

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: P217897

Luminaire Tested: **R2X-WO-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217897  
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-5L35-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 5, 3500K CCT.  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4165.5 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

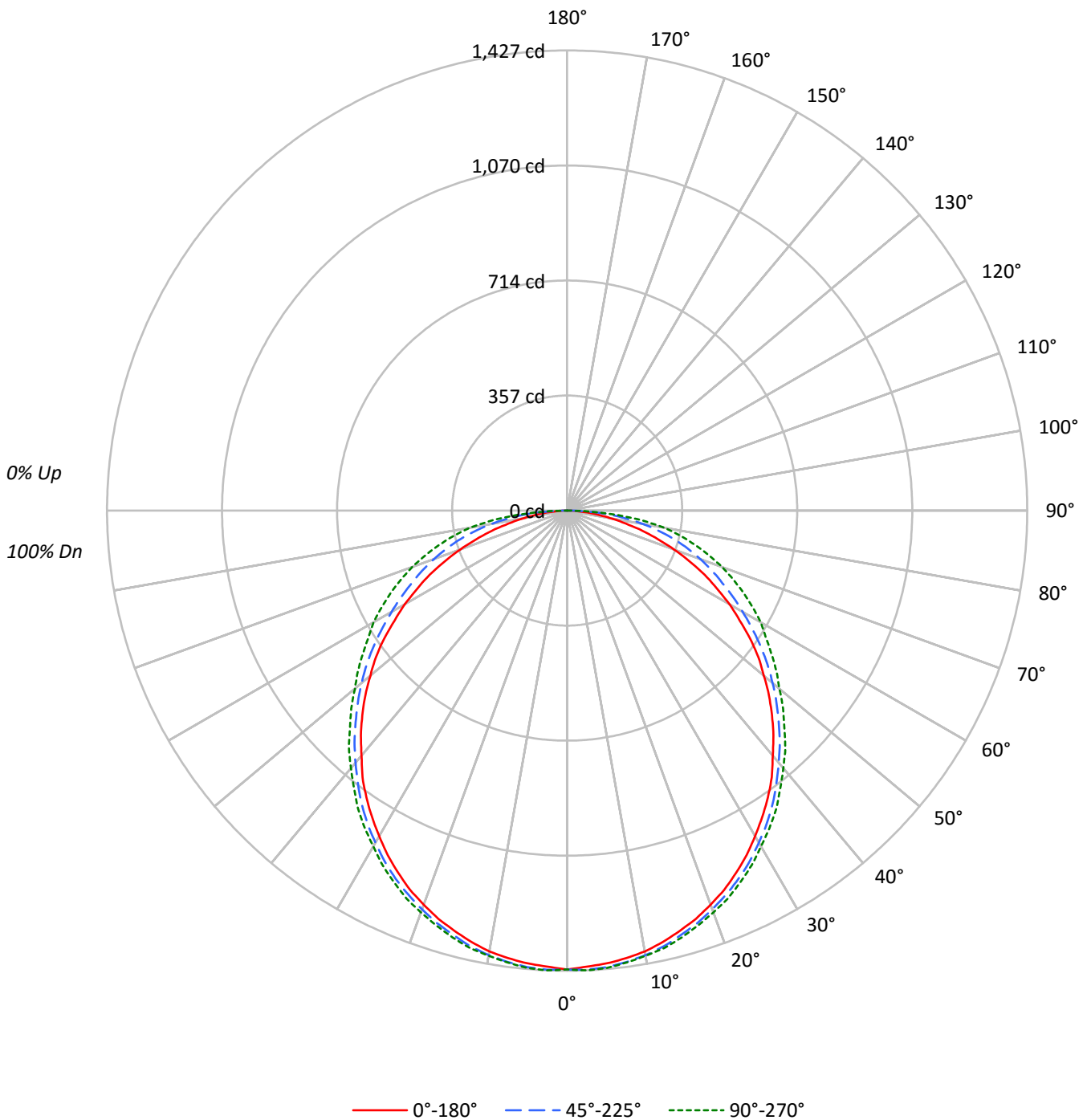
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3830	3830	3830
5°	3808	3839	3845
10°	3793	3825	3830
15°	3758	3797	3818
20°	3724	3768	3796
25°	3681	3739	3774
30°	3622	3695	3737
35°	3566	3649	3713
40°	3484	3587	3662
45°	3418	3529	3626
50°	3335	3482	3596
55°	3252	3435	3627
60°	3131	3384	3730
65°	2996	3381	3841
70°	2781	3456	4024
75°	2517	3572	4263
80°	2118	3691	4720
85°	1689	3798	4823



