

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: P217910

Luminaire Tested: **R2X-WO-2L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217910  
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-2L35-LD5-UNV-24  
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 2, 3500K CCT.  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

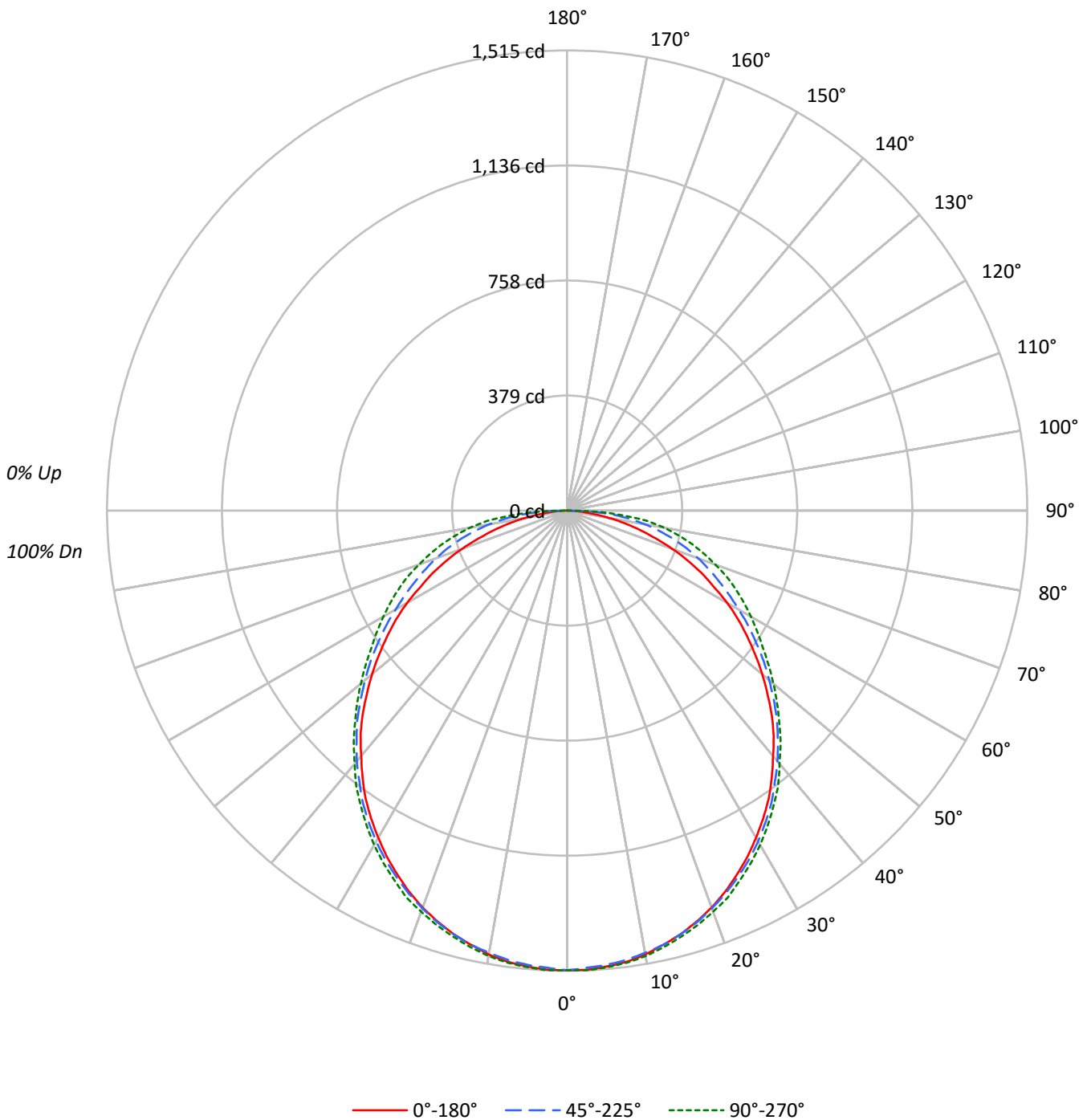
Lumens per Lamp: N/A  
Luminaire Lumens: 4391.6 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 34.9  
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°	2036	2036	2036
5°	2035	2028	2039
10°	2027	2020	2035
15°	2011	2011	2022
20°	1991	1995	2012
25°	1964	1975	1995
30°	1933	1953	1974
35°	1901	1927	1947
40°	1852	1892	1911
45°	1814	1860	1880
50°	1755	1817	1856
55°	1698	1783	1845
60°	1640	1755	1880
65°	1558	1757	1948
70°	1448	1810	2040
75°	1296	1886	2211
80°	1085	2015	2510
85°	783	2305	2861



