

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: P217902

Luminaire Tested: **R2X-WO-4L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217902  
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-4L40-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 4, 4000K CCT.  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3735.3 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

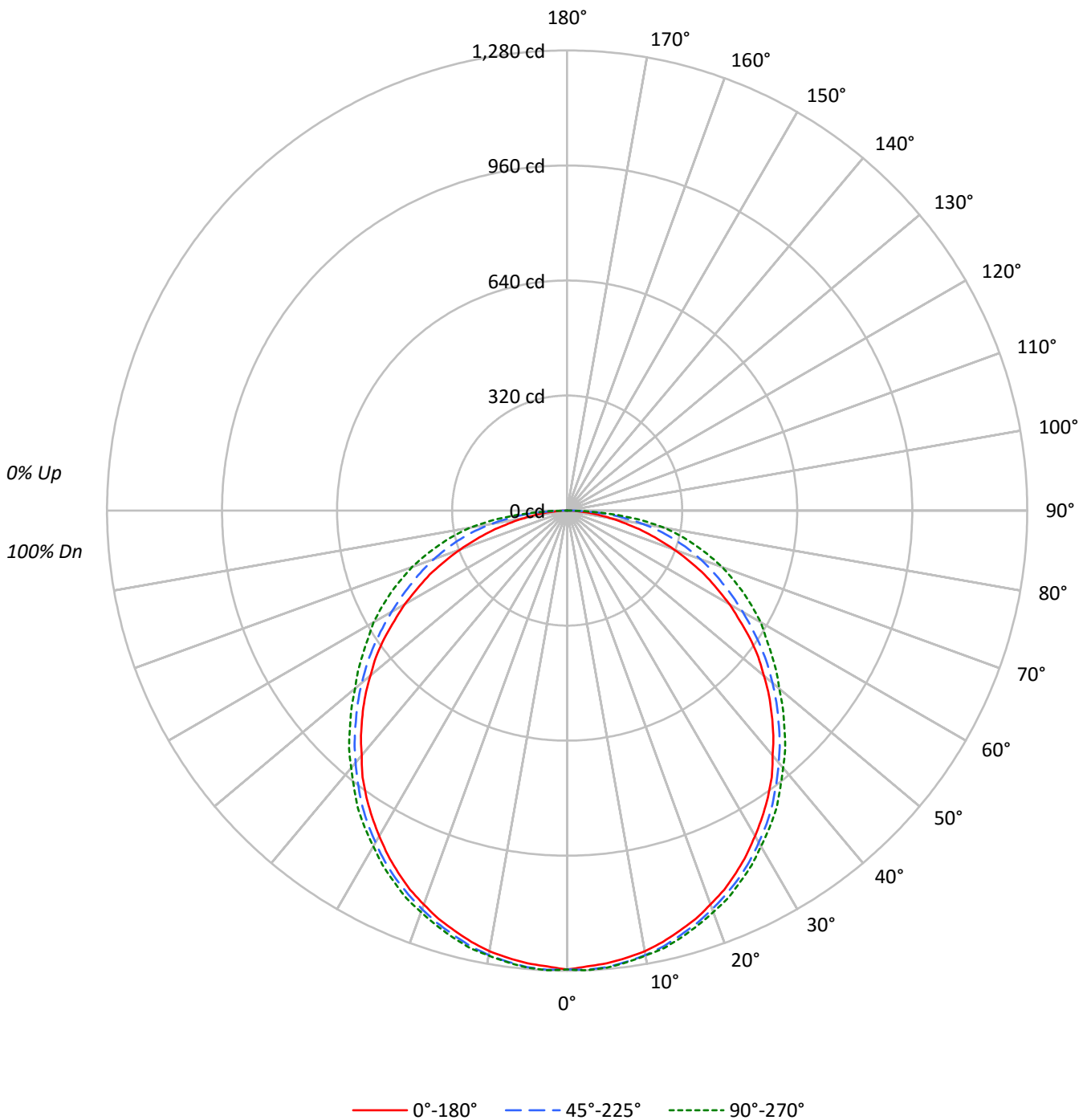
Input Watts (W): 31.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P217902

