

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: P217905

Luminaire Tested: **R2X-WO-1L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217905
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-1L30-LD5-UNV-24
Description: CLASS R2X 2X4 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

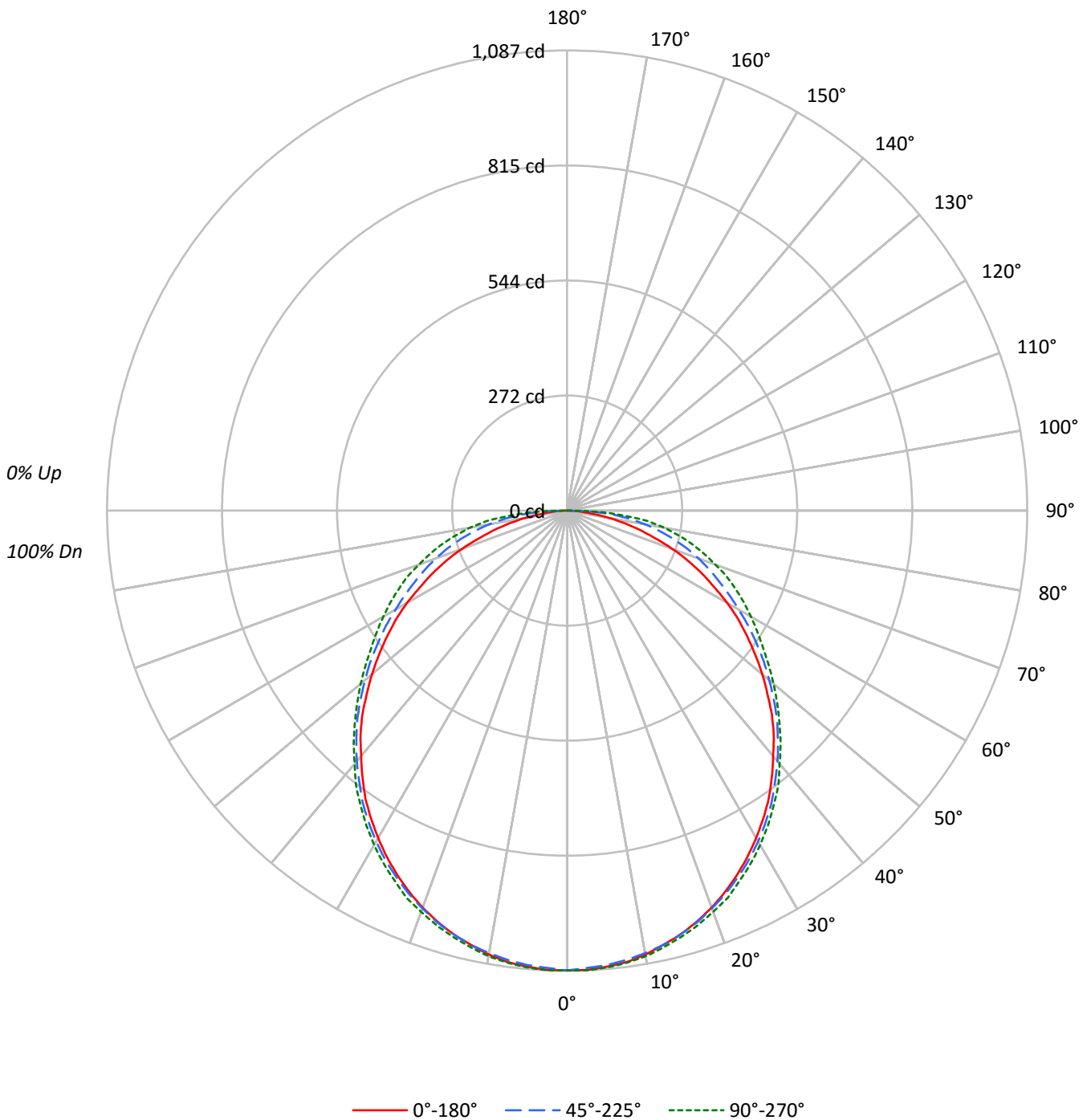
Lumens per Lamp: N/A
Luminaire Lumens: 3151.9 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.1
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°	1461	1461	1461
5°	1460	1455	1463
10°	1455	1450	1460
15°	1444	1444	1452
20°	1429	1432	1444
25°	1409	1418	1432
30°	1387	1402	1417
35°	1364	1383	1397
40°	1329	1358	1371
45°	1302	1335	1349
50°	1260	1304	1332
55°	1219	1279	1324
60°	1177	1259	1349
65°	1118	1261	1398
70°	1039	1299	1464
75°	930	1353	1587
80°	779	1446	1801
85°	562	1655	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.3
10°-20°	293.2	9.3
20°-30°	441.2	14.0
30°-40°	526.2	16.7
40°-50°	539.4	17.1
50°-60°	488.6	15.5
60°-70°	393.0	12.5
70°-80°	264.3	8.4
80°-90°	103.3	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°	837.1	26.6
0°-40°	1363.2	43.3
0°-60°	2391.2	75.9
0°-90°	3151.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3151.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1081	1081	1078	1083	1083	103
15°	1036	1038	1036	1043	1042	292
25°	949	952	955	965	965	437
35°	831	834	842	849	851	518
45°	684	691	701	708	709	527
55°	520	533	545	561	565	465
65°	351	366	396	432	439	347
