

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: P217891

Luminaire Tested: **R2X-WO-4L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217891
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-4L30-LD5-UNV-22
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 4, 3000K CCT.
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3495.1 lumens
Efficiency: N/A
Efficacy: 110.3 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

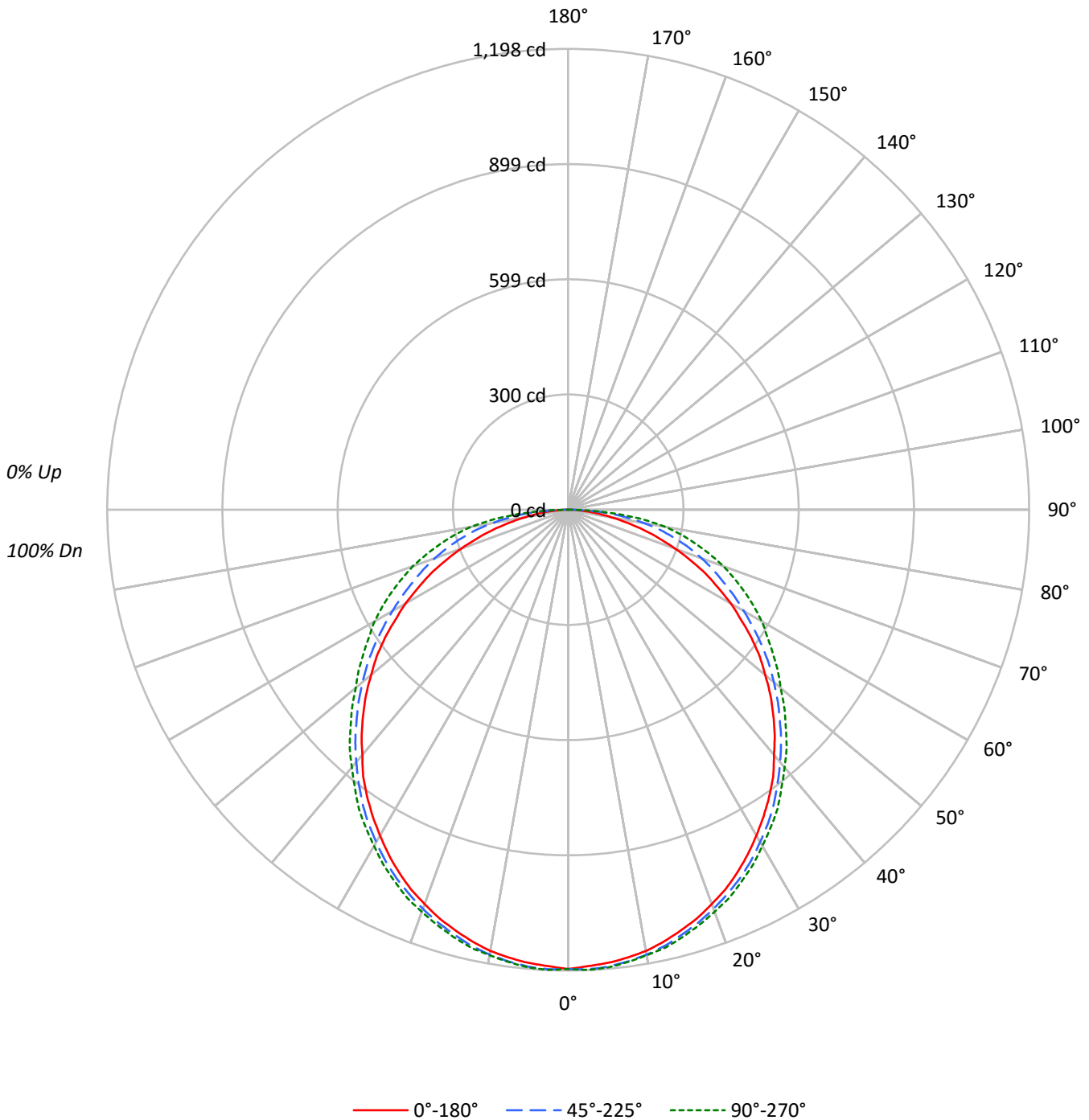
Input Watts (W): 31.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3214	3214	3214
5°	3195	3222	3226
10°	3183	3210	3214
15°	3154	3185	3204
20°	3124	3162	3185
25°	3089	3137	3166
30°	3039	3100	3136
35°	2992	3062	3116
40°	2923	3010	3073
45°	2868	2961	3042
50°	2798	2922	3018
55°	2728	2882	3043
60°	2627	2839	3130
65°	2514	2837	3223
70°	2333	2900	3377
75°	2112	2997	3577
80°	1777	3098	3961
85°	1417	3186	4048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.2
10°-20°	322.4	9.2
20°-30°	485.8	13.9
30°-40°	581.5	16.6
40°-50°	600.3	17.2
50°-60°	549.3	15.7
60°-70°	444.1	12.7
70°-80°	295.0	8.4
80°-90°	103.8	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°	921.2	26.4
0°-40°	1502.7	43.0
0°-60°	2652.2	75.9
0°-90°	3495.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3495.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1183	1186	1193	1194	1194	112
15°	1132	1137	1143	1148	1150	320
25°	1040	1044	1057	1065	1066	479
35°	911	914	932	942	948	569
45°	754	762	778	794	799	581
55°	582	590	614	637	649	519
