

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: P217906

Luminaire Tested: **R2X-WO-2L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217906
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-2L30-LD5-UNV-24
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 2, 3000K CCT.
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4202.3 lumens
Efficiency: N/A
Efficacy: 120.4 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

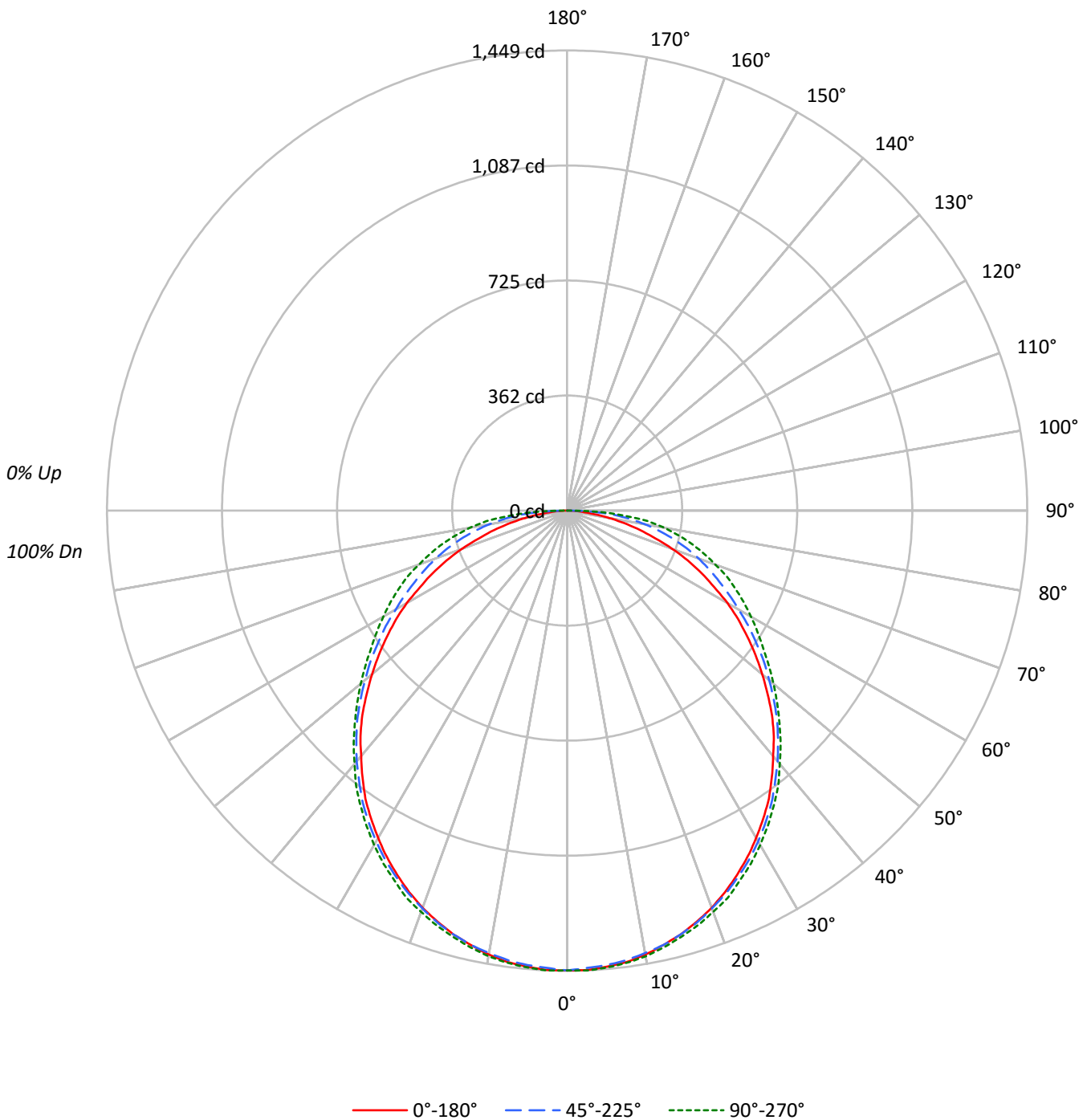
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1948	1948	1948
5°	1947	1940	1951
10°	1940	1933	1947
15°	1925	1925	1935
20°	1905	1909	1925
25°	1879	1890	1909
30°	1849	1869	1889
35°	1819	1844	1863
40°	1773	1811	1829
45°	1736	1780	1799
50°	1680	1739	1776
55°	1625	1706	1766
60°	1569	1679	1799
65°	1491	1682	1864
70°	1385	1732	1952
75°	1240	1804	2116
80°	1038	1928	2402
85°	749	2206	2737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.3
10°-20°	390.9	9.3
20°-30°	588.2	14.0
30°-40°	701.5	16.7
40°-50°	719.2	17.1
50°-60°	651.4	15.5
60°-70°	524.0	12.5
70°-80°	352.4	8.4
80°-90°	137.7	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°	1116.0	26.6
0°-40°	1817.5	43.3
0°-60°	3188.1	75.9
0°-90°	4202.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1442	1442	1437	1444	1444	137
15°	1382	1384	1382	1391	1389	390
25°	1266	1269	1273	1286	1286	583
35°	1107	1112	1123	1132	1134	691
45°	912	921	935	944	945	702
55°	693	711	727	748	753	620
65°	468	487	528	575	586	462
