

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: P217907

Luminaire Tested: **R2X-WO-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217907  
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-3L30-LD5-UNV-24  
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 3, 3000K CCT.  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

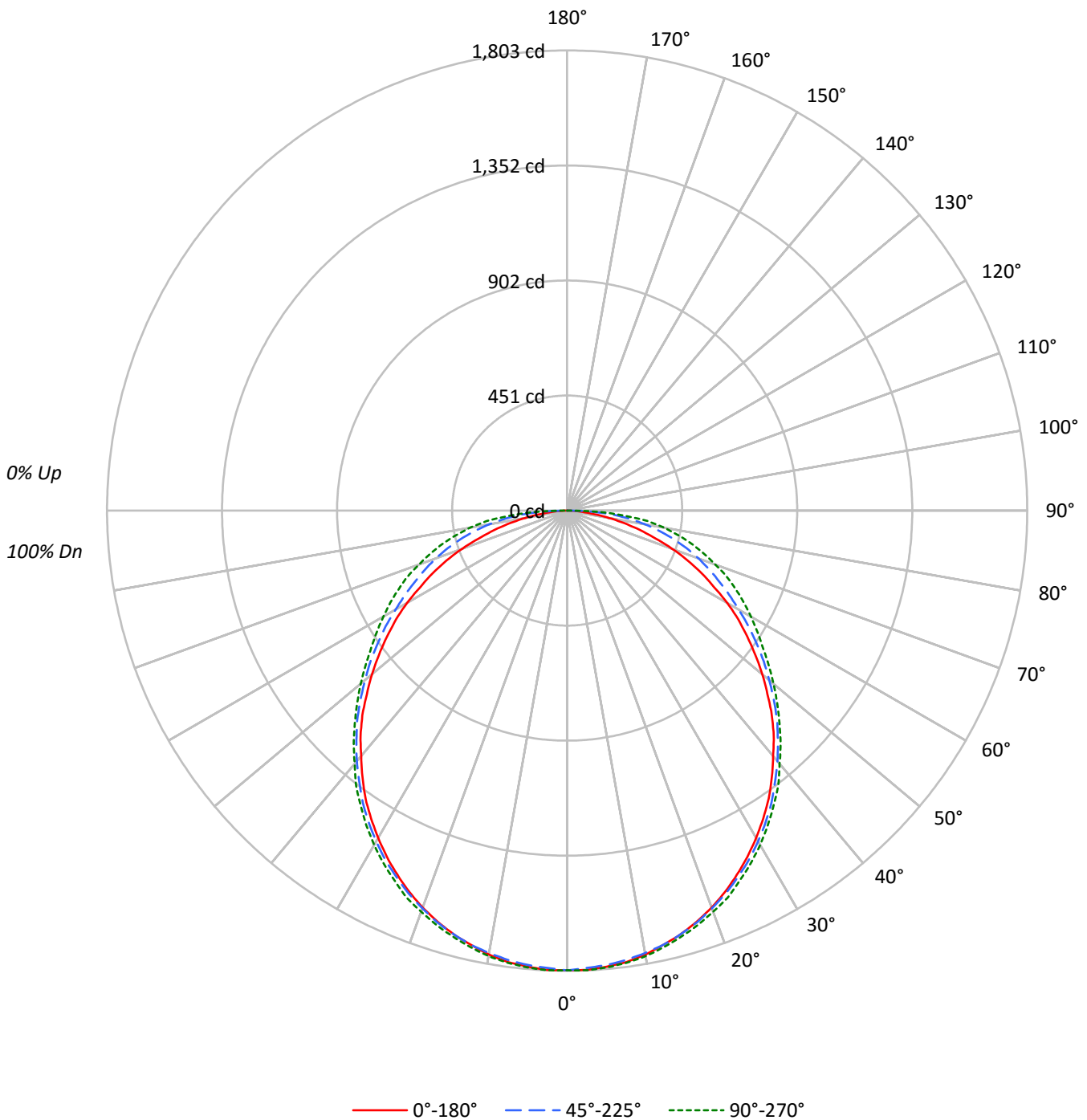
Lumens per Lamp: N/A  
Luminaire Lumens: 5227.5 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 45.4  
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°	2424	2424	2424
5°	2422	2414	2427
10°	2413	2405	2422
15°	2394	2394	2407
20°	2370	2375	2395
25°	2337	2351	2375
30°	2300	2325	2350
35°	2263	2294	2317
40°	2205	2252	2275
45°	2159	2214	2238
50°	2090	2163	2209
55°	2022	2122	2197
60°	1952	2088	2238
65°	1855	2092	2319
70°	1723	2154	2429
75°	1543	2244	2632
80°	1291	2398	2989
85°	931	2745	3406



