

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: P217909

Luminaire Tested: **R2X-WO-5L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217909
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-5L30-LD5-UNV-24
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 5, 3000K CCT.
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7406.9 lumens
Efficiency: N/A
Efficacy: 103.9 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

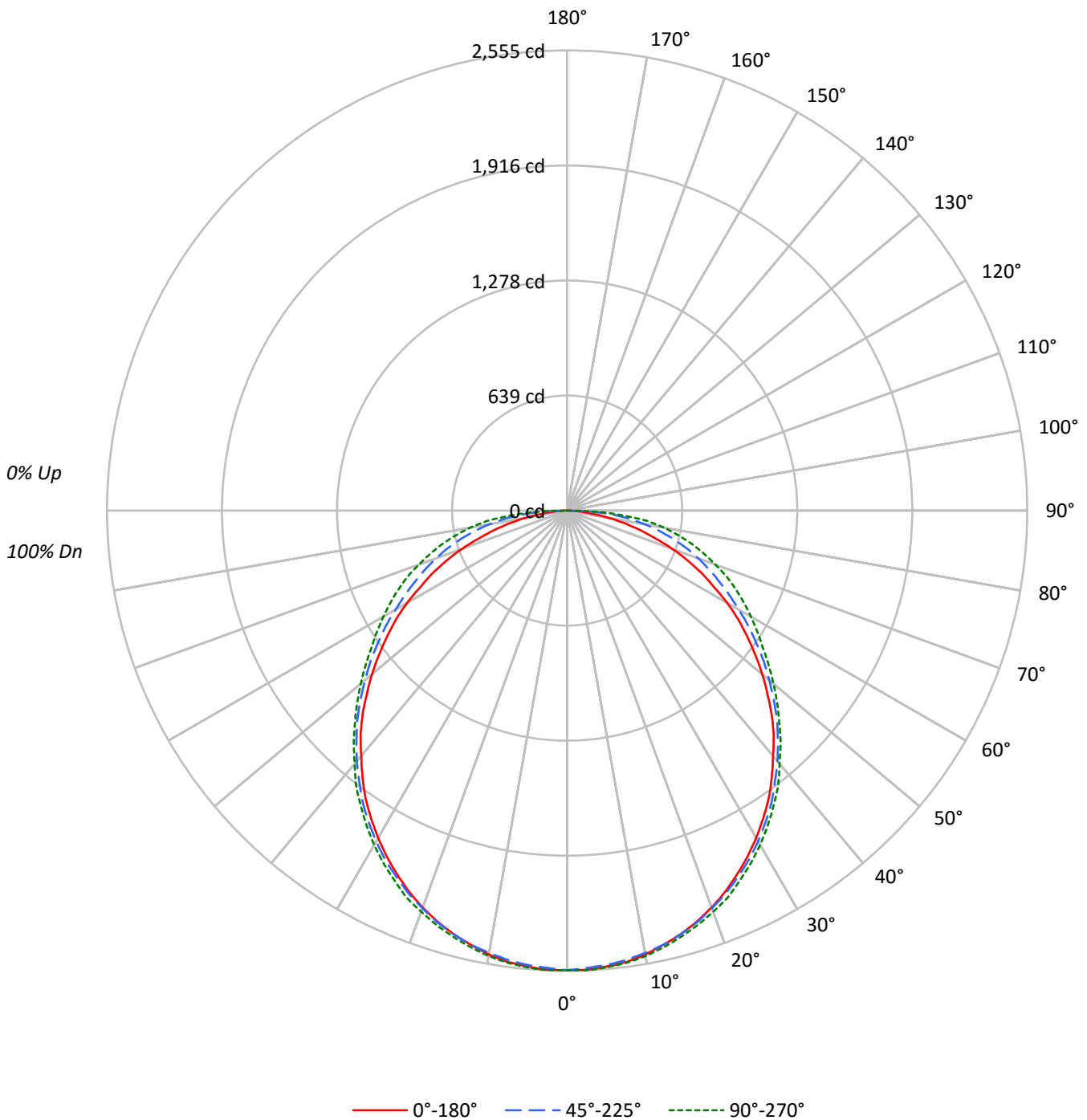
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3434	3434	3434
5°	3432	3420	3438
10°	3419	3407	3432
15°	3392	3392	3411
20°	3358	3365	3394
25°	3312	3332	3365
30°	3260	3295	3329
35°	3206	3250	3284
40°	3124	3191	3223
45°	3059	3136	3171
50°	2961	3064	3130
55°	2864	3007	3112
60°	2766	2959	3171
65°	2628	2964	3286
70°	2441	3052	3441
75°	2186	3180	3729
80°	1829	3398	4234
85°	1320	3889	4826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	3.3
10°-20°	688.9	9.3
20°-30°	1036.7	14.0
30°-40°	1236.5	16.7
40°-50°	1267.7	17.1
50°-60°	1148.1	15.5
60°-70°	923.6	12.5
70°-80°	621.2	8.4
80°-90°	242.8	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°	1967.0	26.6
0°-40°	3203.6	43.3
0°-60°	5619.3	75.9
0°-90°	7406.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7406.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2552	2552	2552	2552	2552	
5°	2541	2541	2532	2546	2546	241
15°	2435	2440	2435	2451	2449	687
25°	2231	2238	2244	2267	2267	1028
35°	1952	1961	1979	1995	1999	1218
45°	1608	1624	1648	1664	1666	1237
55°	1221	1252	1282	1318	1327	1093
