

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: P217893

Luminaire Tested: **R2X-WO-6L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217893  
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-6L30-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 6, 3000K CCT.  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4431.6 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

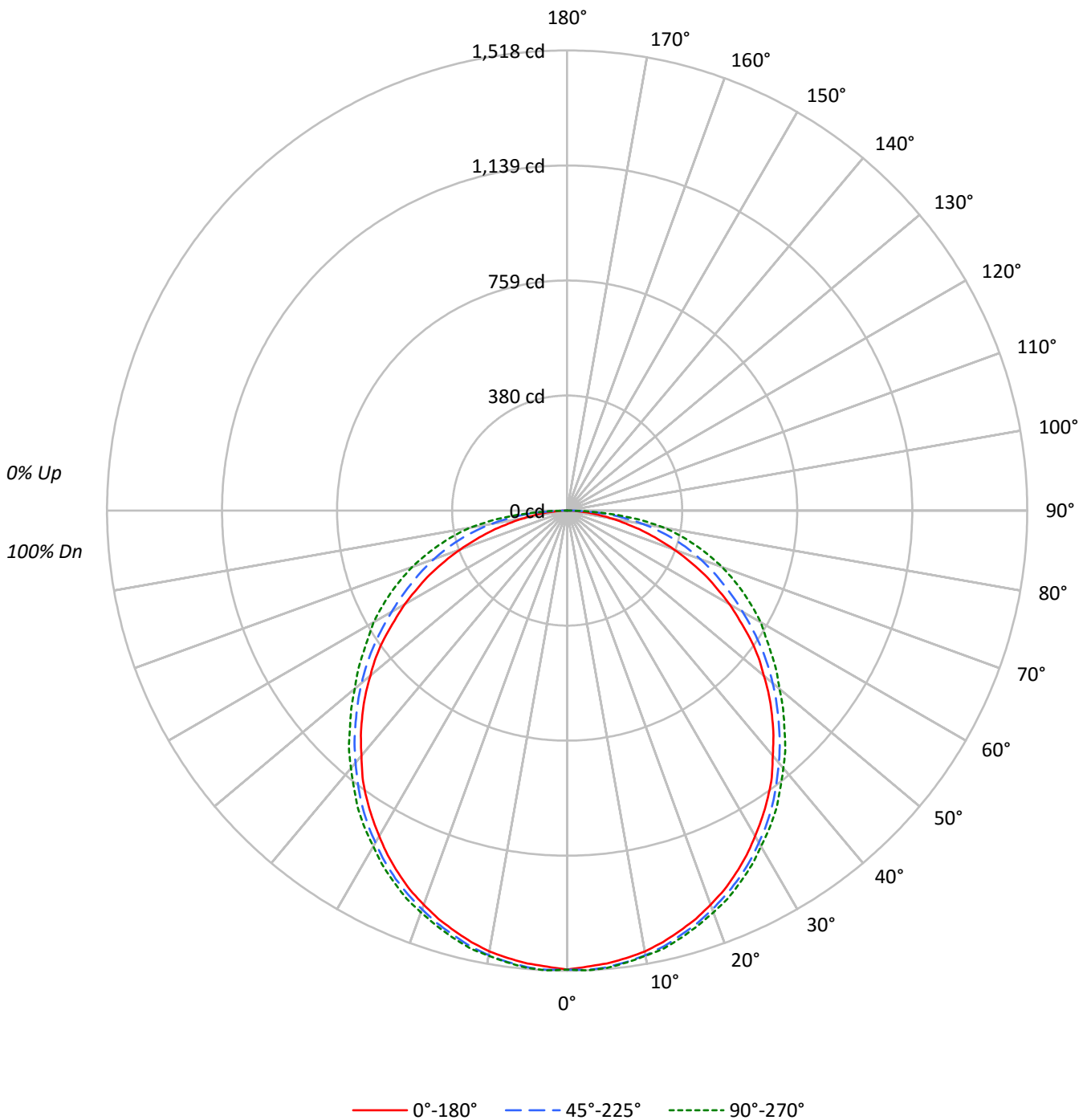
Input Watts (W): 43.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4075	4075	4075
5°	4051	4085	4090
10°	4035	4069	4075
15°	3999	4039	4062
20°	3961	4009	4039
25°	3916	3978	4015
30°	3853	3930	3976
35°	3794	3883	3951
40°	3707	3816	3896
45°	3636	3755	3857
50°	3548	3704	3826
55°	3460	3654	3859
60°	3331	3599	3969
65°	3188	3598	4087
70°	2958	3677	4282
75°	2678	3801	4535
80°	2253	3927	5021
85°	1797	4042	5132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.3	3.2
10°-20°	408.8	9.2
20°-30°	616.0	13.9
30°-40°	737.3	16.6
40°-50°	761.1	17.2
50°-60°	696.5	15.7
60°-70°	563.1	12.7
70°-80°	374.0	8.4
80°-90°	131.6	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°	1168.0	26.4
0°-40°	1905.3	43.0
0°-60°	3362.9	75.9
0°-90°	4431.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4431.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1500	1504	1512	1514	1514	142
15°	1435	1442	1450	1456	1458	405
25°	1319	1323	1340	1350	1352	607
35°	1155	1159	1182	1194	1203	722
45°	956	966	987	1007	1014	737
55°	737	748	779	808	822	658