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.4	3.3
10°-20°	486.2	9.3
20°-30°	731.7	14.0
30°-40°	872.7	16.7
40°-50°	894.7	17.1
50°-60°	810.3	15.5
60°-70°	651.9	12.5
70°-80°	438.4	8.4
80°-90°	171.3	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°	1388.3	26.6
0°-40°	2260.9	43.3
0°-60°	3965.9	75.9
0°-90°	5227.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5227.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1793	1793	1787	1797	1797	170
15°	1719	1722	1719	1730	1728	485
25°	1574	1579	1584	1600	1600	725
35°	1378	1384	1397	1408	1411	860
45°	1135	1146	1163	1174	1176	873
55°	862	884	905	930	936	771
65°	582	606	657	716	728	575
75°	297	341	432	486	506	314
85°	60	116	178	208	221	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1801.3	1801.3	1801.3	1801.3	1801.3
2.5°	1801.3	1801.3	1793.4	1802.9	1802.9
5°	1793.4	1793.4	1787.0	1796.6	1796.6
7.5°	1783.9	1783.9	1775.9	1787.0	1787.0
10°	1766.4	1766.4	1760.1	1772.7	1772.7
12.5°	1742.6	1747.4	1742.6	1753.7	1752.1
15°	1718.8	1722.0	1718.8	1729.9	1728.3
17.5°	1688.6	1691.8	1691.8	1702.9	1702.9
20°	1655.3	1658.5	1658.5	1672.8	1672.8
22.5°	1617.2	1622.0	1623.6	1639.4	1642.6
25°	1574.4	1579.1	1583.9	1599.8	1599.8
27.5°	1529.9	1534.7	1542.6	1558.5	1558.5
30°	1480.7	1488.7	1496.6	1514.1	1512.5
32.5°	1429.9	1437.9	1447.4	1461.7	1463.3
35°	1377.6	1383.9	1396.6	1407.7	1410.9
37.5°	1317.3	1326.8	1337.9	1356.9	1358.5
40°	1255.4	1266.5	1282.3	1298.2	1295.0
42.5°	1198.2	1209.3	1222.0	1237.9	1237.9
45°	1134.7	1145.9	1163.3	1174.4	1176.0
47.5°	1064.9	1082.4	1098.2	1114.1	1115.7
50°	998.3	1017.3	1033.2	1053.8	1055.4
52.5°	930.0	950.6	971.3	990.3	995.1
55°	861.8	884.0	904.6	930.0	936.4
57.5°	795.1	817.3	842.7	871.3	884.0
60°	725.3	749.1	776.1	817.3	831.6
62.5°	649.1	676.1	715.8	765.0	780.8
65°	582.5	606.3	657.0	715.8	728.5
67.5°	511.0	534.8	601.5	660.2	677.7
70°	438.0	468.2	547.5	604.7	617.4
72.5°	363.4	403.1	490.4	545.9	561.8
75°	296.8	341.2	431.7	485.6	506.3
77.5°	230.1	285.7	371.4	423.7	446.0
80°	166.6	231.7	309.5	361.8	385.7
82.5°	106.3	171.4	246.0	300.0	319.0
85°	60.3	115.9	177.8	207.9	220.6
87.5°	23.8	57.1	95.2	125.4	133.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)