75°	179	206	260	293	305	190
85°	36	70	107	125	133	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.1	1086.1	1086.1	1086.1	1086.1
2.5°	1086.1	1086.1	1081.3	1087.0	1087.0
5°	1081.3	1081.3	1077.5	1083.2	1083.2
7.5°	1075.6	1075.6	1070.8	1077.5	1077.5
10°	1065.0	1065.0	1061.2	1068.9	1068.9
12.5°	1050.7	1053.6	1050.7	1057.4	1056.4
15°	1036.3	1038.2	1036.3	1043.0	1042.1
17.5°	1018.2	1020.1	1020.1	1026.8	1026.8
20°	998.1	1000.0	1000.0	1008.6	1008.6
22.5°	975.1	978.0	978.9	988.5	990.4
25°	949.3	952.1	955.0	964.6	964.6
27.5°	922.5	925.3	930.1	939.7	939.7
30°	892.8	897.6	902.4	912.9	911.9
32.5°	862.2	867.0	872.7	881.3	882.3
35°	830.6	834.4	842.1	848.8	850.7
37.5°	794.2	800.0	806.7	818.2	819.1
40°	756.9	763.6	773.2	782.8	780.8
42.5°	722.5	729.2	736.8	746.4	746.4
45°	684.2	690.9	701.4	708.1	709.1
47.5°	642.1	652.6	662.2	671.8	672.7
50°	601.9	613.4	622.9	635.4	636.3
52.5°	560.7	573.2	585.6	597.1	600.0
55°	519.6	533.0	545.4	560.7	564.6
57.5°	479.4	492.8	508.1	525.3	533.0
60°	437.3	451.7	467.9	492.8	501.4
62.5°	391.4	407.6	431.6	461.2	470.8
65°	351.2	365.5	396.2	431.6	439.2
67.5°	308.1	322.5	362.7	398.1	408.6
70°	264.1	282.3	330.1	364.6	372.2
72.5°	219.1	243.1	295.7	329.2	338.7
75°	178.9	205.7	260.3	292.8	305.3
77.5°	138.8	172.2	223.9	255.5	268.9
80°	100.5	139.7	186.6	218.2	232.5
82.5°	64.1	103.3	148.3	180.9	192.3
85°	36.4	69.9	107.2	125.4	133.0
87.5°	14.4	34.4	57.4	75.6	80.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)