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	3.3
10°-20°	408.5	9.3
20°-30°	614.7	14.0
30°-40°	733.1	16.7
40°-50°	751.6	17.1
50°-60°	680.7	15.5
60°-70°	547.6	12.5
70°-80°	368.3	8.4
80°-90°	143.9	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°	1166.3	26.6
0°-40°	1899.4	43.3
0°-60°	3331.7	75.9
0°-90°	4391.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4391.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1507	1507	1501	1509	1509	143
15°	1444	1447	1444	1453	1452	407
25°	1323	1327	1331	1344	1344	609
35°	1157	1163	1173	1183	1185	722
45°	953	963	977	987	988	734
55°	724	743	760	781	787	648
65°	489	509	552	601	612	483
75°	249	287	363	408	425	264
85°	51	97	149	175	185	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1513.3	1513.3	1513.3	1513.3	1513.3
2.5°	1513.3	1513.3	1506.6	1514.6	1514.6
5°	1506.6	1506.6	1501.3	1509.3	1509.3
7.5°	1498.6	1498.6	1491.9	1501.3	1501.3
10°	1483.9	1483.9	1478.6	1489.3	1489.3
12.5°	1463.9	1467.9	1463.9	1473.3	1471.9
15°	1443.9	1446.6	1443.9	1453.3	1451.9
17.5°	1418.6	1421.3	1421.3	1430.6	1430.6
20°	1390.6	1393.3	1393.3	1405.3	1405.3
22.5°	1358.6	1362.6	1363.9	1377.3	1379.9
25°	1322.6	1326.6	1330.6	1343.9	1343.9
27.5°	1285.3	1289.3	1295.9	1309.3	1309.3
30°	1243.9	1250.6	1257.3	1271.9	1270.6
32.5°	1201.3	1208.0	1216.0	1228.0	1229.3
35°	1157.3	1162.6	1173.3	1182.6	1185.3
37.5°	1106.6	1114.6	1124.0	1140.0	1141.3
40°	1054.6	1064.0	1077.3	1090.6	1088.0
42.5°	1006.6	1016.0	1026.6	1040.0	1040.0
45°	953.3	962.6	977.3	986.6	988.0
47.5°	894.6	909.3	922.6	936.0	937.3
50°	838.6	854.6	868.0	885.3	886.6
52.5°	781.3	798.6	816.0	832.0	836.0
55°	724.0	742.6	760.0	781.3	786.6
57.5°	668.0	686.6	708.0	732.0	742.6
60°	609.3	629.3	652.0	686.6	698.6
62.5°	545.3	568.0	601.3	642.6	656.0
65°	489.3	509.3	552.0	601.3	612.0
67.5°	429.3	449.3	505.3	554.6	569.3
70°	368.0	393.3	460.0	508.0	518.6
72.5°	305.3	338.7	412.0	458.6	472.0
75°	249.3	286.7	362.7	408.0	425.3
77.5°	193.3	240.0	312.0	356.0	374.7
80°	140.0	194.7	260.0	304.0	324.0
82.5°	89.3	144.0	206.7	252.0	268.0
85°	50.7	97.3	149.3	174.7	185.3
87.5°	20.0	48.0	80.0	105.3	112.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)