

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: CORELITE

Report Number: P217913

Luminaire Tested: **R2X-WO-5L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217913  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35823-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2X-WO-5L35-LD5-UNV-24  
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 5, 3500K CCT.  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7740.3 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

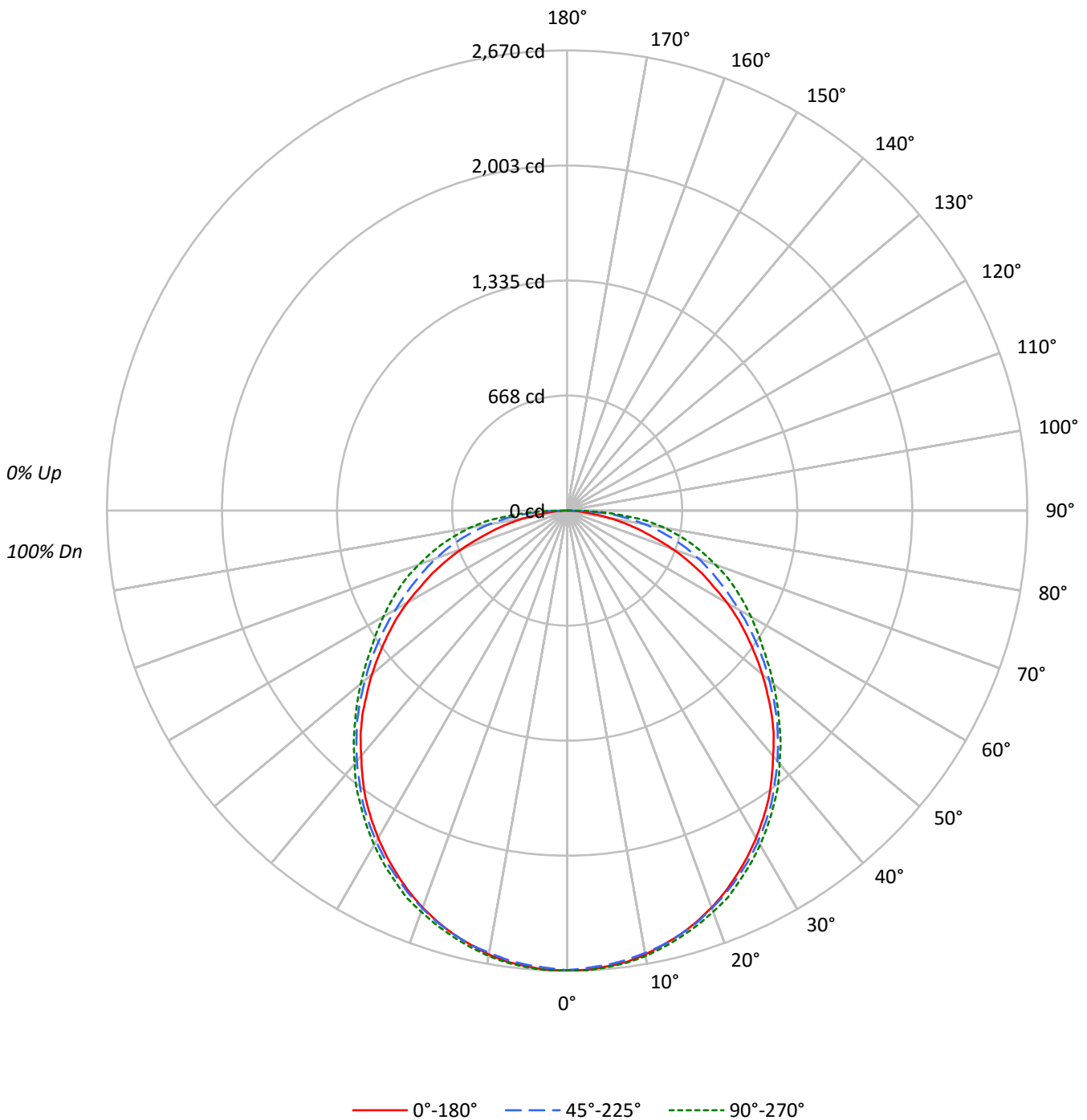
Input Watts (W): 71.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3589	3589	3589
5°	3587	3574	3593
10°	3573	3561	3586
15°	3545	3545	3565
20°	3509	3516	3547
25°	3461	3482	3517
30°	3406	3443	3479
35°	3350	3397	3431
40°	3265	3335	3368
45°	3197	3278	3313
50°	3094	3202	3271
55°	2993	3142	3252
60°	2890	3092	3314
65°	2746	3097	3434
70°	2552	3189	3596
75°	2284	3323	3897
80°	1912	3550	4424
85°	1379	4063	5042



