

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: 223P127

Luminaire Tested: **2RDI-332X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 223P127
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDI-332X
Description: 2 X 4 Recessed Direct-Indirect Luminaire with a
center mounted curve solid reflector.
Light Source: Three - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B332IUNVHP-A Electronic

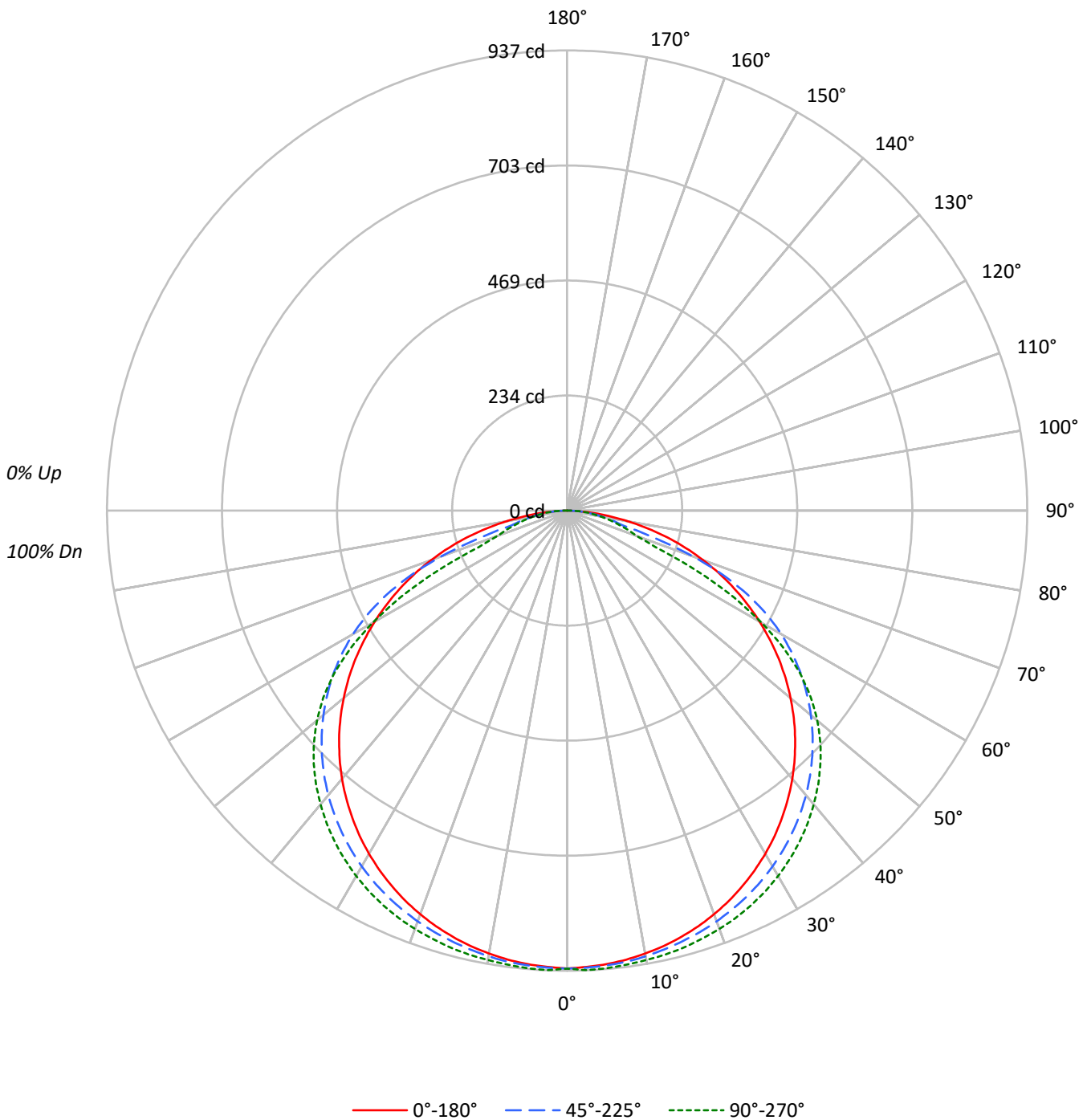
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 2861.8 lumens
Efficiency: 34.1%
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.37 / 1.47
Luminous Opening: Rectangular (W 1.88' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 81
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	41	41	41	41	40	40	40	40	38	38	38	36	36	36	35	35	35	34
1	37	35	34	33	36	35	33	32	33	32	31	32	31	30	31	30	29	29
2	34	31	29	27	33	30	28	26	29	27	26	28	26	25	27	26	25	24
3	31	27	24	22	30	27	24	22	26	23	21	25	23	21	24	22	21	20
4	28	24	21	19	27	23	21	18	23	20	18	22	20	18	21	19	18	17
5	26	21	18	16	25	21	18	16	20	18	16	20	17	15	19	17	15	15
6	24	19	16	14	23	19	16	14	18	16	14	18	15	14	17	15	13	13
7	22	17	14	12	21	17	14	12	16	14	12	16	14	12	16	13	12	11
8	20	16	13	11	20	16	13	11	15	13	11	15	12	11	14	12	11	10
9	19	14	12	10	19	14	12	10	14	11	10	13	11	10	13	11	9	9
10	18	13	11	9	17	13	10	9	13	10	9	12	10	9	12	10	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1369	1369	1369
5°	1366	1370	1378
10°	1365	1374	1385
15°	1366	1380	1400
20°	1367	1391	1416
25°	1367	1404	1436
30°	1368	1418	1457
35°	1368	1434	1477
40°	1367	1450	1497
45°	1363	1466	1515
50°	1356	1480	1519
55°	1346	1488	1483
60°	1329	1480	1345
65°	1305	1411	1026
70°	1265	1174	645
75°	1197	667	607
80°	1065	616	584
85°	807	600	603



