

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: P217887

Luminaire Tested: **R2X-WO-5L40-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35828-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2X-WO-5L40-LD5-UNV-14  
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 5, 4000K CCT.  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6708.3 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

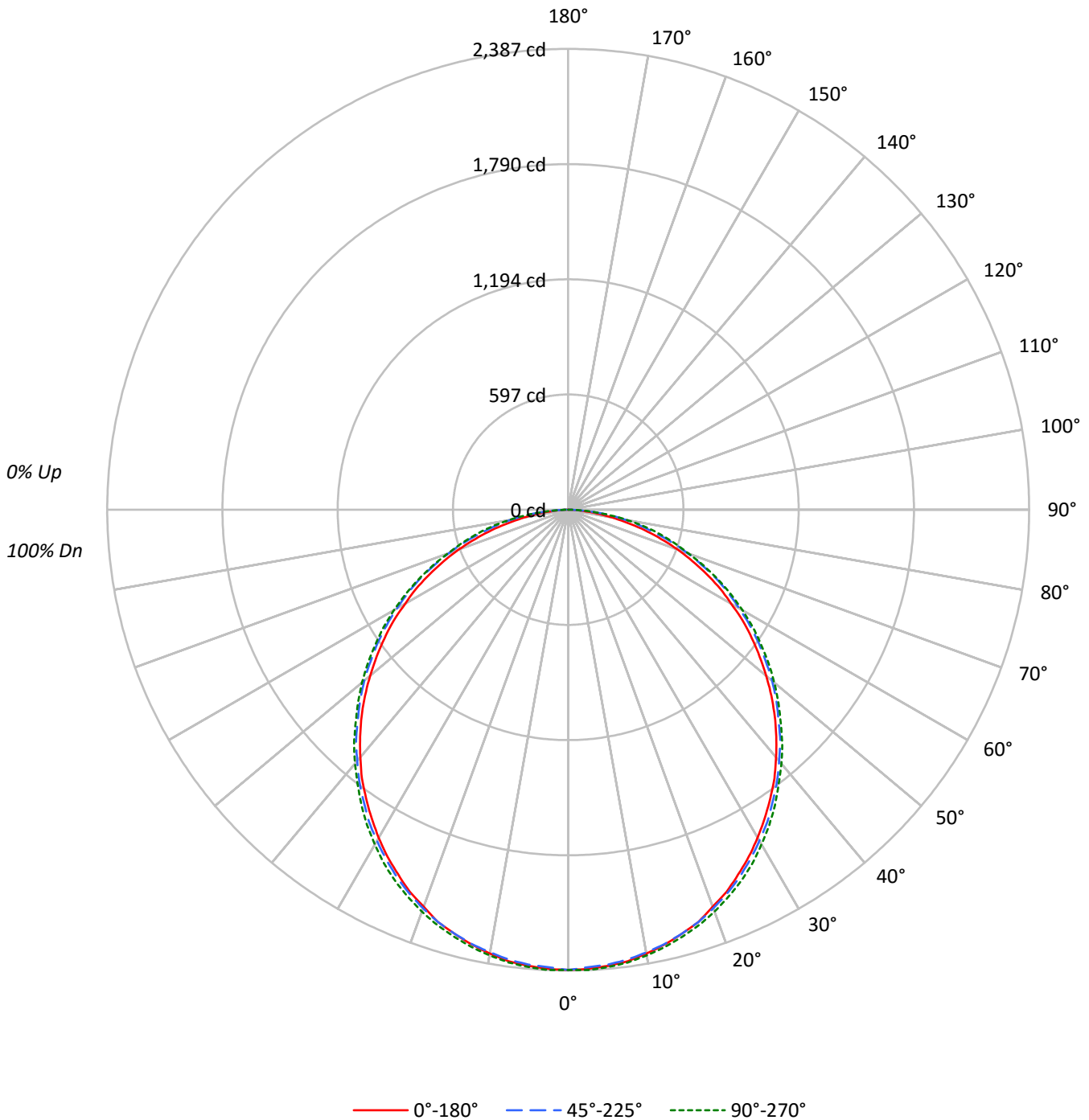
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	6414	6414	6414
5°	6406	6389	6423
10°	6380	6363	6405
15°	6334	6334	6377
20°	6266	6292	6345
25°	6188	6234	6297
30°	6096	6153	6220
35°	5993	6064	6134
40°	5883	5969	6033
45°	5757	5861	5920
50°	5604	5770	5834
55°	5448	5649	5720
60°	5247	5510	5609
65°	5040	5390	5449
70°	4736	5169	5217
75°	4258	4862	5148
80°	3504	4641	4830
85°	2455	4057	3964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.4	3.4
10°-20°	643.4	9.6
20°-30°	969.2	14.4
30°-40°	1156.6	17.2
40°-50°	1188.4	17.7
50°-60°	1072.0	16.0
60°-70°	825.8	12.3
70°-80°	488.6	7.3
80°-90°	138.9	2.1
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°	1838.0	27.4
0°-40°	2994.6	44.6
0°-60°	5255.0	78.3
0°-90°	6708.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6708.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2384	2384	2384	2384	2384	
5°	2371	2374	2365	2378	2378	225
15°	2274	2277	2274	2289	2289	642
25°	2084	2096	2100	2118	2121	961
35°	1824	1837	1846	1864	1867	1142
45°	1513	1525	1540	1556	1556	1166
55°	1161	1183	1204	1219	1219	1038
65°	792	816	846	859	856	783
