

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: P217901

Luminaire Tested: **R2X-WO-3L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35816-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2X-WO-3L40-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3221.9 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

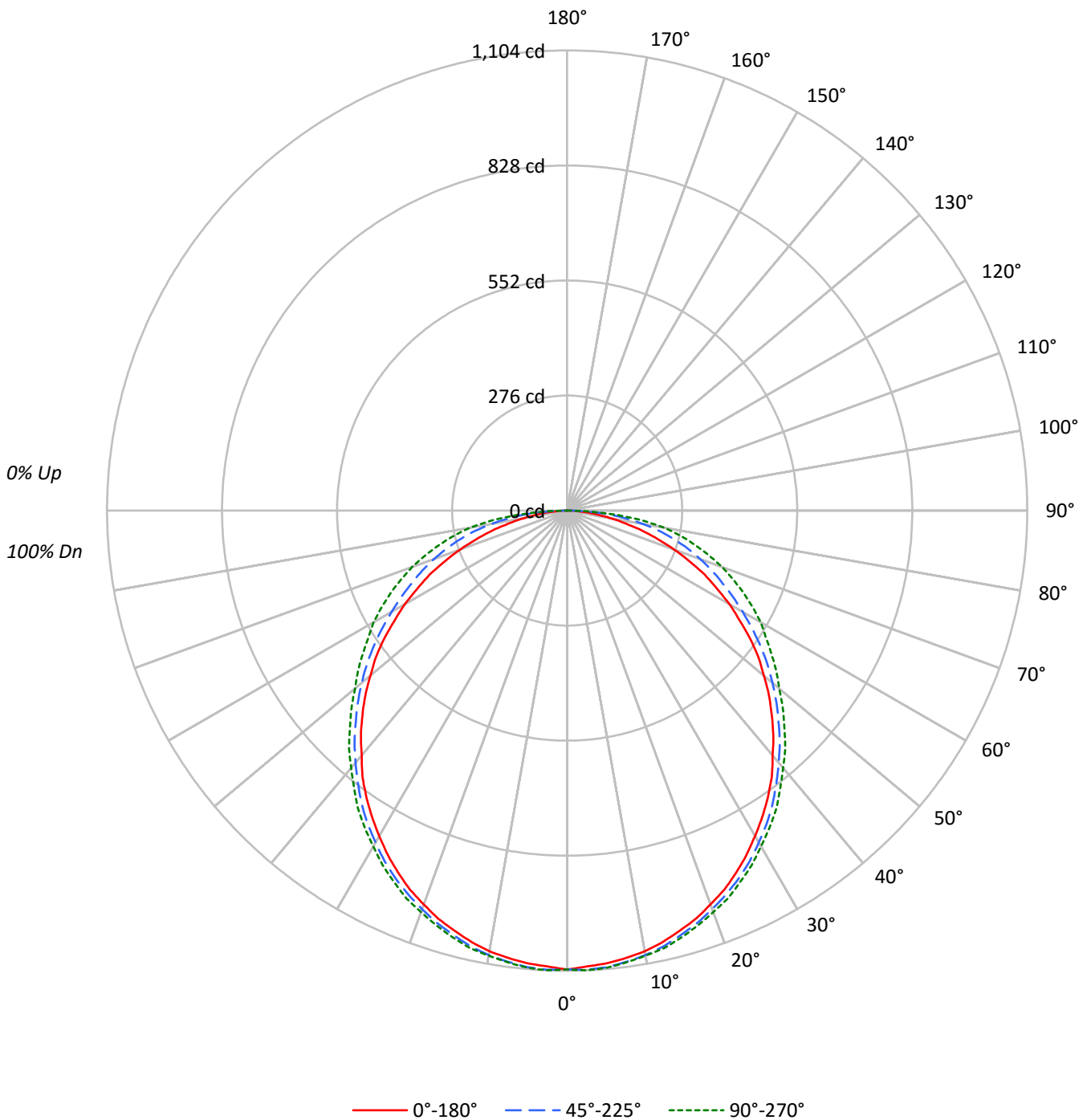
Input Watts (W): 26.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P217901