CATALOG NUMBER: R2X-WO-4L40-LD5-UNV-22

### Luminous Intensity Polar Plot





TEST NUMBER: P217902

CATALOG NUMBER: R2X-WO-4L40-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°	3434	3434	3434
5°	3414	3443	3448
10°	3401	3430	3435
15°	3370	3404	3424
20°	3339	3379	3404
25°	3301	3353	3384
30°	3248	3313	3351
35°	3198	3272	3330
40°	3124	3216	3284
45°	3065	3165	3251
50°	2990	3122	3225
55°	2916	3080	3253
60°	2808	3034	3345
65°	2686	3032	3445
70°	2493	3099	3609
75°	2257	3203	3822
80°	1898	3310	4232
85°	1513	3406	4326



TEST NUMBER: P217902

CATALOG NUMBER: R2X-WO-4L40-LD5-UNV-22

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.8	3.2
10°-20°	344.5	9.2
20°-30°	519.2	13.9
30°-40°	621.4	16.6
40°-50°	641.5	17.2
50°-60°	587.1	15.7
60°-70°	474.6	12.7
70°-80°	315.2	8.4
80°-90°	110.9	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°	984.5	26.4
0°-40°	1605.9	43.0
0°-60°	2834.5	75.9
0°-90°	3735.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1264	1268	1274	1276	1276	120
15°	1210	1215	1222	1227	1229	341
25°	1112	1115	1129	1138	1140	512
35°	973	977	996	1007	1014	608
45°	805	814	832	849	854	621
55°	622	630	656	681	693	554
65°	422	436	476	527	541	415
75°	217	243	308	350	368	229
85°	49	72	110	130	140	59
90°	0	0	0	0	0	



TEST NUMBER: P217902

CATALOG NUMBER: R2X-WO-4L40-LD5-UNV-22

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1276.3	1276.3	1276.3	1276.3	1276.3
2.5°	1269.3	1271.0	1278.0	1279.8	1279.8
5°	1264.0	1267.5	1274.5	1276.3	1276.3
7.5°	1255.3	1258.8	1265.8	1269.3	1267.5
10°	1244.7	1246.5	1255.3	1258.8	1257.0
12.5°	1229.0	1232.5	1241.2	1244.7	1246.5
15°	1209.7	1215.0	1222.0	1227.2	1229.0
17.5°	1190.5	1194.0	1202.7	1208.0	1209.7
20°	1166.0	1169.5	1180.0	1187.0	1188.7
22.5°	1141.5	1143.2	1155.5	1164.2	1167.7
25°	1111.7	1115.2	1129.2	1138.0	1139.7
27.5°	1080.2	1085.4	1099.4	1108.2	1111.7
30°	1045.2	1052.2	1066.2	1076.7	1078.4
32.5°	1010.2	1017.2	1032.9	1045.2	1046.9
35°	973.4	976.9	996.1	1006.7	1013.7
37.5°	934.9	940.1	955.9	969.9	973.4
40°	889.4	899.9	915.6	929.6	934.9
42.5°	849.1	856.1	875.3	889.4	898.1
45°	805.3	814.1	831.6	849.1	854.3
47.5°	761.6	770.3	789.6	807.1	814.1
50°	714.3	723.0	745.8	765.1	770.3
52.5°	670.5	679.3	702.0	721.3	733.5
55°	621.5	630.3	656.5	681.0	693.3
57.5°	569.0	583.0	609.2	639.0	654.8
60°	521.7	532.2	563.7	604.0	621.5
62.5°	469.2	483.2	520.0	565.5	581.2
65°	421.9	435.9	476.2	527.0	541.0
67.5°	367.6	385.2	435.9	484.9	498.9
70°	316.9	336.1	393.9	441.2	458.7
72.5°	264.4	288.9	351.9	397.4	413.2
75°	217.1	243.3	308.1	350.1	367.6
77.5°	166.3	201.3	262.6	306.4	322.1
80°	122.5	157.6	213.6	257.4	273.1
82.5°	84.0	113.8	162.8	199.6	210.1
85°	49.0	71.8	110.3	129.6	140.1
87.5°	21.0	33.3	50.8	63.0	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)