.7	18.6	11.1	25°	1236	1230	1214	1193	1182	569
40°-50°	629.5	18.1	10.9	35°	1091	1079	1038	994	973	682
50°-60°	531.0	15.3	9.2	45°	910	886	807	744	736	702
60°-70°	368.7	10.6	6.4	55°	700	655	555	546	542	625
70°-80°	188.9	5.4	3.3	65°	473	383	352	345	340	469
80°-90°	46.4	1.3	0.8	75°	252	168	167	165	163	265
90°-100°	0.0	0.0	0.0	85°	43	35	38	39	39	55
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°	1064.4	30.6	18.4	165°	0	0	0	0	0	0
0°-40°	1711.1	49.2	29.5	175°	0	0	0	0	0	0
0°-60°	2871.5	82.6	49.5	180°	0	0	0	0	0	0
0°-90°	3475.5	100.0	59.9							
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°	3475.5	100.0	59.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394	1394	1394	1394	1394
2.5°	1387	1391	1395	1396	1397
5°	1383	1386	1389	1390	1390
7.5°	1376	1378	1380	1380	1380
10°	1365	1367	1368	1366	1365
12.5°	1351	1352	1352	1348	1345
15°	1334	1335	1332	1326	1322
17.5°	1314	1314	1308	1300	1294
20°	1291	1289	1280	1268	1261
22.5°	1265	1261	1249	1232	1222
25°	1236	1230	1214	1193	1182
27.5°	1203	1197	1176	1151	1137
30°	1168	1160	1133	1103	1087
32.5°	1131	1121	1087	1051	1033
35°	1091	1079	1038	994	973
37.5°	1049	1034	985	934	910
40°	1005	987	928	871	847
42.5°	958	937	869	807	784
45°	910	886	807	744	736
47.5°	860	831	741	696	689
50°	808	775	674	647	642
52.5°	755	716	607	598	592
55°	700	655	555	546	542
57.5°	644	589	504	495	491
60°	587	522	452	444	440
62.5°	531	453	401	394	390
65°	473	383	352	345	340
67.5°	417	316	303	296	291
70°	361	262	256	250	246
72.5°	307	213	210	205	203
75°	252	168	167	165	163
77.5°	196	128	128	127	126
80°	138	92	93	93	93
82.5°	84	60	63	63	63
85°	43	35	38	39	39
87.5°	14	16	20	20	19
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)