

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: 226P119

Luminaire Tested: **RDI-SYM-224T5RP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 226P119
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RDI-SYM-224T5RP
Description: 1 X 2 Recessed Direct-Indirect Luminaire with one
center mounted curved acrylic diffuser with curved perf.
Light Source: Two - F24T5HO/830 - 2000 Lumens ea. - 24 Watts ea.
Ballast/Driver: Energy Savings ES-2-T5-24-UNV-F Electronic

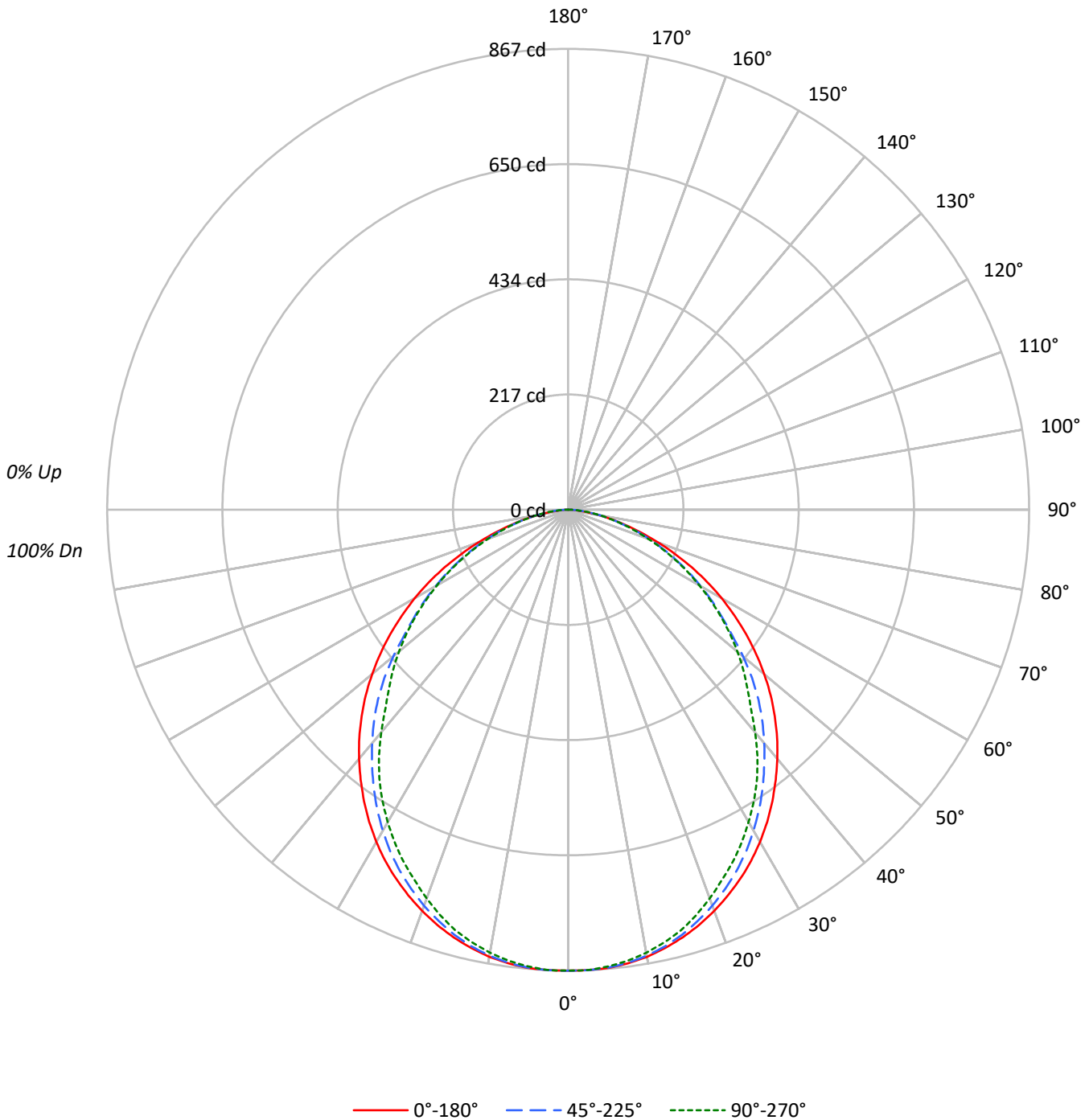
Summary

Lumens per Lamp: 2000 (2 lamps)
Luminaire Lumens: 2153.2 lumens
Efficiency: 53.8%
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.17 / 1.29
Luminous Opening: Rectangular (W 0.86' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 49
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	64	64	64	64	63	63	63	63	60	60	60	57	57	57	55	55	55	54
1	59	57	54	52	57	55	53	52	53	51	50	51	50	48	49	48	47	46
2	54	50	46	43	52	49	45	43	47	44	42	45	43	41	43	42	40	39
3	49	44	40	36	48	43	39	36	41	38	35	40	37	35	39	36	34	33
4	45	39	35	31	44	38	34	31	37	33	30	36	33	30	35	32	30	28
5	42	35	30	27	41	34	30	27	33	29	26	32	29	26	31	28	26	25
6	39	32	27	24	38	31	27	24	30	26	23	29	26	23	28	25	23	22
7	36	29	24	21	35	28	24	21	28	24	21	27	23	21	26	23	20	19
8	33	26	22	19	33	26	22	19	25	21	19	25	21	19	24	21	18	17
9	31	24	20	17	31	24	20	17	23	19	17	23	19	17	22	19	17	16
10	29	22	18	15	29	22	18	15	22	18	15	21	18	15	21	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5713	5713	5713
5°	5723	5719	5703
10°	5713	5698	5662
15°	5680	5645	5587
20°	5631	5556	5455
25°	5568	5447	5318
30°	5487	5304	5163
35°	5382	5129	4978
40°	5261	4932	4706
45°	5118	4714	4441
50°	4931	4399	4260
55°	4692	4062	4023
60°	4393	3797	3755
65°	3989	3488	3445
70°	3457	3151	3086
75°	2851	2716	2703
80°	2208	2261	2306
85°	1497	1806	1844



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	82.1	3.8	2.1	0°	867	867	867	867	867	
10°-20°	233.0	10.8	5.8	5°	866	865	865	863	862	82
20°-30°	344.9	16.0	8.6	15°	833	831	828	823	819	235
