

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: P217914

Luminaire Tested: **R2X-WO-1L40-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217914  
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-1L40-LD5-UNV-24  
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 1, 4000K CCT.  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

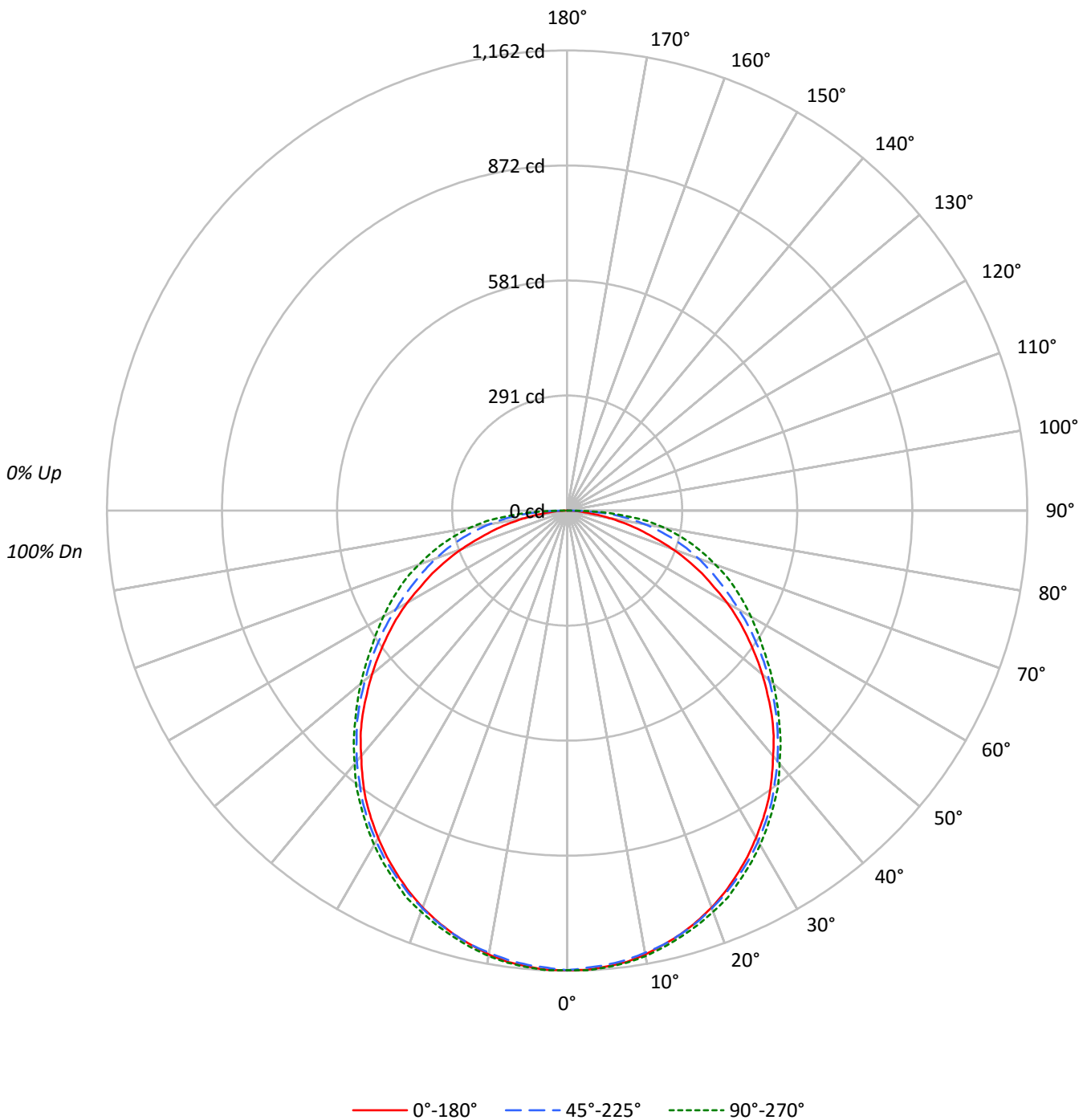
Lumens per Lamp: N/A  
Luminaire Lumens: 3368.4 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.1  
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°	1562	1562	1562
5°	1561	1555	1563
10°	1555	1549	1561
15°	1543	1543	1551
20°	1527	1530	1543
25°	1506	1515	1530
30°	1482	1498	1514
35°	1458	1478	1493
40°	1421	1451	1466
45°	1391	1426	1442
50°	1346	1393	1424
55°	1303	1367	1415
60°	1258	1346	1442
65°	1195	1348	1494
70°	1111	1388	1565
75°	994	1446	1696
80°	832	1545	1925
85°	601	1768	2194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	3.3
10°-20°	313.3	9.3
20°-30°	471.5	14.0
30°-40°	562.3	16.7
40°-50°	576.5	17.1
50°-60°	522.1	15.5
60°-70°	420.0	12.5
70°-80°	282.5	8.4
80°-90°	110.4	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°	894.5	26.6
0°-40°	1456.9	43.3
0°-60°	2555.5	75.9
0°-90°	3368.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1156	1156	1152	1158	1158	110
15°	1108	1110	1108	1115	1114	312
25°	1014	1018	1021	1031	1031	467
35°	888	892	900	907	909	554
45°	731	738	750	757	758	563
55°	555	570	583	599	603	497
65°	375	391	423	461	469	371
