

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: P217898

Luminaire Tested: **R2X-WO-6L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217898  
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-6L35-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 6, 3500K CCT.  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4643.8 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

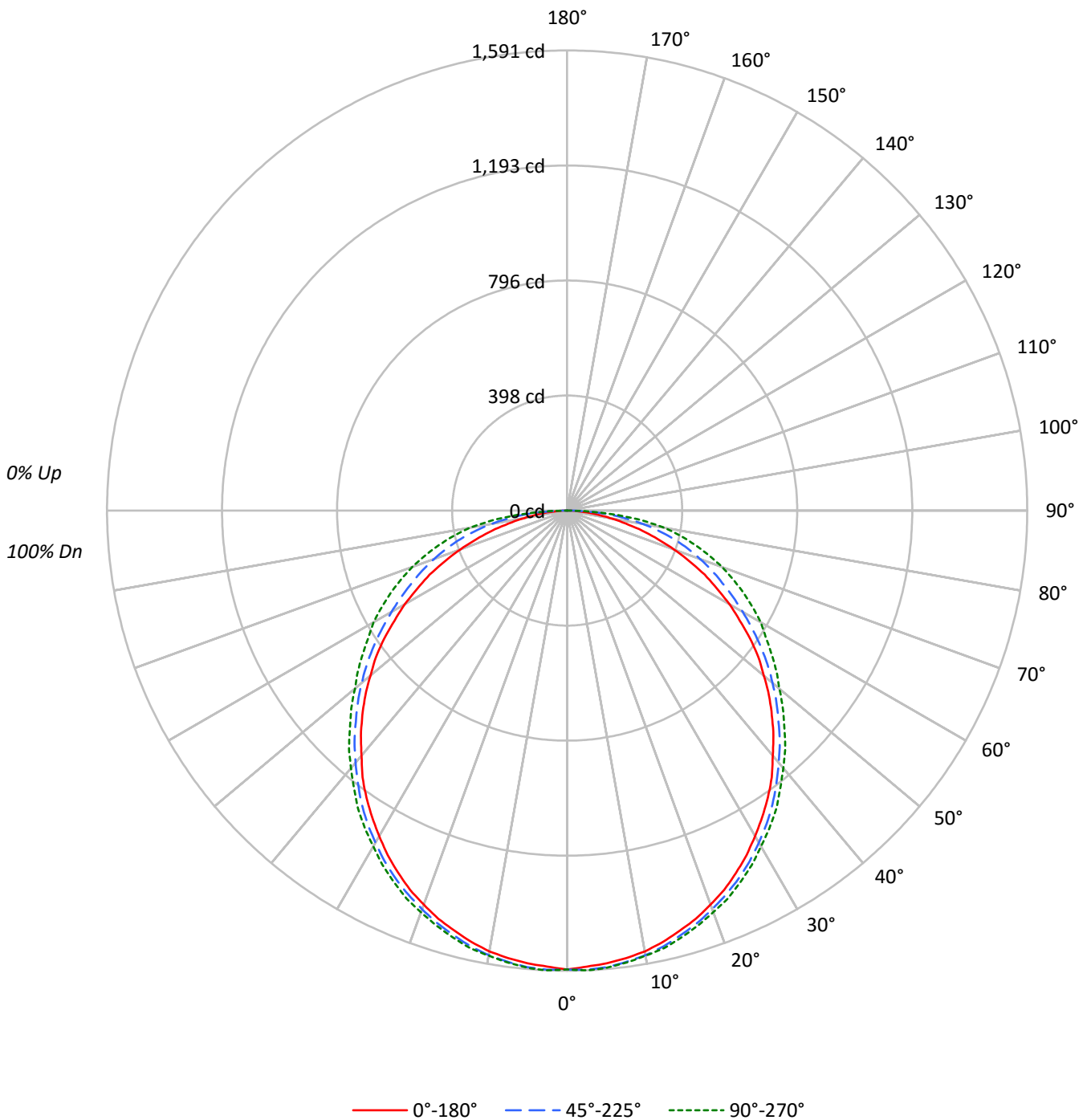
Input Watts (W): 43.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4270	4270	4270
5°	4245	4280	4286
10°	4229	4264	4270
15°	4190	4232	4257
20°	4151	4201	4232
25°	4104	4168	4207
30°	4038	4119	4166
35°	3975	4068	4140
40°	3884	3999	4083
45°	3810	3934	4042
50°	3718	3882	4009
55°	3625	3829	4044
60°	3491	3772	4159
65°	3340	3769	4282
70°	3099	3853	4486
75°	2806	3983	4753
80°	2362	4114	5261
85°	1880	4233	5375



