

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: P217892

Luminaire Tested: **R2X-WO-5L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35816-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-22
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 5, 3000K CCT.
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

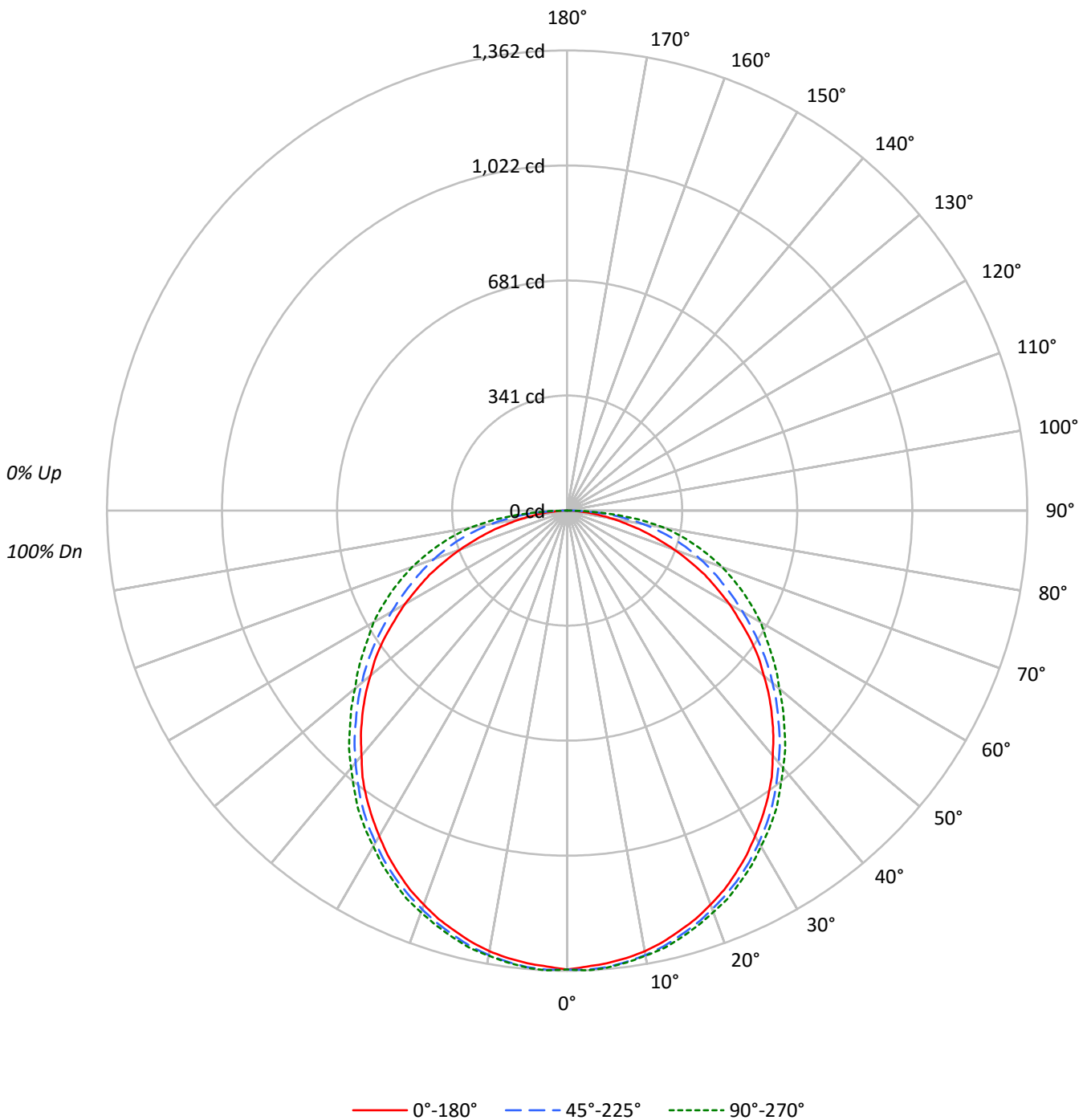
Lumens per Lamp: N/A
Luminaire Lumens: 3975.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	101	96	93	96	93	90		92	90	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	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	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	41	33	28	40	33	28		39	32	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3655	3655	3655
5°	3634	3664	3669
10°	3620	3650	3656
15°	3587	3623	3644
20°	3554	3596	3623
25°	3513	3568	3601
30°	3456	3526	3566
35°	3403	3483	3544
40°	3325	3423	3495
45°	3262	3368	3460
50°	3183	3323	3432
55°	3103	3278	3461
60°	2988	3229	3560
65°	2859	3227	3666
70°	2653	3298	3841
75°	2402	3409	4068
80°	2021	3522	4505
85°	1612	3625	4604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.2
10°-20°	366.7	9.2
20°-30°	552.5	13.9
30°-40°	661.3	16.6
40°-50°	682.7	17.2
50°-60°	624.8	15.7
60°-70°	505.1	12.7
70°-80°	335.5	8.4
80°-90°	118.1	3.0
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°	1047.7	26.4
0°-40°	1709.1	43.0
0°-60°	3016.5	75.9
0°-90°	3975.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3975.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1345	1349	1356	1358	1358	128
15°	1288	1293	1300	1306	1308	363
25°	1183	1187	1202	1211	1213	545
