

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: 226P117

Luminaire Tested: **TDI-SYM-T2BX40RP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 226P117
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RDI-SYM-T2BX40RP
Description: 1 X 4 Recessed Direct-Indirect Luminaire with one
center mounted curved acrylic diffuser with curved perf.
Light Source: Four - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: Sylvania QT 2X40/120 DL Electronic - L.O.B.F.= 96.3%

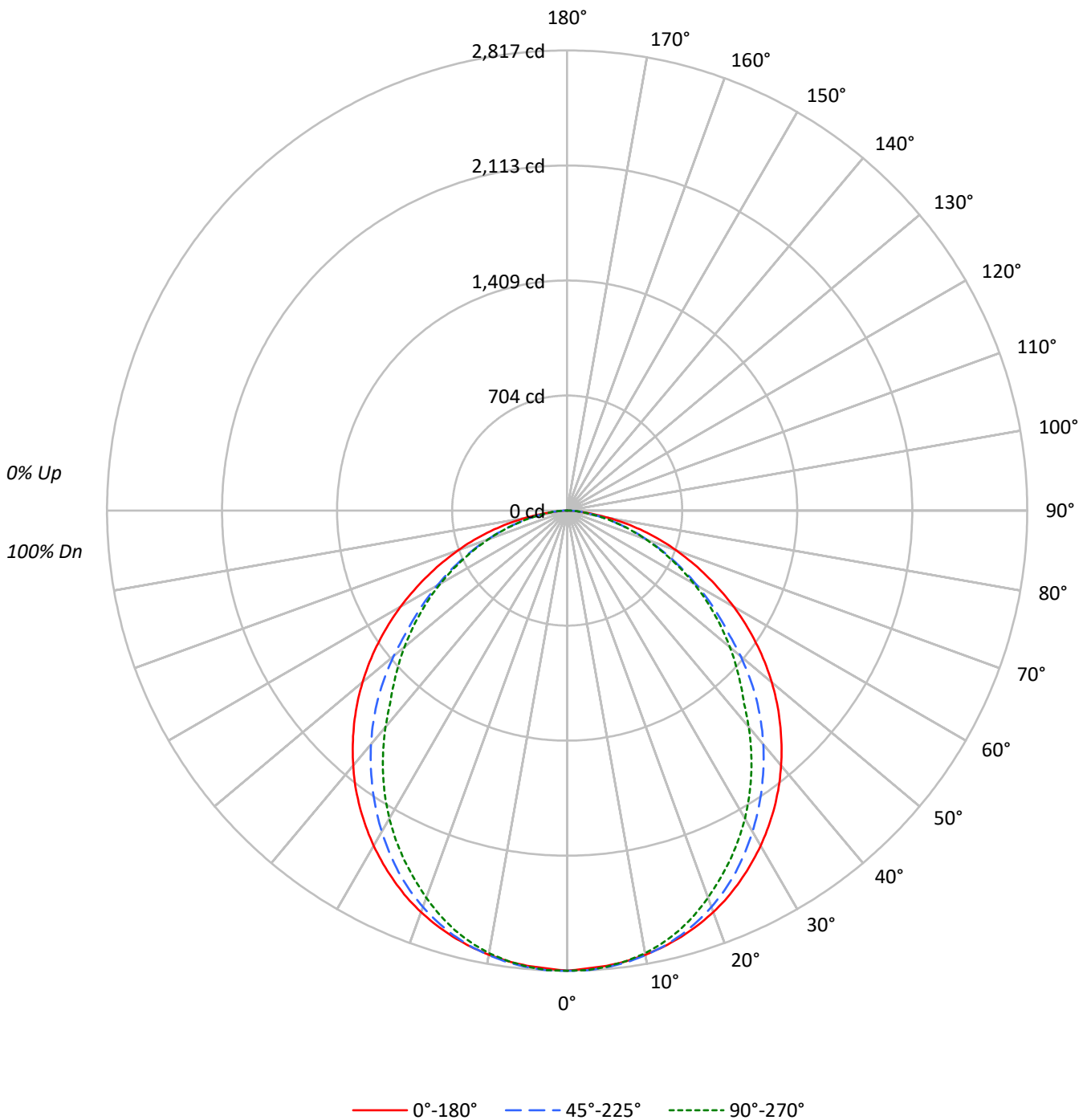
Summary

Lumens per Lamp: 3150 (4 lamps)
Luminaire Lumens: 7029.4 lumens
Efficiency: 55.8%
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.86' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 127
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	66	66	66	66	65	65	65	65	62	62	62	59	59	59	57	57	57	56
1	61	59	56	54	60	57	55	53	55	53	52	53	51	50	51	50	49	47
2	56	51	48	45	54	50	47	44	48	46	43	47	44	42	45	43	41	40
3	51	45	41	38	50	45	40	37	43	39	37	41	38	36	40	37	35	34
4	47	40	36	32	46	40	35	32	38	34	31	37	34	31	36	33	31	29
5	43	36	31	28	42	36	31	28	34	30	27	33	30	27	32	29	27	26
6	40	33	28	24	39	32	28	24	31	27	24	30	27	24	29	26	24	23
7	37	30	25	22	36	29	25	22	28	24	21	28	24	21	27	24	21	20
8	35	27	23	19	34	27	22	19	26	22	19	25	22	19	25	21	19	18
9	32	25	21	18	32	25	20	17	24	20	17	23	20	17	23	20	17	16
10	30	23	19	16	30	23	19	16	22	18	16	22	18	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9041	9041	9041
5°	9011	9040	9027
10°	8998	9007	8968
15°	8974	8941	8834
20°	8934	8822	8613
25°	8867	8647	8357
30°	8779	8412	8067
35°	8674	8137	7702
40°	8538	7830	7248
45°	8369	7443	6812
50°	8163	6920	6496
55°	7895	6379	6144
60°	7555	5911	5757
65°	7138	5407	5300
70°	6653	4861	4795
75°	6001	4241	4216
80°	4731	3567	3548
85°	2688	2946	2983



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	266.2	3.8	2.1	0°	2817	2817	2817	2817	2817	