CATALOG NUMBER: R2X-WO-3L40-LD5-UNV-22

### Luminous Intensity Polar Plot





TEST NUMBER: P217901

CATALOG NUMBER: R2X-WO-3L40-LD5-UNV-22

**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	101	96	93	96	93	90	92	90	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	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	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	41	33	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2962	2962	2962
5°	2945	2969	2974
10°	2934	2958	2963
15°	2907	2936	2953
20°	2880	2915	2936
25°	2847	2892	2919
30°	2801	2857	2890
35°	2758	2823	2872
40°	2695	2774	2833
45°	2643	2730	2804
50°	2579	2693	2781
55°	2515	2657	2806
60°	2422	2617	2885
65°	2317	2615	2971
70°	2150	2674	3113
75°	1947	2764	3297
80°	1638	2854	3651
85°	1306	2936	3730



TEST NUMBER: P217901

CATALOG NUMBER: R2X-WO-3L40-LD5-UNV-22

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	3.2
10°-20°	297.2	9.2
20°-30°	447.8	13.9
30°-40°	536.0	16.6
40°-50°	553.3	17.2
50°-60°	506.4	15.7
60°-70°	409.4	12.7
70°-80°	271.9	8.4
80°-90°	95.7	3.0
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°	849.2	26.4
0°-40°	1385.2	43.0
0°-60°	2444.9	75.9
0°-90°	3221.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3221.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1090	1093	1099	1101	1101	104
15°	1044	1048	1054	1059	1060	295
25°	959	962	974	982	983	442
35°	840	843	859	868	874	525
45°	695	702	717	732	737	536
55°	536	544	566	587	598	478
65°	364	376	411	454	467	358
75°	187	210	266	302	317	197
85°	42	62	95	112	121	51
90°	0	0	0	0	0	



TEST NUMBER: P217901

CATALOG NUMBER: R2X-WO-3L40-LD5-UNV-22

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1094.8	1096.3	1102.4	1103.9	1103.9
5°	1090.3	1093.3	1099.3	1100.9	1100.9
7.5°	1082.7	1085.8	1091.8	1094.8	1093.3
10°	1073.7	1075.2	1082.7	1085.8	1084.2
12.5°	1060.1	1063.1	1070.7	1073.7	1075.2
15°	1043.5	1048.0	1054.0	1058.6	1060.1
17.5°	1026.9	1029.9	1037.4	1042.0	1043.5
20°	1005.7	1008.7	1017.8	1023.8	1025.3
22.5°	984.6	986.1	996.7	1004.2	1007.2
25°	958.9	961.9	974.0	981.6	983.1
27.5°	931.7	936.3	948.3	955.9	958.9
30°	901.5	907.6	919.6	928.7	930.2
32.5°	871.3	877.4	891.0	901.5	903.0
35°	839.6	842.6	859.2	868.3	874.3
37.5°	806.4	810.9	824.5	836.6	839.6
40°	767.1	776.2	789.8	801.9	806.4
42.5°	732.4	738.4	755.0	767.1	774.7
45°	694.6	702.2	717.3	732.4	736.9
47.5°	656.9	664.4	681.0	696.1	702.2
50°	616.1	623.7	643.3	659.9	664.4
52.5°	578.4	585.9	605.5	622.2	632.7
55°	536.1	543.6	566.3	587.4	598.0
57.5°	490.8	502.9	525.5	551.2	564.8
60°	450.0	459.1	486.2	521.0	536.1
62.5°	404.7	416.8	448.5	487.8	501.3
65°	363.9	376.0	410.7	454.5	466.6
67.5°	317.1	332.2	376.0	418.3	430.4
70°	273.3	289.9	339.8	380.5	395.6
72.5°	228.0	249.2	303.5	342.8	356.4
75°	187.3	209.9	265.8	302.0	317.1
77.5°	143.5	173.7	226.5	264.3	277.9
80°	105.7	135.9	184.2	222.0	235.6
82.5°	72.5	98.2	140.4	172.1	181.2
85°	42.3	61.9	95.1	111.7	120.8
87.5°	18.1	28.7	43.8	54.4	52.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)