75°	410	440	468	486	495	434
85°	80	113	131	134	128	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2383.7	2383.7	2383.7	2383.7	2383.7
2.5°	2380.6	2383.7	2371.4	2386.7	2386.7
5°	2371.4	2374.5	2365.3	2377.6	2377.6
7.5°	2359.2	2359.2	2350.1	2365.3	2365.3
10°	2334.8	2337.8	2328.7	2343.9	2343.9
12.5°	2307.3	2310.3	2304.2	2319.5	2319.5
15°	2273.7	2276.7	2273.7	2288.9	2288.9
17.5°	2240.0	2240.0	2240.0	2252.3	2255.3
20°	2188.1	2197.3	2197.3	2212.5	2215.6
22.5°	2142.2	2148.4	2151.4	2169.7	2169.7
25°	2084.2	2096.4	2099.5	2117.8	2120.9
27.5°	2026.1	2038.3	2041.4	2062.8	2065.8
30°	1961.9	1974.2	1980.3	2001.7	2001.7
32.5°	1894.7	1910.0	1919.2	1934.4	1937.5
35°	1824.4	1836.6	1845.8	1864.2	1867.2
37.5°	1754.1	1763.3	1775.5	1793.9	1790.8
40°	1674.7	1686.9	1699.1	1717.5	1717.5
42.5°	1595.2	1613.6	1625.8	1638.0	1641.1
45°	1512.7	1524.9	1540.2	1555.5	1555.5
47.5°	1427.1	1442.4	1460.8	1473.0	1476.0
50°	1338.5	1356.9	1378.2	1393.5	1393.5
52.5°	1249.9	1268.2	1289.6	1308.0	1308.0
55°	1161.3	1182.7	1204.1	1219.3	1219.3
57.5°	1072.7	1094.0	1115.4	1133.8	1133.8
60°	974.9	1002.4	1023.8	1039.0	1042.1
62.5°	889.3	907.6	935.1	950.4	950.4
65°	791.5	815.9	846.5	858.7	855.7
67.5°	696.8	718.2	748.7	770.1	760.9
70°	602.0	623.4	657.0	663.1	663.1
72.5°	504.2	534.8	565.4	571.5	577.6
75°	409.5	440.1	467.6	485.9	495.1
77.5°	317.8	348.4	382.0	400.3	406.4
80°	226.1	262.8	299.5	311.7	311.7
82.5°	149.7	180.3	213.9	217.0	220.0
85°	79.5	113.1	131.4	134.5	128.4
87.5°	30.6	42.8	52.0	55.0	55.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)