65°	825	859	931	1014	1032	815
75°	420	484	612	688	717	445
85°	86	164	252	295	313	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2552.3	2552.3	2552.3	2552.3	2552.3
2.5°	2552.3	2552.3	2541.1	2554.6	2554.6
5°	2541.1	2541.1	2532.1	2545.6	2545.6
7.5°	2527.6	2527.6	2516.3	2532.1	2532.1
10°	2502.8	2502.8	2493.8	2511.8	2511.8
12.5°	2469.1	2475.9	2469.1	2484.8	2482.6
15°	2435.4	2439.9	2435.4	2451.1	2448.9
17.5°	2392.6	2397.1	2397.1	2412.9	2412.9
20°	2345.4	2349.9	2349.9	2370.2	2370.2
22.5°	2291.5	2298.2	2300.5	2322.9	2327.4
25°	2230.7	2237.5	2244.2	2266.7	2266.7
27.5°	2167.8	2174.5	2185.8	2208.3	2208.3
30°	2098.1	2109.3	2120.6	2145.3	2143.0
32.5°	2026.1	2037.4	2050.8	2071.1	2073.3
35°	1951.9	1960.9	1978.9	1994.6	1999.1
37.5°	1866.4	1879.9	1895.7	1922.7	1924.9
40°	1778.7	1794.5	1817.0	1839.5	1835.0
42.5°	1697.8	1713.5	1731.5	1754.0	1754.0
45°	1607.8	1623.6	1648.3	1664.1	1666.3
47.5°	1508.9	1533.6	1556.1	1578.6	1580.9
50°	1414.5	1441.4	1463.9	1493.2	1495.4
52.5°	1317.8	1347.0	1376.2	1403.2	1410.0
55°	1221.1	1252.5	1281.8	1317.8	1326.8
57.5°	1126.6	1158.1	1194.1	1234.6	1252.5
60°	1027.7	1061.4	1099.6	1158.1	1178.3
62.5°	919.7	958.0	1014.2	1083.9	1106.4
65°	825.3	859.0	931.0	1014.2	1032.2
67.5°	724.1	757.8	852.3	935.5	960.2
70°	620.6	663.4	775.8	856.8	874.8
72.5°	515.0	571.2	694.9	773.6	796.1
75°	420.5	483.5	611.7	688.1	717.3
77.5°	326.1	404.8	526.2	600.4	631.9
80°	236.1	328.3	438.5	512.7	546.4
82.5°	150.7	242.9	348.6	425.0	452.0
85°	85.5	164.2	251.9	294.6	312.6
87.5°	33.7	81.0	134.9	177.6	188.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)