

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: 226P114

Luminaire Tested: **RDI-SYM-217RP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 226P114
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RDI-SYM-217RP
Description: 1 X 2 Recessed Direct-Indirect Luminaire with one
center mounted curved acrylic diffuser with curved perf.
Light Source: Two - FO17/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Triad B232IUNVHP-B Electronic - L.O.B.F. = 88.4%

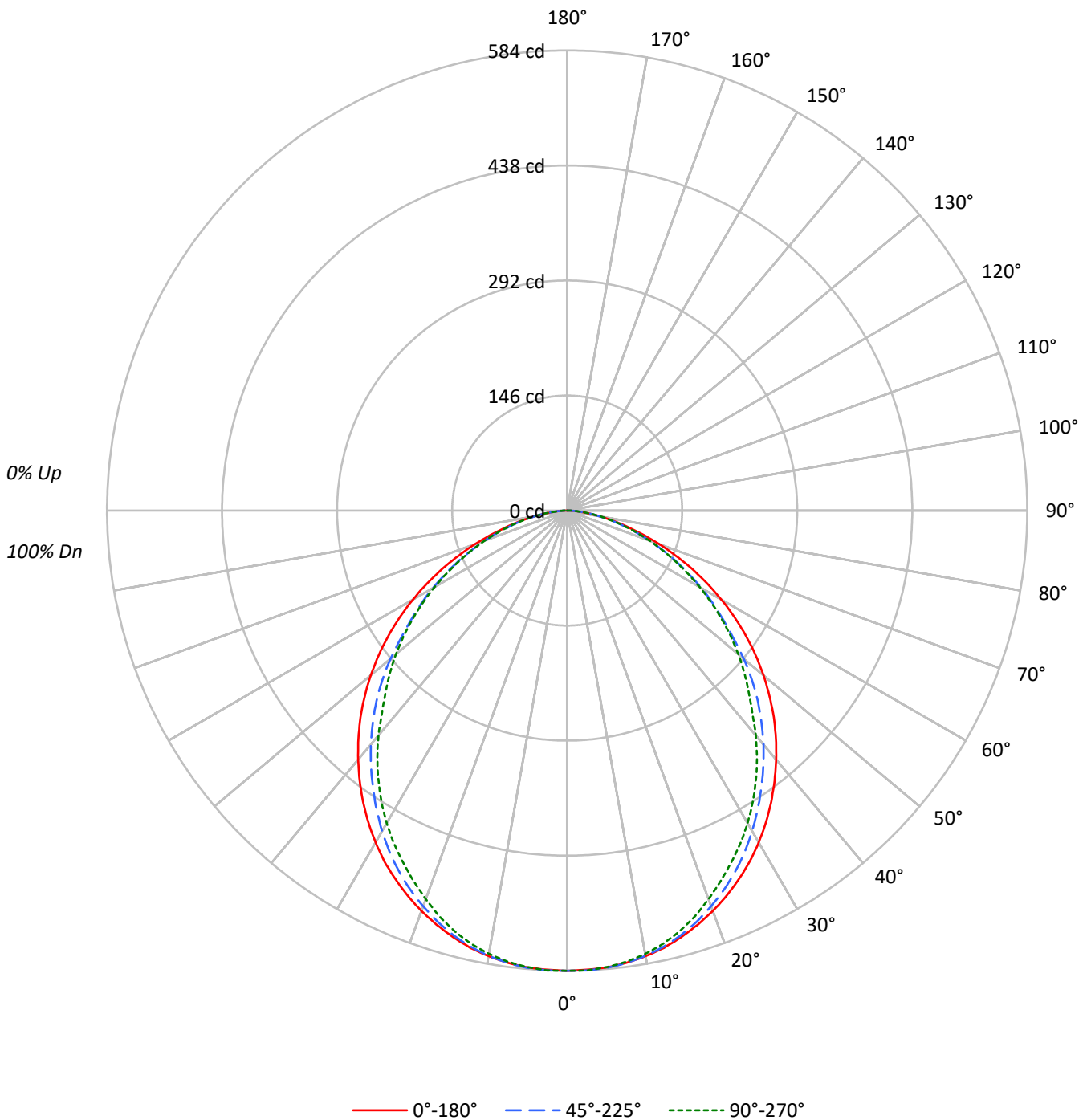
Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 1459.9 lumens
Efficiency: 56.2%
Efficacy: 45.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.87' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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										
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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56																				
1	61	59	57	55	60	58	56	54	55	54	52	53	52	50	51	50	49	48																				
2	56	52	48	45	55	51	47	44	49	46	43	47	45	42	45	43	42	40																				
3	51	46	41	38	50	45	41	37	43	40	37	42	39	36	40	38	36	34																				
4	47	41	36	32	46	40	36	32	39	35	32	37	34	31	36	33	31	30																				
5	43	36	32	28	42	36	31	28	35	31	28	34	30	27	33	29	27	26																				
6	40	33	28	25	39	32	28	24	31	27	24	30	27	24	30	26	24	23																				
7	37	30	25	22	36	30	25	22	29	25	22	28	24	21	27	24	21	20																				
8	35	27	23	20	34	27	23	19	26	22	19	26	22	19	25	22	19	18																				
9	33	25	21	18	32	25	21	18	24	20	17	24	20	17	23	20	17	16																				
10	31	23	19	16	30	23	19	16	22	19	16	22	18	16	21	18	16	15																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3804	3804	3804
5°	3804	3808	3801
10°	3797	3794	3778
15°	3777	3761	3725
20°	3747	3703	3635
25°	3708	3630	3541
30°	3657	3532	3444
35°	3588	3416	3320
40°	3509	3295	3166
45°	3415	3153	2998
50°	3295	2964	2873
55°	3144	2745	2714
60°	2945	2563	2532
65°	2690	2348	2320
70°	2359	2108	2111
75°	1975	1837	1867
80°	1556	1552	1579
85°	1083	1255	1278