75°	191	220	278	313	326	203
85°	39	75	114	134	142	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1160.7	1160.7	1160.7	1160.7	1160.7
2.5°	1160.7	1160.7	1155.6	1161.7	1161.7
5°	1155.6	1155.6	1151.5	1157.6	1157.6
7.5°	1149.5	1149.5	1144.3	1151.5	1151.5
10°	1138.2	1138.2	1134.1	1142.3	1142.3
12.5°	1122.9	1125.9	1122.9	1130.0	1129.0
15°	1107.5	1109.6	1107.5	1114.7	1113.7
17.5°	1088.1	1090.1	1090.1	1097.3	1097.3
20°	1066.6	1068.7	1068.7	1077.9	1077.9
22.5°	1042.1	1045.1	1046.2	1056.4	1058.4
25°	1014.5	1017.5	1020.6	1030.8	1030.8
27.5°	985.8	988.9	994.0	1004.2	1004.2
30°	954.1	959.2	964.4	975.6	974.6
32.5°	921.4	926.5	932.7	941.9	942.9
35°	887.7	891.8	899.9	907.1	909.1
37.5°	848.8	854.9	862.1	874.4	875.4
40°	808.9	816.1	826.3	836.5	834.5
42.5°	772.1	779.3	787.4	797.7	797.7
45°	731.2	738.4	749.6	756.8	757.8
47.5°	686.2	697.4	707.7	717.9	718.9
50°	643.2	655.5	665.7	679.0	680.1
52.5°	599.3	612.6	625.9	638.1	641.2
55°	555.3	569.6	582.9	599.3	603.4
57.5°	512.3	526.7	543.0	561.4	569.6
60°	467.4	482.7	500.1	526.7	535.9
62.5°	418.3	435.6	461.2	492.9	503.1
65°	375.3	390.7	423.4	461.2	469.4
67.5°	329.3	344.6	387.6	425.4	436.7
70°	282.3	301.7	352.8	389.6	397.8
72.5°	234.2	259.8	316.0	351.8	362.0
75°	191.2	219.9	278.2	312.9	326.2
77.5°	148.3	184.1	239.3	273.0	287.4
80°	107.4	149.3	199.4	233.2	248.5
82.5°	68.5	110.4	158.5	193.3	205.6
85°	38.9	74.7	114.5	134.0	142.1
87.5°	15.3	36.8	61.4	80.8	85.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)