75°	239	274	347	390	407	253
85°	48	93	143	167	177	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.1	1448.1	1448.1	1448.1	1448.1
2.5°	1448.1	1448.1	1441.7	1449.3	1449.3
5°	1441.7	1441.7	1436.6	1444.2	1444.2
7.5°	1434.0	1434.0	1427.7	1436.6	1436.6
10°	1420.0	1420.0	1414.9	1425.1	1425.1
12.5°	1400.9	1404.7	1400.9	1409.8	1408.5
15°	1381.7	1384.3	1381.7	1390.7	1389.4
17.5°	1357.5	1360.0	1360.0	1369.0	1369.0
20°	1330.7	1333.2	1333.2	1344.7	1344.7
22.5°	1300.1	1303.9	1305.2	1317.9	1320.5
25°	1265.6	1269.4	1273.3	1286.0	1286.0
27.5°	1229.9	1233.7	1240.1	1252.9	1252.9
30°	1190.3	1196.7	1203.1	1217.1	1215.9
32.5°	1149.5	1155.9	1163.6	1175.0	1176.3
35°	1107.4	1112.5	1122.7	1131.7	1134.2
37.5°	1058.9	1066.6	1075.5	1090.8	1092.1
40°	1009.2	1018.1	1030.9	1043.6	1041.1
42.5°	963.3	972.2	982.4	995.1	995.1
45°	912.2	921.1	935.2	944.1	945.4
47.5°	856.1	870.1	882.9	895.6	896.9
50°	802.5	817.8	830.6	847.2	848.4
52.5°	747.6	764.2	780.8	796.1	799.9
55°	692.8	710.6	727.2	747.6	752.7
57.5°	639.2	657.1	677.5	700.4	710.6
60°	583.1	602.2	623.9	657.1	668.5
62.5°	521.8	543.5	575.4	614.9	627.7
65°	468.2	487.4	528.2	575.4	585.6
67.5°	410.8	430.0	483.5	530.7	544.8
70°	352.1	376.4	440.2	486.1	496.3
72.5°	292.2	324.1	394.2	438.9	451.6
75°	238.6	274.3	347.0	390.4	407.0
77.5°	185.0	229.6	298.5	340.6	358.5
80°	134.0	186.3	248.8	290.9	310.0
82.5°	85.5	137.8	197.8	241.1	256.4
85°	48.5	93.1	142.9	167.1	177.3
87.5°	19.1	45.9	76.5	100.8	107.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)