65°	395	408	446	493	506	388
75°	203	228	288	328	344	214
85°	46	67	103	121	131	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.2	1194.2	1194.2	1194.2	1194.2
2.5°	1187.7	1189.3	1195.9	1197.5	1197.5
5°	1182.7	1186.0	1192.6	1194.2	1194.2
7.5°	1174.6	1177.8	1184.4	1187.7	1186.0
10°	1164.7	1166.4	1174.6	1177.8	1176.2
12.5°	1150.0	1153.3	1161.5	1164.7	1166.4
15°	1132.0	1136.9	1143.4	1148.3	1150.0
17.5°	1113.9	1117.2	1125.4	1130.3	1132.0
20°	1091.0	1094.3	1104.1	1110.7	1112.3
22.5°	1068.1	1069.7	1081.2	1089.4	1092.6
25°	1040.2	1043.5	1056.6	1064.8	1066.4
27.5°	1010.7	1015.7	1028.8	1037.0	1040.2
30°	978.0	984.5	997.6	1007.5	1009.1
32.5°	945.2	951.8	966.5	978.0	979.6
35°	910.8	914.1	932.1	941.9	948.5
37.5°	874.8	879.7	894.4	907.5	910.8
40°	832.2	842.0	856.8	869.9	874.8
42.5°	794.5	801.1	819.1	832.2	840.4
45°	753.6	761.7	778.1	794.5	799.4
47.5°	712.6	720.8	738.8	755.2	761.7
50°	668.4	676.6	697.9	715.9	720.8
52.5°	627.4	635.6	656.9	674.9	686.4
55°	581.5	589.7	614.3	637.2	648.7
57.5°	532.4	545.5	570.1	597.9	612.7
60°	488.2	498.0	527.5	565.2	581.5
62.5°	439.0	452.1	486.5	529.1	543.9
65°	394.8	407.9	445.6	493.1	506.2
67.5°	344.0	360.4	407.9	453.8	466.9
70°	296.5	314.5	368.6	412.8	429.2
72.5°	247.4	270.3	329.3	371.9	386.6
75°	203.1	227.7	288.3	327.6	344.0
77.5°	155.6	188.4	245.7	286.7	301.4
80°	114.7	147.4	199.9	240.8	255.6
82.5°	78.6	106.5	152.3	186.7	196.6
85°	45.9	67.2	103.2	121.2	131.1
87.5°	19.7	31.1	47.5	59.0	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)