30°-40°	400.7	18.6	10.0	25°	766	760	749	738	732	353
40°-50°	392.3	18.2	9.8	35°	669	659	638	625	619	419
50°-60°	329.6	15.3	8.2	45°	549	532	506	481	477	423
60°-70°	228.0	10.6	5.7	55°	408	389	354	352	350	365
70°-80°	114.6	5.3	2.9	65°	256	235	224	222	221	253
80°-90°	28.0	1.3	0.7	75°	112	105	107	107	106	121
90°-100°	0.0	0.0	0.0	85°	20	22	24	24	24	24
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°	660.0	30.7	16.5	165°	0	0	0	0	0	0
0°-40°	1060.7	49.3	26.5	175°	0	0	0	0	0	0
0°-60°	1782.5	82.8	44.6	180°	0	0	0	0	0	0
0°-90°	2153.2	100.0	53.8							
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°	2153.2	100.0	53.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.3	867.3	867.3	867.3	867.3
2.5°	866.9	866.7	867.2	866.2	867.0
5°	865.5	865.0	864.8	863.0	862.4
7.5°	860.9	860.2	859.8	857.9	856.1
10°	854.1	853.0	851.9	849.1	846.4
12.5°	844.6	843.1	841.3	837.3	834.0
15°	832.8	830.9	827.7	823.3	819.2
17.5°	819.2	816.4	811.2	805.5	800.2
20°	803.3	799.7	792.6	784.6	778.2
22.5°	785.5	781.3	771.8	761.8	754.7
25°	766.1	760.5	749.4	738.4	731.6
27.5°	745.1	738.4	724.5	713.3	706.3
30°	721.4	713.9	697.3	685.6	678.7
32.5°	696.5	687.1	668.4	656.2	650.0
35°	669.3	658.9	637.8	625.3	619.0
37.5°	641.0	628.9	605.7	592.9	584.5
40°	611.8	597.9	573.5	557.7	547.2
42.5°	581.6	565.8	540.6	519.9	508.9
45°	549.4	532.5	506.0	481.3	476.7
47.5°	516.3	497.9	468.9	449.0	446.9
50°	481.2	462.2	429.2	417.4	415.7
52.5°	445.3	425.9	388.7	384.9	383.5
55°	408.5	388.6	353.7	351.5	350.3
57.5°	370.9	351.1	320.9	318.4	317.3
60°	333.4	313.6	288.2	286.3	285.0
62.5°	294.7	275.0	255.9	254.1	253.3
65°	255.9	235.0	223.8	222.2	221.0
67.5°	217.2	196.1	193.3	191.1	189.8
70°	179.5	162.7	163.6	161.2	160.2
72.5°	144.0	132.5	134.2	132.9	132.1
75°	112.0	104.9	106.7	106.7	106.2
77.5°	83.6	79.8	82.0	82.5	82.5
80°	58.2	57.3	59.6	60.6	60.8
82.5°	36.7	37.8	40.2	40.8	40.9
85°	19.8	22.1	23.9	24.5	24.4
87.5°	8.6	9.5	11.2	12.2	12.4
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



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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)