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	3.3
10°-20°	719.9	9.3
20°-30°	1083.4	14.0
30°-40°	1292.2	16.7
40°-50°	1324.7	17.1
50°-60°	1199.8	15.5
60°-70°	965.2	12.5
70°-80°	649.1	8.4
80°-90°	253.7	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2055.6	26.6
0°-40°	3347.8	43.3
0°-60°	5872.3	75.9
0°-90°	7740.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7740.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2667	2667	2667	2667	2667	
5°	2656	2656	2646	2660	2660	252
15°	2545	2550	2545	2562	2559	718
25°	2331	2338	2345	2369	2369	1074
35°	2040	2049	2068	2084	2089	1273
45°	1680	1697	1722	1739	1741	1293
55°	1276	1309	1340	1377	1386	1142
65°	862	898	973	1060	1079	851
75°	439	505	639	719	750	465
85°	89	172	263	308	327	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2667.2	2667.2	2667.2	2667.2	2667.2
2.5°	2667.2	2667.2	2655.5	2669.6	2669.6
5°	2655.5	2655.5	2646.1	2660.2	2660.2
7.5°	2641.4	2641.4	2629.6	2646.1	2646.1
10°	2615.5	2615.5	2606.1	2624.9	2624.9
12.5°	2580.3	2587.3	2580.3	2596.7	2594.4
15°	2545.0	2549.7	2545.0	2561.5	2559.1
17.5°	2500.4	2505.1	2505.1	2521.5	2521.5
20°	2451.0	2455.7	2455.7	2476.9	2476.9
22.5°	2394.6	2401.7	2404.0	2427.5	2432.2
25°	2331.2	2338.2	2345.3	2368.8	2368.8
27.5°	2265.4	2272.4	2284.2	2307.7	2307.7
30°	2192.5	2204.3	2216.0	2241.9	2239.5
32.5°	2117.3	2129.1	2143.2	2164.3	2166.7
35°	2039.8	2049.2	2068.0	2084.4	2089.1
37.5°	1950.5	1964.6	1981.0	2009.2	2011.6
40°	1858.8	1875.3	1898.8	1922.3	1917.6
42.5°	1774.2	1790.7	1809.5	1833.0	1833.0
45°	1680.2	1696.7	1722.5	1739.0	1741.3
47.5°	1576.8	1602.7	1626.2	1649.7	1652.0
50°	1478.1	1506.3	1529.8	1560.4	1562.7
52.5°	1377.1	1407.6	1438.2	1466.4	1473.4
55°	1276.0	1308.9	1339.5	1377.1	1386.5
57.5°	1177.3	1210.2	1247.8	1290.1	1308.9
60°	1073.9	1109.2	1149.1	1210.2	1231.4
62.5°	961.1	1001.1	1059.8	1132.7	1156.2
65°	862.4	897.7	972.9	1059.8	1078.6
67.5°	756.7	791.9	890.6	977.6	1003.4
70°	648.6	693.2	810.7	895.3	914.1
72.5°	538.1	596.9	726.1	808.4	831.9
75°	439.4	505.2	639.2	719.1	749.6
77.5°	340.7	423.0	549.9	627.4	660.3
80°	246.7	343.1	458.2	535.8	571.0
82.5°	157.4	253.8	364.2	444.1	472.3
85°	89.3	171.5	263.2	307.8	326.6
87.5°	35.2	84.6	141.0	185.6	197.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)