

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: P217918

Luminaire Tested: **R2X-WO-5L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217918
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-5L40-LD5-UNV-24
Description: CLASS R2X 2X4 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: 7915.7 lumens
Efficiency: N/A
Efficacy: 111.0 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

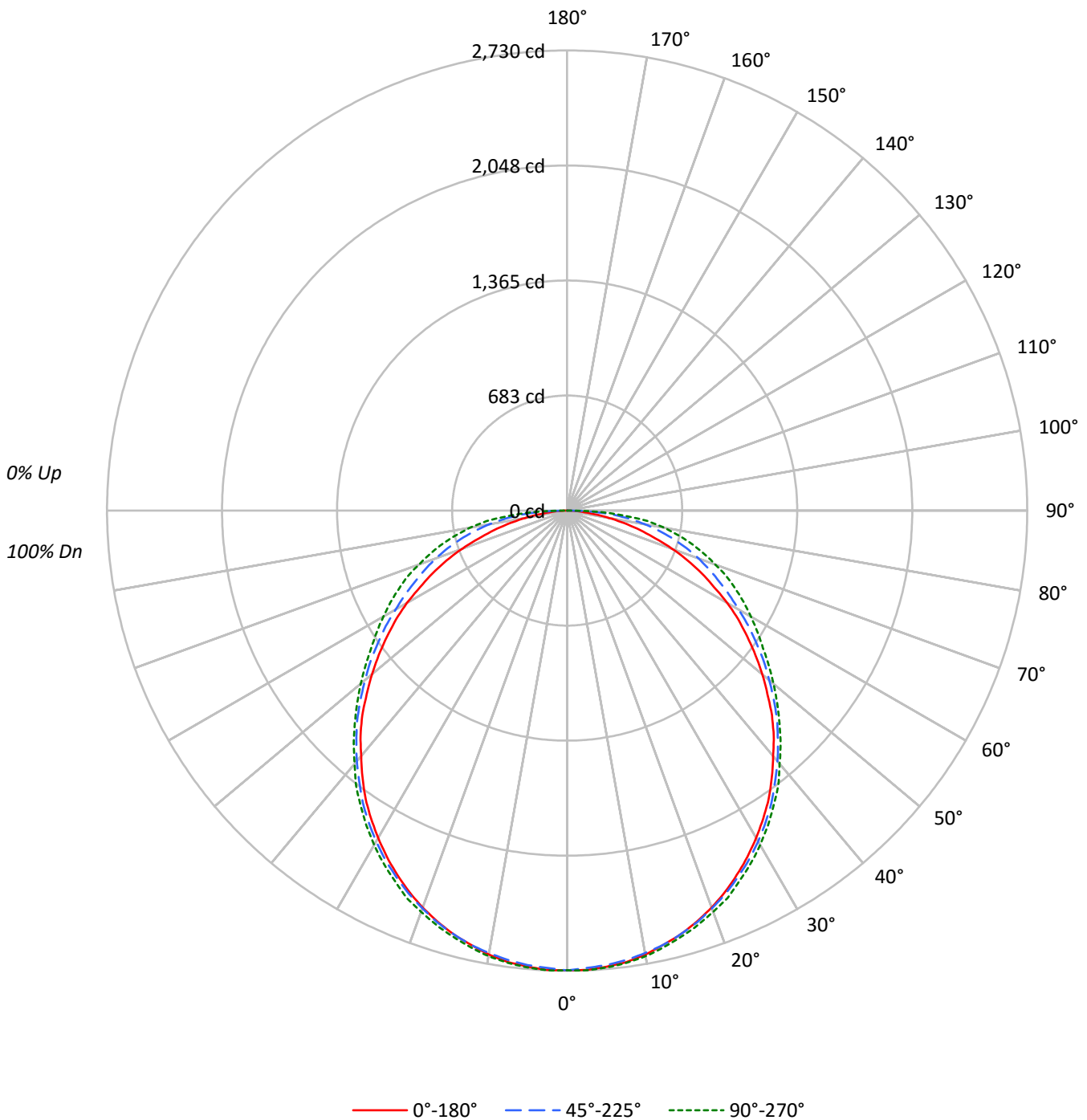
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3670	3670	3670
5°	3668	3655	3674
10°	3654	3641	3668
15°	3625	3625	3645
20°	3589	3596	3627
25°	3539	3561	3596
30°	3484	3521	3558
35°	3426	3474	3509
40°	3339	3411	3444
45°	3270	3352	3389
50°	3164	3275	3345
55°	3061	3213	3326
60°	2956	3162	3389
65°	2808	3167	3512
70°	2609	3262	3678
75°	2336	3398	3985
80°	1955	3631	4525
85°	1409	4156	5156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	3.3
10°-20°	736.3	9.3
20°-30°	1107.9	14.0
30°-40°	1321.5	16.7
40°-50°	1354.8	17.1
50°-60°	1227.0	15.5
60°-70°	987.1	12.5
70°-80°	663.9	8.4
80°-90°	259.4	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°	2102.2	26.6
0°-40°	3423.6	43.3
0°-60°	6005.4	75.9
0°-90°	7915.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7915.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2728	2728	2728	2728	2728	
5°	2716	2716	2706	2720	2720	258
15°	2603	2608	2603	2620	2617	734
25°	2384	2391	2398	2422	2422	1099
35°	2086	2096	2115	2132	2136	1302
45°	1718	1735	1762	1778	1781	1322
55°	1305	1339	1370	1408	1418	1168
65°	882	918	995	1084	1103	871