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	88.5	3.1	1.1	0°	933	933	933	933	933	
10°-20°	256.8	9.0	3.1	5°	927	927	930	931	935	88
20°-30°	399.2	14.0	4.8	15°	899	901	908	915	921	254
30°-40°	498.5	17.4	5.9	25°	844	851	867	879	886	389
40°-50°	539.5	18.9	6.4	35°	763	776	800	816	824	478
50°-60°	505.5	17.7	6.0	45°	657	677	706	722	730	506
60°-70°	362.3	12.7	4.3	55°	526	554	581	584	580	470
70°-80°	168.4	5.9	2.0	65°	376	406	406	335	295	371
80°-90°	43.2	1.5	0.5	75°	211	230	118	109	107	222
90°-100°	0.0	0.0	0.0	85°	48	36	36	36	36	56
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°	744.5	26.0	8.9	165°	0	0	0	0	0	0
0°-40°	1243.0	43.4	14.8	175°	0	0	0	0	0	0
0°-60°	2287.9	79.9	27.2	180°	0	0	0	0	0	0
0°-90°	2861.8	100.0	34.1							
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°	2861.8	100.0	34.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.6	932.6	932.6	932.6	932.6
2.5°	929.8	929.6	931.6	933.1	936.7
5°	927.1	927.4	929.6	931.3	935.2
7.5°	922.4	923.1	926.5	928.7	932.3
10°	915.9	917.1	921.6	925.5	929.2
12.5°	908.1	909.8	915.1	921.0	925.8
15°	898.7	900.8	907.9	914.8	920.9
17.5°	887.5	890.5	899.8	908.0	913.8
20°	874.8	878.8	890.1	900.1	906.6
22.5°	860.3	865.4	879.0	890.5	897.7
25°	844.0	850.7	866.6	878.9	886.4
27.5°	826.3	834.3	852.5	865.9	874.0
30°	806.9	816.5	836.4	851.2	859.2
32.5°	785.9	797.1	819.1	834.4	842.7
35°	763.3	776.1	799.9	815.7	824.4
37.5°	739.0	753.7	779.0	795.2	803.6
40°	713.3	729.8	756.7	772.8	781.2
42.5°	685.7	704.4	732.4	748.6	756.6
45°	656.7	677.4	706.0	722.2	729.5
47.5°	626.2	648.9	677.8	693.0	699.6
50°	593.9	618.7	648.0	661.2	664.9
52.5°	560.6	587.2	615.8	625.1	625.8
55°	525.8	554.0	581.4	583.7	579.5
57.5°	489.8	518.9	544.5	536.2	524.0
60°	452.6	482.9	503.9	478.5	458.2
62.5°	414.4	445.3	458.5	411.3	383.1
65°	375.8	406.2	406.3	334.9	295.4
67.5°	335.6	365.6	344.5	245.1	194.7
70°	294.6	323.2	273.4	155.5	150.3
72.5°	253.3	278.5	191.3	131.0	127.9
75°	211.0	229.7	117.6	109.1	107.1
77.5°	168.5	174.4	94.2	88.9	87.5
80°	126.0	112.1	72.9	70.0	69.1
82.5°	85.0	58.2	53.4	52.2	52.0
85°	47.9	36.4	35.6	35.7	35.8
87.5°	18.7	17.5	18.9	20.3	20.6
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)