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	55.3	3.8	2.1	0°	584	584	584	584	584	
10°-20°	157.0	10.8	6.0	5°	582	582	582	582	582	55
20°-30°	232.4	15.9	8.9	15°	560	560	558	555	553	158
30°-40°	270.5	18.5	10.4	25°	516	513	505	497	493	238
40°-50°	266.1	18.2	10.2	35°	451	445	430	422	418	282
50°-60°	224.3	15.4	8.6	45°	371	360	342	329	326	286
60°-70°	155.7	10.7	6.0	55°	277	263	242	240	239	247
70°-80°	79.0	5.4	3.0	65°	175	161	152	152	151	173
80°-90°	19.7	1.3	0.8	75°	78	71	73	74	74	84
90°-100°	0.0	0.0	0.0	85°	14	16	17	17	17	18
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°	444.7	30.5	17.1	165°	0	0	0	0	0	0
0°-40°	715.1	49.0	27.5	175°	0	0	0	0	0	0
0°-60°	1205.6	82.6	46.4	180°	0	0	0	0	0	0
0°-90°	1459.9	100.0	56.2							
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°	1459.9	100.0	56.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.2	584.2	584.2	584.2	584.2
2.5°	583.3	583.6	584.1	583.7	584.1
5°	582.0	582.2	582.5	581.6	581.5
7.5°	578.8	578.8	579.0	578.0	577.5
10°	574.3	574.2	573.8	572.3	571.3
12.5°	568.3	567.8	566.8	564.5	563.0
15°	560.3	559.6	557.9	554.7	552.6
17.5°	551.0	549.9	547.1	542.7	539.8
20°	540.7	539.0	534.4	528.3	524.6
22.5°	529.0	526.7	520.5	512.7	508.9
25°	516.1	513.2	505.2	496.7	492.9
27.5°	502.1	498.5	488.2	479.7	476.2
30°	486.4	482.2	469.7	461.6	458.0
32.5°	469.5	464.1	450.1	442.3	438.5
35°	451.4	444.9	429.7	421.7	417.7
37.5°	432.4	424.7	409.0	400.4	395.9
40°	412.8	403.8	387.6	378.3	372.5
42.5°	392.1	382.0	365.3	354.4	347.8
45°	370.8	359.6	342.4	329.1	325.6
47.5°	348.4	336.2	318.4	306.9	305.3
50°	325.3	312.2	292.6	285.4	283.6
52.5°	301.6	287.8	265.9	262.7	261.5
55°	276.9	263.1	241.8	239.8	239.1
57.5°	251.9	238.2	219.4	217.2	216.7
60°	226.1	213.5	196.8	195.1	194.4
62.5°	200.5	187.3	174.2	173.0	172.1
65°	174.6	161.3	152.4	151.7	150.6
67.5°	148.8	135.3	131.1	131.0	130.3
70°	123.9	112.1	110.7	111.0	110.9
72.5°	100.1	90.9	91.2	92.0	92.0
75°	78.5	71.4	73.0	74.0	74.2
77.5°	59.1	54.2	56.4	57.4	57.4
80°	41.5	39.0	41.4	42.2	42.1
82.5°	26.3	26.2	28.0	28.5	28.3
85°	14.5	15.6	16.8	17.0	17.1
87.5°	6.6	7.1	8.2	8.7	8.7
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)