

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: P217874

Luminaire Tested: **R2X-WO-1L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35828-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2X-WO-1L30-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 1, 3000K CCT.
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2108.5 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

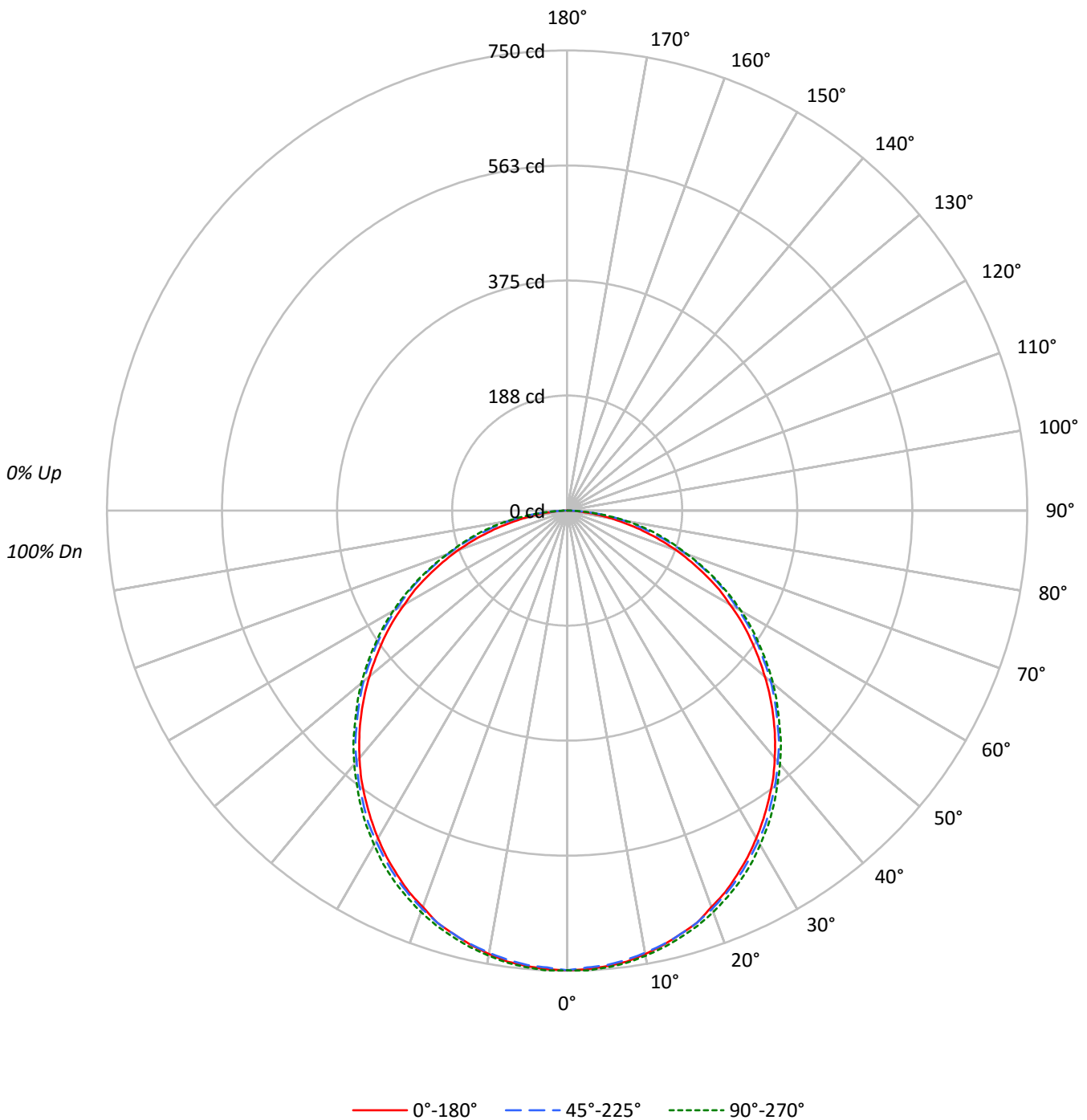
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2016	2016	2016
5°	2014	2008	2019
10°	2005	2000	2013
15°	1991	1991	2004
20°	1969	1978	1994
25°	1945	1959	1979
30°	1916	1934	1955
35°	1884	1906	1928
40°	1849	1876	1896
45°	1810	1842	1861
50°	1761	1814	1834
55°	1712	1775	1798
60°	1649	1732	1763
65°	1584	1694	1712
70°	1489	1625	1640
75°	1338	1528	1618
80°	1102	1458	1519
85°	772	1275	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.4
10°-20°	202.2	9.6
20°-30°	304.6	14.4
30°-40°	363.5	17.2
40°-50°	373.5	17.7
50°-60°	336.9	16.0
60°-70°	259.5	12.3
70°-80°	153.6	7.3
80°-90°	43.7	2.1
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°	577.7	27.4
0°-40°	941.2	44.6
0°-60°	1651.7	78.3
0°-90°	2108.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	745	746	744	747	747	71
15°	715	716	715	719	719	202
25°	655	659	660	666	667	302
35°	573	577	580	586	587	359
45°	476	479	484	489	489	367
55°	365	372	378	383	383	326
65°	249	256	266	270	269	246
75°	129	138	147	153	156	136
85°	25	36	41	42	40	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.2	749.2	749.2	749.2	749.2
2.5°	748.3	749.2	745.4	750.2	750.2
5°	745.4	746.3	743.5	747.3	747.3
7.5°	741.5	741.5	738.6	743.5	743.5
10°	733.8	734.8	731.9	736.7	736.7
12.5°	725.2	726.2	724.2	729.0	729.0
15°	714.6	715.6	714.6	719.4	719.4
17.5°	704.1	704.1	704.1	707.9	708.9
20°	687.7	690.6	690.6	695.4	696.4
22.5°	673.3	675.3	676.2	682.0	682.0
25°	655.1	658.9	659.9	665.6	666.6
27.5°	636.8	640.7	641.6	648.4	649.3
30°	616.7	620.5	622.4	629.1	629.1
32.5°	595.5	600.3	603.2	608.0	609.0
35°	573.4	577.3	580.2	585.9	586.9
37.5°	551.3	554.2	558.1	563.8	562.9
40°	526.4	530.2	534.1	539.8	539.8
42.5°	501.4	507.2	511.0	514.8	515.8
45°	475.5	479.3	484.1	488.9	488.9
47.5°	448.6	453.4	459.1	463.0	463.9
50°	420.7	426.5	433.2	438.0	438.0
52.5°	392.9	398.6	405.3	411.1	411.1
55°	365.0	371.7	378.4	383.3	383.3
57.5°	337.1	343.9	350.6	356.4	356.4
60°	306.4	315.1	321.8	326.6	327.5
62.5°	279.5	285.3	293.9	298.7	298.7
65°	248.8	256.5	266.1	269.9	268.9
67.5°	219.0	225.7	235.3	242.1	239.2
70°	189.2	195.9	206.5	208.4	208.4
72.5°	158.5	168.1	177.7	179.6	181.5
75°	128.7	138.3	147.0	152.7	155.6
77.5°	99.9	109.5	120.1	125.8	127.8
80°	71.1	82.6	94.1	98.0	98.0
82.5°	47.1	56.7	67.2	68.2	69.2
85°	25.0	35.5	41.3	42.3	40.3
87.5°	9.6	13.4	16.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)