

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: P217908

Luminaire Tested: **R2X-WO-4L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217908
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-4L30-LD5-UNV-24
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 4, 3000K CCT.
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

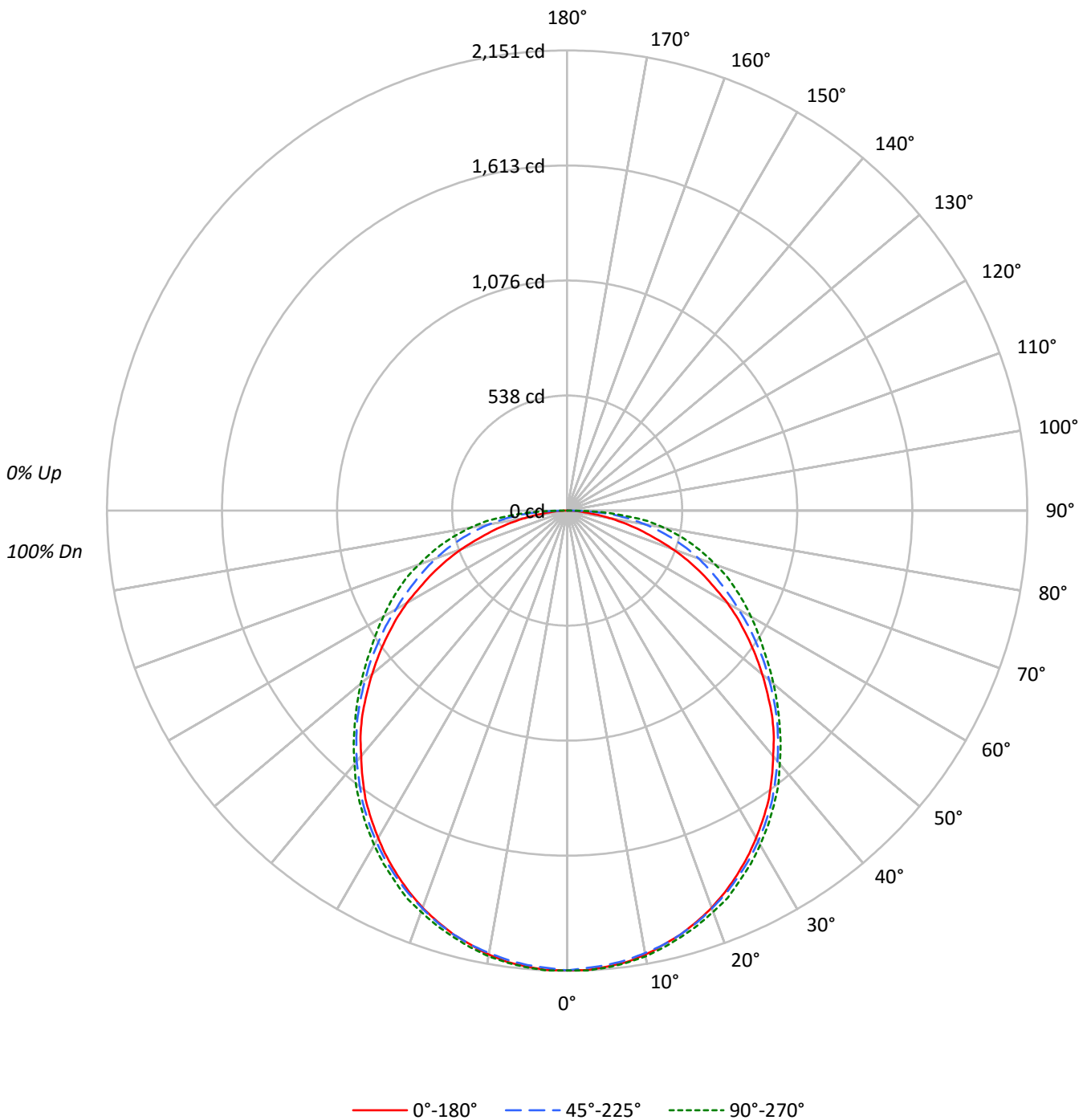
Lumens per Lamp: N/A
Luminaire Lumens: 6237.9 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 57.1
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°	2892	2892	2892
5°	2890	2880	2895
10°	2880	2870	2890
15°	2857	2857	2873
20°	2828	2834	2858
25°	2789	2806	2834
30°	2745	2775	2804
35°	2700	2737	2765
40°	2631	2688	2714
45°	2577	2641	2670
50°	2493	2581	2636
55°	2412	2532	2621
60°	2329	2492	2671
65°	2213	2496	2768
70°	2056	2570	2898
75°	1841	2678	3140
80°	1541	2861	3566
85°	1112	3274	4063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	3.3
10°-20°	580.2	9.3
20°-30°	873.1	14.0
30°-40°	1041.4	16.7
40°-50°	1067.6	17.1
50°-60°	966.9	15.5
60°-70°	777.8	12.5
70°-80°	523.2	8.4
80°-90°	204.4	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°	1656.6	26.6
0°-40°	2698.0	43.3
0°-60°	4732.5	75.9
0°-90°	6237.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6237.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2140	2140	2132	2144	2144	203
15°	2051	2055	2051	2064	2062	578
25°	1879	1884	1890	1909	1909	866
35°	1644	1651	1667	1680	1684	1026
45°	1354	1367	1388	1401	1403	1042
55°	1028	1055	1080	1110	1117	920
65°	695	723	784	854	869	686