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	3.2
10°-20°	384.2	9.2
20°-30°	579.0	13.9
30°-40°	693.0	16.6
40°-50°	715.4	17.2
50°-60°	654.7	15.7
60°-70°	529.3	12.7
70°-80°	351.5	8.4
80°-90°	123.7	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°	1097.9	26.4
0°-40°	1790.9	43.0
0°-60°	3161.0	75.9
0°-90°	4165.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4165.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1410	1414	1421	1423	1423	134
15°	1349	1355	1363	1369	1371	381
25°	1240	1244	1259	1269	1271	571
35°	1086	1089	1111	1123	1130	678
45°	898	908	927	947	953	693
55°	693	703	732	760	773	618
65°	470	486	531	588	603	463
75°	242	271	344	390	410	255
85°	55	80	123	144	156	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1423.3	1423.3	1423.3	1423.3	1423.3
2.5°	1415.5	1417.4	1425.2	1427.2	1427.2
5°	1409.6	1413.5	1421.3	1423.3	1423.3
7.5°	1399.9	1403.8	1411.6	1415.5	1413.5
10°	1388.1	1390.1	1399.9	1403.8	1401.8
12.5°	1370.6	1374.5	1384.2	1388.1	1390.1
15°	1349.1	1354.9	1362.8	1368.6	1370.6
17.5°	1327.6	1331.5	1341.3	1347.1	1349.1
20°	1300.3	1304.2	1315.9	1323.7	1325.7
22.5°	1272.9	1274.9	1288.6	1298.3	1302.2
25°	1239.8	1243.7	1259.3	1269.0	1271.0
27.5°	1204.6	1210.5	1226.1	1235.9	1239.8
30°	1165.6	1173.4	1189.0	1200.7	1202.7
32.5°	1126.5	1134.3	1151.9	1165.6	1167.5
35°	1085.5	1089.4	1110.9	1122.6	1130.4
37.5°	1042.6	1048.4	1066.0	1081.6	1085.5
40°	991.8	1003.5	1021.1	1036.7	1042.6
42.5°	946.9	954.7	976.2	991.8	1001.6
45°	898.1	907.9	927.4	946.9	952.8
47.5°	849.3	859.0	880.5	900.0	907.9
50°	796.6	806.3	831.7	853.2	859.0
52.5°	747.8	757.5	782.9	804.4	818.0
55°	693.1	702.9	732.1	759.5	773.1
57.5°	634.5	650.1	679.4	712.6	730.2
60°	581.8	593.5	628.7	673.6	693.1
62.5°	523.2	538.9	579.9	630.6	648.2
65°	470.5	486.1	531.0	587.7	603.3
67.5°	410.0	429.5	486.1	540.8	556.4
70°	353.4	374.9	439.3	492.0	511.5
72.5°	294.8	322.1	392.4	443.2	460.8
75°	242.1	271.4	343.6	390.5	410.0
77.5°	185.5	224.5	292.9	341.7	359.2
80°	136.7	175.7	238.2	287.0	304.6
82.5°	93.7	126.9	181.6	222.6	234.3
85°	54.7	80.0	123.0	144.5	156.2
87.5°	23.4	37.1	56.6	70.3	68.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)