10°-20°	756.7	10.8	6.0	5°	2797	2802	2806	2805	2802	266
20°-30°	1121.8	16.0	8.9	15°	2701	2700	2691	2672	2659	762
30°-40°	1303.8	18.5	10.3	25°	2504	2490	2442	2384	2360	1154
40°-50°	1276.6	18.2	10.1	35°	2214	2179	2077	2003	1966	1384
50°-60°	1076.3	15.3	8.5	45°	1844	1776	1640	1526	1501	1422
60°-70°	749.8	10.7	6.0	55°	1411	1310	1140	1110	1098	1260
70°-80°	384.0	5.5	3.0	65°	940	791	712	702	698	931
80°-90°	94.2	1.3	0.7	75°	484	339	342	343	340	510
90°-100°	0.0	0.0	0.0	85°	73	73	80	82	81	99
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	2144.7	30.5	17.0	165°	0	0	0	0	0	0
0°-40°	3448.5	49.1	27.4	175°	0	0	0	0	0	0
0°-60°	5801.4	82.5	46.0	180°	0	0	0	0	0	0
0°-90°	7029.4	100.0	55.8							
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°	7029.4	100.0	55.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2817	2817	2817	2817	2817
2.5°	2805	2811	2817	2817	2816
5°	2797	2802	2806	2805	2802
7.5°	2783	2786	2789	2785	2781
10°	2761	2765	2764	2756	2752
12.5°	2734	2735	2732	2718	2710
15°	2701	2700	2691	2672	2659
17.5°	2661	2657	2641	2613	2595
20°	2616	2608	2583	2543	2522
22.5°	2564	2553	2517	2466	2442
25°	2504	2490	2442	2384	2360
27.5°	2439	2422	2359	2298	2272
30°	2369	2346	2270	2205	2177
32.5°	2294	2266	2176	2107	2075
35°	2214	2179	2077	2003	1966
37.5°	2129	2086	1975	1892	1850
40°	2038	1987	1869	1775	1730
42.5°	1943	1884	1757	1651	1604
45°	1844	1776	1640	1526	1501
47.5°	1742	1664	1516	1421	1401
50°	1635	1550	1386	1319	1301
52.5°	1525	1432	1253	1214	1199
55°	1411	1310	1140	1110	1098
57.5°	1295	1186	1030	1005	998
60°	1177	1058	921	903	897
62.5°	1058	926	815	801	797
65°	940	791	712	702	698
67.5°	823	654	613	607	602
70°	709	539	518	516	511
72.5°	597	434	427	428	423
75°	484	339	342	343	340
77.5°	372	256	264	266	263
80°	256	184	193	194	192
82.5°	150	123	131	131	130
85°	73	73	80	82	81
87.5°	25	34	41	42	41
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)