35°	1036	1040	1060	1071	1079	647
45°	857	866	885	904	909	661
55°	661	671	699	725	738	590
65°	449	464	507	561	576	442
75°	231	259	328	373	391	243
85°	52	76	117	138	149	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.3	1358.3	1358.3	1358.3	1358.3
2.5°	1350.8	1352.7	1360.1	1362.0	1362.0
5°	1345.2	1348.9	1356.4	1358.3	1358.3
7.5°	1335.9	1339.6	1347.1	1350.8	1348.9
10°	1324.7	1326.6	1335.9	1339.6	1337.8
12.5°	1307.9	1311.7	1321.0	1324.7	1326.6
15°	1287.5	1293.0	1300.5	1306.1	1307.9
17.5°	1267.0	1270.7	1280.0	1285.6	1287.5
20°	1240.9	1244.6	1255.8	1263.2	1265.1
22.5°	1214.8	1216.7	1229.7	1239.0	1242.7
25°	1183.1	1186.8	1201.7	1211.1	1212.9
27.5°	1149.6	1155.2	1170.1	1179.4	1183.1
30°	1112.3	1119.8	1134.7	1145.9	1147.7
32.5°	1075.1	1082.5	1099.3	1112.3	1114.2
35°	1035.9	1039.7	1060.1	1071.3	1078.8
37.5°	994.9	1000.5	1017.3	1032.2	1035.9
40°	946.5	957.7	974.4	989.3	994.9
42.5°	903.6	911.1	931.6	946.5	955.8
45°	857.1	866.4	885.0	903.6	909.2
47.5°	810.5	819.8	840.3	858.9	866.4
50°	760.2	769.5	793.7	814.2	819.8
52.5°	713.6	722.9	747.1	767.6	780.7
55°	661.4	670.7	698.7	724.8	737.8
57.5°	605.5	620.4	648.4	680.1	696.8
60°	555.2	566.4	599.9	642.8	661.4
62.5°	499.3	514.2	553.4	601.8	618.6
65°	449.0	463.9	506.8	560.8	575.7
67.5°	391.3	409.9	463.9	516.1	531.0
70°	337.2	357.7	419.2	469.5	488.2
72.5°	281.3	307.4	374.5	422.9	439.7
75°	231.0	259.0	327.9	372.6	391.3
77.5°	177.0	214.3	279.5	326.1	342.8
80°	130.4	167.7	227.3	273.9	290.7
82.5°	89.4	121.1	173.3	212.4	223.6
85°	52.2	76.4	117.4	137.9	149.1
87.5°	22.4	35.4	54.0	67.1	65.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)