

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: 226P113

Luminaire Tested: **RDI-SYM-232RP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 226P113
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RDI-SYM-232RP
Description: 1 X 4 Recessed Direct-Indirect Luminaire with one
center mounted curved acrylic diffuser with curved perf.
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1%

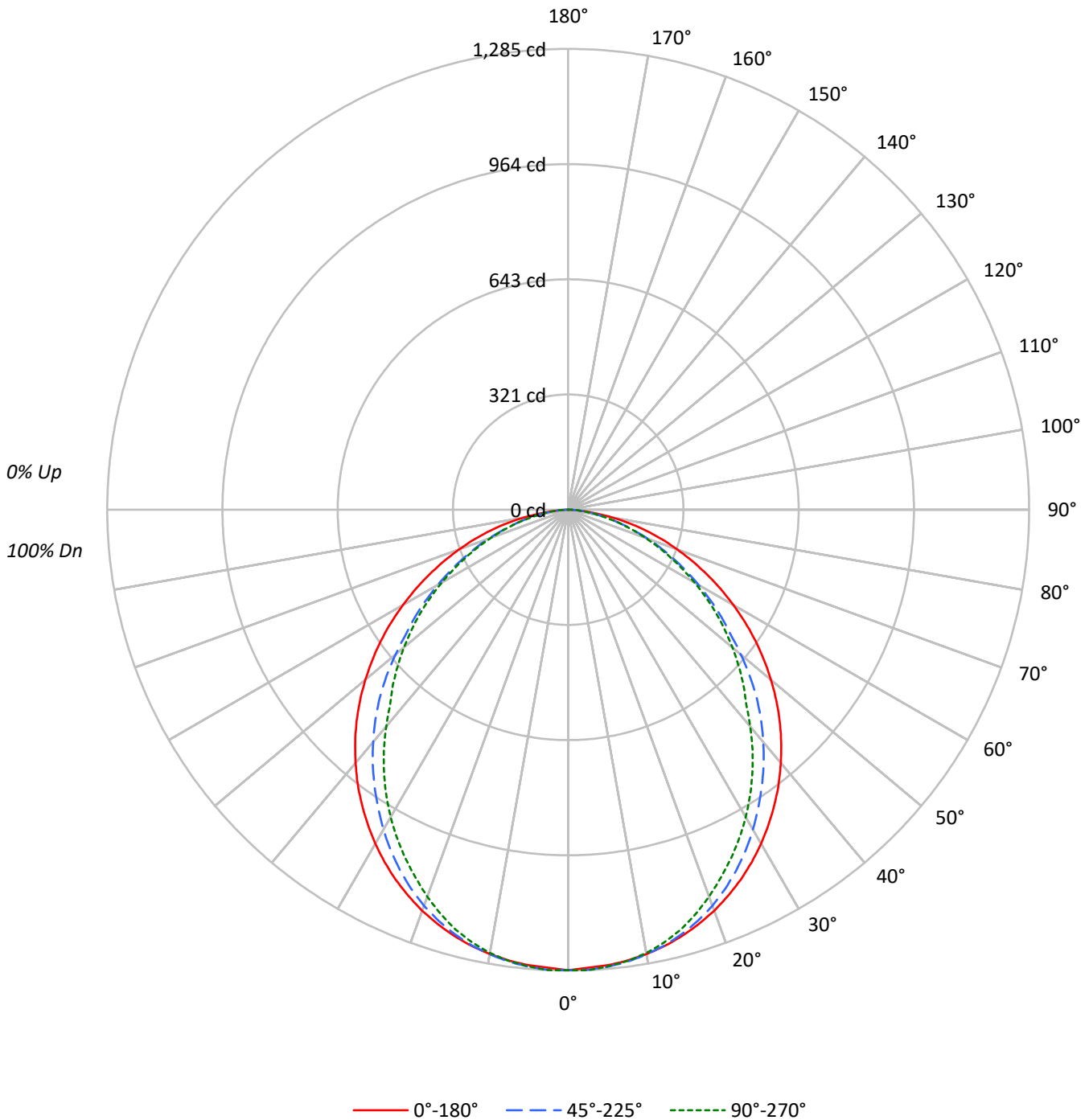
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3192.0 lumens
Efficiency: 57.0%
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 57
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	68	68	68	68	66	66	66	66	63	63	63	61	61	61	58	58	58	57
1	62	60	58	55	61	59	56	55	56	54	53	54	52	51	52	51	50	49
2	57	53	49	46	56	51	48	45	49	47	44	48	45	43	46	44	42	41
3	52	46	42	38	51	46	41	38	44	40	37	42	39	37	41	38	36	35
4	48	41	36	33	47	41	36	33	39	35	32	38	34	32	37	34	31	30
5	44	37	32	28	43	36	32	28	35	31	28	34	31	28	33	30	27	26
6	41	33	29	25	40	33	28	25	32	28	25	31	27	24	30	27	24	23
7	38	30	26	22	37	30	25	22	29	25	22	28	25	22	28	24	22	20
8	35	28	23	20	34	27	23	20	27	23	20	26	22	20	25	22	19	18
9	33	26	21	18	32	25	21	18	25	21	18	24	20	18	23	20	18	17
10	31	24	19	16	30	23	19	16	23	19	16	22	19	16	22	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3938	3938	3938
5°	3925	3937	3934
10°	3917	3920	3908
15°	3905	3889	3848
20°	3884	3835	3746
25°	3851	3752	3631
30°	3807	3647	3506
35°	3755	3523	3351
40°	3691	3387	3159
45°	3617	3222	2997
50°	3521	2996	2853
55°	3406	2786	2689
60°	3263	2576	2496
65°	3091	2351	2278
70°	2896	2107	2053
75°	2654	1825	1789
80°	2190	1536	1501
85°	1407	1302	1337