65°	501	517	565	625	642	493
75°	258	289	366	415	436	271
85°	58	85	131	154	166	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1505.9	1508.0	1516.3	1518.3	1518.3
5°	1499.6	1503.8	1512.1	1514.2	1514.2
7.5°	1489.3	1493.4	1501.7	1505.9	1503.8
10°	1476.8	1478.9	1489.3	1493.4	1491.3
12.5°	1458.1	1462.3	1472.6	1476.8	1478.9
15°	1435.3	1441.5	1449.8	1456.0	1458.1
17.5°	1412.4	1416.6	1427.0	1433.2	1435.3
20°	1383.3	1387.5	1399.9	1408.3	1410.3
22.5°	1354.3	1356.3	1370.9	1381.3	1385.4
25°	1318.9	1323.1	1339.7	1350.1	1352.2
27.5°	1281.6	1287.8	1304.4	1314.8	1318.9
30°	1240.0	1248.3	1264.9	1277.4	1279.5
32.5°	1198.5	1206.8	1225.5	1240.0	1242.1
35°	1154.9	1159.0	1181.9	1194.3	1202.6
37.5°	1109.2	1115.4	1134.1	1150.7	1154.9
40°	1055.2	1067.6	1086.3	1102.9	1109.2
42.5°	1007.4	1015.7	1038.5	1055.2	1065.5
45°	955.5	965.8	986.6	1007.4	1013.6
47.5°	903.5	913.9	936.8	957.5	965.8
50°	847.4	857.8	884.8	907.7	913.9
52.5°	795.5	805.9	832.9	855.8	870.3
55°	737.4	747.7	778.9	808.0	822.5
57.5°	675.0	691.7	722.8	758.1	776.8
60°	619.0	631.4	668.8	716.6	737.4
62.5°	556.7	573.3	616.9	670.9	689.6
65°	500.6	517.2	565.0	625.2	641.8
67.5°	436.2	457.0	517.2	575.3	592.0
70°	376.0	398.8	467.3	523.4	544.2
72.5°	313.6	342.7	417.5	471.5	490.2
75°	257.6	288.7	365.6	415.4	436.2
77.5°	197.3	238.9	311.6	363.5	382.2
80°	145.4	186.9	253.4	305.3	324.0
82.5°	99.7	135.0	193.2	236.8	249.2
85°	58.2	85.2	130.9	153.7	166.2
87.5°	24.9	39.5	60.2	74.8	72.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)