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	3.2
10°-20°	428.3	9.2
20°-30°	645.4	13.9
30°-40°	772.6	16.6
40°-50°	797.5	17.2
50°-60°	729.8	15.7
60°-70°	590.1	12.7
70°-80°	391.9	8.4
80°-90°	137.9	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°	1223.9	26.4
0°-40°	1996.5	43.0
0°-60°	3523.9	75.9
0°-90°	4643.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4643.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1571	1576	1584	1587	1587	149
15°	1504	1510	1519	1526	1528	425
25°	1382	1386	1404	1415	1417	637
35°	1210	1214	1238	1252	1260	756
45°	1001	1012	1034	1056	1062	772
55°	773	784	816	847	862	689
65°	524	542	592	655	672	516
75°	270	302	383	435	457	284
85°	61	89	137	161	174	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1586.7	1586.7	1586.7	1586.7	1586.7
2.5°	1578.0	1580.2	1588.9	1591.0	1591.0
5°	1571.4	1575.8	1584.5	1586.7	1586.7
7.5°	1560.6	1564.9	1573.6	1578.0	1575.8
10°	1547.5	1549.7	1560.6	1564.9	1562.7
12.5°	1527.9	1532.3	1543.2	1547.5	1549.7
15°	1504.0	1510.5	1519.2	1525.7	1527.9
17.5°	1480.0	1484.4	1495.3	1501.8	1504.0
20°	1449.6	1453.9	1467.0	1475.7	1477.9
22.5°	1419.1	1421.3	1436.5	1447.4	1451.7
25°	1382.1	1386.4	1403.9	1414.7	1416.9
27.5°	1342.9	1349.4	1366.9	1377.7	1382.1
30°	1299.4	1308.1	1325.5	1338.6	1340.7
32.5°	1255.9	1264.6	1284.1	1299.4	1301.6
35°	1210.1	1214.5	1238.4	1251.5	1260.2
37.5°	1162.3	1168.8	1188.4	1205.8	1210.1
40°	1105.7	1118.7	1138.3	1155.7	1162.3
42.5°	1055.6	1064.3	1088.3	1105.7	1116.6
45°	1001.2	1012.1	1033.8	1055.6	1062.1
47.5°	946.8	957.7	981.6	1003.4	1012.1
50°	888.0	898.9	927.2	951.1	957.7
52.5°	833.6	844.5	872.8	896.7	912.0
55°	772.7	783.5	816.2	846.7	861.9
57.5°	707.4	724.8	757.4	794.4	814.0
60°	648.6	661.7	700.8	750.9	772.7
62.5°	583.3	600.7	646.4	703.0	722.6
65°	524.5	542.0	592.0	655.1	672.5
67.5°	457.1	478.8	542.0	602.9	620.3
70°	393.9	417.9	489.7	548.5	570.2
72.5°	328.7	359.1	437.5	494.1	513.7
75°	269.9	302.5	383.1	435.3	457.1
77.5°	206.8	250.3	326.5	380.9	400.5
80°	152.4	195.9	265.5	319.9	339.5
82.5°	104.5	141.5	202.4	248.1	261.2
85°	60.9	89.2	137.1	161.1	174.1
87.5°	26.1	41.4	63.1	78.4	76.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)