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	121.3	3.8	2.2	0°	1284	1284	1284	1284	1284	
10°-20°	344.5	10.8	6.2	5°	1275	1276	1279	1278	1278	121
20°-30°	509.6	16.0	9.1	15°	1230	1229	1225	1216	1212	347
30°-40°	591.4	18.5	10.6	25°	1138	1131	1109	1083	1073	524
40°-50°	579.6	18.2	10.4	35°	1003	987	941	909	895	627
50°-60°	488.7	15.3	8.7	45°	834	802	743	697	691	643
60°-70°	339.4	10.6	6.1	55°	637	590	521	507	503	569
70°-80°	173.9	5.4	3.1	65°	426	357	324	317	314	422
80°-90°	43.6	1.4	0.8	75°	224	155	154	153	151	236
90°-100°	0.0	0.0	0.0	85°	40	34	37	37	38	51
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°	975.4	30.6	17.4	165°	0	0	0	0	0	0
0°-40°	1566.8	49.1	28.0	175°	0	0	0	0	0	0
0°-60°	2635.1	82.6	47.1	180°	0	0	0	0	0	0
0°-90°	3192.0	100.0	57.0							
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°	3192.0	100.0	57.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284	1284	1284	1284	1284
2.5°	1278	1280	1284	1284	1285
5°	1275	1276	1279	1278	1278
7.5°	1268	1269	1271	1268	1269
10°	1258	1259	1259	1255	1255
12.5°	1246	1245	1244	1237	1236
15°	1230	1229	1225	1216	1212
17.5°	1211	1209	1202	1189	1182
20°	1190	1186	1175	1157	1148
22.5°	1165	1160	1144	1121	1111
25°	1138	1131	1109	1083	1073
27.5°	1108	1099	1071	1043	1033
30°	1075	1064	1030	1001	990
32.5°	1040	1027	986	957	944
35°	1003	987	941	909	895
37.5°	964	944	895	860	844
40°	922	898	846	807	789
42.5°	879	851	796	752	734
45°	834	802	743	697	691
47.5°	787	751	687	653	644
50°	738	698	628	605	598
52.5°	688	645	570	556	550
55°	637	590	521	507	503
57.5°	585	534	470	458	455
60°	532	476	420	410	407
62.5°	479	417	371	363	360
65°	426	357	324	317	314
67.5°	374	296	279	274	271
70°	323	246	235	231	229
72.5°	274	199	193	191	189
75°	224	155	154	153	151
77.5°	175	118	118	118	116
80°	124	85	87	86	85
82.5°	77	57	59	59	58
85°	40	34	37	37	38
87.5°	14	16	19	19	18
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)