75°	354	407	515	580	604	375
85°	72	138	212	248	263	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2149.5	2149.5	2149.5	2149.5	2149.5
2.5°	2149.5	2149.5	2140.0	2151.4	2151.4
5°	2140.0	2140.0	2132.5	2143.8	2143.8
7.5°	2128.7	2128.7	2119.2	2132.5	2132.5
10°	2107.8	2107.8	2100.3	2115.4	2115.4
12.5°	2079.4	2085.1	2079.4	2092.7	2090.8
15°	2051.0	2054.8	2051.0	2064.3	2062.4
17.5°	2015.1	2018.8	2018.8	2032.1	2032.1
20°	1975.3	1979.1	1979.1	1996.1	1996.1
22.5°	1929.8	1935.5	1937.4	1956.3	1960.1
25°	1878.7	1884.4	1890.1	1909.0	1909.0
27.5°	1825.7	1831.3	1840.8	1859.8	1859.8
30°	1767.0	1776.4	1785.9	1806.7	1804.8
32.5°	1706.4	1715.8	1727.2	1744.2	1746.1
35°	1643.9	1651.4	1666.6	1679.8	1683.6
37.5°	1571.9	1583.3	1596.5	1619.2	1621.1
40°	1498.0	1511.3	1530.2	1549.2	1545.4
42.5°	1429.9	1443.1	1458.3	1477.2	1477.2
45°	1354.1	1367.4	1388.2	1401.4	1403.3
47.5°	1270.8	1291.6	1310.5	1329.5	1331.4
50°	1191.2	1214.0	1232.9	1257.5	1259.4
52.5°	1109.8	1134.4	1159.0	1181.8	1187.4
55°	1028.4	1054.9	1079.5	1109.8	1117.4
57.5°	948.8	975.3	1005.6	1039.7	1054.9
60°	865.5	893.9	926.1	975.3	992.4
62.5°	774.6	806.8	854.1	912.8	931.8
65°	695.0	723.4	784.1	854.1	869.3
67.5°	609.8	638.2	717.8	787.8	808.7
70°	522.7	558.7	653.4	721.6	736.7
72.5°	433.7	481.0	585.2	651.5	670.4
75°	354.1	407.2	515.1	579.5	604.1
77.5°	274.6	340.9	443.2	505.7	532.2
80°	198.9	276.5	369.3	431.8	460.2
82.5°	126.9	204.5	293.5	357.9	380.7
85°	72.0	138.3	212.1	248.1	263.2
87.5°	28.4	68.2	113.6	149.6	159.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)