75°	449	517	654	735	767	476
85°	91	175	269	315	334	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2727.7	2727.7	2727.7	2727.7	2727.7
2.5°	2727.7	2727.7	2715.6	2730.1	2730.1
5°	2715.6	2715.6	2706.0	2720.4	2720.4
7.5°	2701.2	2701.2	2689.2	2706.0	2706.0
10°	2674.8	2674.8	2665.2	2684.4	2684.4
12.5°	2638.7	2645.9	2638.7	2655.6	2653.2
15°	2602.7	2607.5	2602.7	2619.5	2617.1
17.5°	2557.0	2561.8	2561.8	2578.7	2578.7
20°	2506.6	2511.4	2511.4	2533.0	2533.0
22.5°	2448.9	2456.1	2458.5	2482.5	2487.3
25°	2384.0	2391.2	2398.4	2422.4	2422.4
27.5°	2316.7	2323.9	2335.9	2360.0	2360.0
30°	2242.2	2254.2	2266.2	2292.7	2290.3
32.5°	2165.3	2177.3	2191.7	2213.4	2215.8
35°	2086.0	2095.6	2114.8	2131.7	2136.5
37.5°	1994.7	2009.1	2025.9	2054.8	2057.2
40°	1900.9	1917.8	1941.8	1965.8	1961.0
42.5°	1814.4	1831.3	1850.5	1874.5	1874.5
45°	1718.3	1735.1	1761.6	1778.4	1780.8
47.5°	1612.6	1639.0	1663.0	1687.1	1689.5
50°	1511.6	1540.5	1564.5	1595.7	1598.1
52.5°	1408.3	1439.5	1470.8	1499.6	1506.8
55°	1304.9	1338.6	1369.8	1408.3	1417.9
57.5°	1204.0	1237.7	1276.1	1319.4	1338.6
60°	1098.3	1134.3	1175.2	1237.7	1259.3
62.5°	982.9	1023.8	1083.9	1158.4	1182.4
65°	882.0	918.0	994.9	1083.9	1103.1
67.5°	773.8	809.9	910.8	999.7	1026.2
70°	663.3	709.0	829.1	915.6	934.9
72.5°	550.3	610.4	742.6	826.7	850.7
75°	449.4	516.7	653.7	735.4	766.6
77.5°	348.5	432.6	562.4	641.7	675.3
80°	252.3	350.9	468.6	547.9	584.0
82.5°	161.0	259.5	372.5	454.2	483.0
85°	91.3	175.4	269.2	314.8	334.0
87.5°	36.0	86.5	144.2	189.9	201.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)