

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: P217900

Luminaire Tested: **R2X-WO-2L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217900  
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-2L40-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 2, 4000K CCT.  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2711.8 lumens  
Efficiency: N/A  
Efficacy: 123.3 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

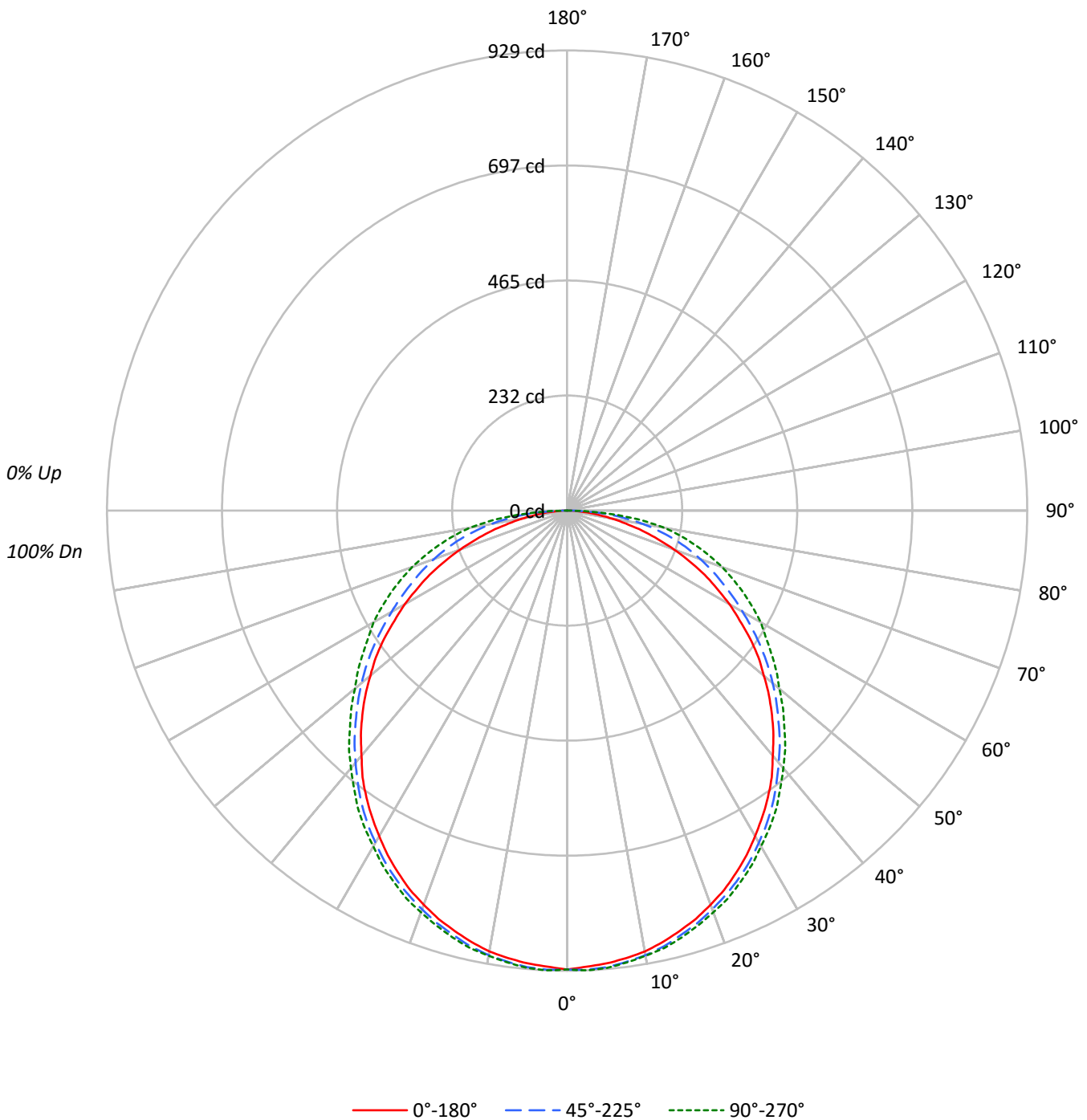
Input Watts (W): 22  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2493	2493	2493
5°	2479	2499	2503
10°	2469	2490	2494
15°	2447	2472	2486
20°	2424	2453	2471
25°	2396	2434	2457
30°	2358	2405	2433
35°	2322	2376	2417
40°	2268	2335	2384
45°	2225	2297	2361
50°	2171	2267	2341
55°	2117	2236	2361
60°	2039	2203	2428
65°	1950	2201	2500
70°	1810	2250	2620
75°	1639	2326	2775
80°	1379	2404	3073
85°	1099	2473	3140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	3.2
10°-20°	250.1	9.2
20°-30°	376.9	13.9
30°-40°	451.1	16.6
40°-50°	465.7	17.2
50°-60°	426.2	15.7
60°-70°	344.6	12.7
70°-80°	228.9	8.4
80°-90°	80.5	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°	714.7	26.4
0°-40°	1165.9	43.0
0°-60°	2057.8	75.9
0°-90°	2711.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	918	920	925	927	927	87
15°	878	882	887	891	892	248
25°	807	810	820	826	827	372
35°	707	709	723	731	736	442
45°	585	591	604	616	620	451
55°	451	458	477	494	503	402
65°	306	316	346	383	393	301
75°	158	177	224	254	267	166
85°	36	52	80	94	102	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	926.6	926.6	926.6	926.6	926.6
2.5°	921.5	922.8	927.8	929.1	929.1
5°	917.7	920.2	925.3	926.6	926.6
7.5°	911.3	913.9	918.9	921.5	920.2
10°	903.7	905.0	911.3	913.9	912.6
12.5°	892.3	894.8	901.2	903.7	905.0
15°	878.3	882.1	887.2	891.0	892.3
17.5°	864.3	866.8	873.2	877.0	878.3
20°	846.5	849.0	856.7	861.8	863.0
22.5°	828.7	830.0	838.9	845.2	847.8
25°	807.1	809.6	819.8	826.2	827.4
27.5°	784.2	788.0	798.2	804.6	807.1
30°	758.8	763.9	774.1	781.7	782.9
32.5°	733.4	738.5	749.9	758.8	760.1
35°	706.7	709.2	723.2	730.8	735.9
37.5°	678.7	682.5	694.0	704.1	706.7
40°	645.7	653.3	664.7	674.9	678.7
42.5°	616.4	621.5	635.5	645.7	652.0
45°	584.7	591.0	603.7	616.4	620.3
47.5°	552.9	559.2	573.2	585.9	591.0
50°	518.6	524.9	541.5	555.4	559.2
52.5°	486.8	493.2	509.7	523.7	532.6
55°	451.2	457.6	476.6	494.4	503.3
57.5°	413.1	423.3	442.3	463.9	475.4
60°	378.8	386.4	409.3	438.5	451.2
62.5°	340.6	350.8	377.5	410.5	422.0
65°	306.3	316.5	345.7	382.6	392.7
67.5°	266.9	279.6	316.5	352.1	362.2
70°	230.1	244.0	286.0	320.3	333.0
72.5°	191.9	209.7	255.5	288.5	300.0
75°	157.6	176.7	223.7	254.2	266.9
77.5°	120.7	146.2	190.7	222.4	233.9
80°	89.0	114.4	155.1	186.8	198.3
82.5°	61.0	82.6	118.2	144.9	152.5
85°	35.6	52.1	80.1	94.1	101.7
87.5°	15.3	24.1	36.9	45.8	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)