

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: P217890

Luminaire Tested: **R2X-WO-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217890
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-3L30-LD5-UNV-22
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 3, 3000K CCT.
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

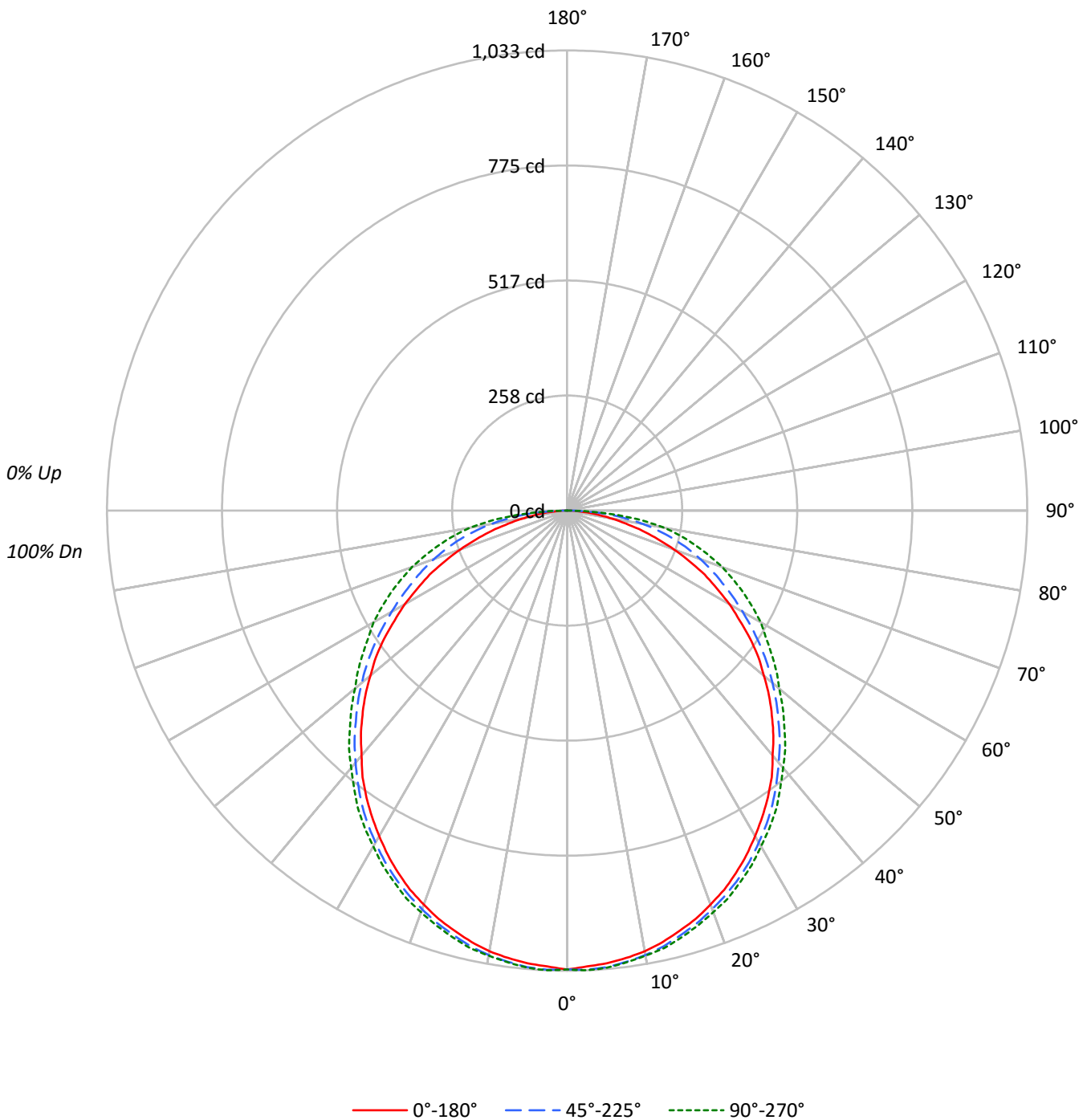
Lumens per Lamp: N/A
Luminaire Lumens: 3014.8 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 26.5
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	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					100			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82					82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68					68			
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57					57			
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48					48			
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42					42			
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2772	2772	2772
5°	2756	2779	2783
10°	2745	2768	2772
15°	2720	2748	2763
20°	2695	2727	2747
25°	2664	2706	2731
30°	2621	2674	2705
35°	2581	2641	2688
40°	2522	2596	2650
45°	2474	2554	2624
50°	2413	2520	2603
55°	2353	2486	2625
60°	2266	2449	2700
65°	2168	2447	2780
70°	2013	2501	2913
75°	1822	2586	3085
80°	1533	2672	3415
85°	1223	2748	3489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.2
10°-20°	278.1	9.2
20°-30°	419.0	13.9
30°-40°	501.5	16.6
40°-50°	517.8	17.2
50°-60°	473.8	15.7
60°-70°	383.1	12.7
70°-80°	254.4	8.4
80°-90°	89.5	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°	794.6	26.4
0°-40°	1296.1	43.0
0°-60°	2287.7	75.9
0°-90°	3014.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3014.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1020	1023	1029	1030	1030	97
15°	976	981	986	990	992	276
25°	897	900	911	918	920	413
35°	786	788	804	812	818	491
45°	650	657	671	685	690	501
55°	502	509	530	550	560	447
65°	340	352	384	425	437	335
75°	175	196	249	283	297	185
85°	40	58	89	105	113	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.1	1030.1	1030.1	1030.1	1030.1
2.5°	1024.4	1025.8	1031.5	1032.9	1032.9
5°	1020.2	1023.0	1028.7	1030.1	1030.1
7.5°	1013.1	1016.0	1021.6	1024.4	1023.0
10°	1004.7	1006.1	1013.1	1016.0	1014.5
12.5°	991.9	994.8	1001.8	1004.7	1006.1
15°	976.4	980.6	986.3	990.5	991.9
17.5°	960.8	963.7	970.7	975.0	976.4
20°	941.1	943.9	952.4	958.0	959.4
22.5°	921.3	922.7	932.6	939.7	942.5
25°	897.3	900.1	911.4	918.5	919.9
27.5°	871.8	876.1	887.4	894.4	897.3
30°	843.6	849.2	860.5	869.0	870.4
32.5°	815.3	821.0	833.7	843.6	845.0
35°	785.6	788.5	804.0	812.5	818.1
37.5°	754.5	758.8	771.5	782.8	785.6
40°	717.8	726.3	739.0	750.3	754.5
42.5°	685.3	691.0	706.5	717.8	724.9
45°	650.0	657.0	671.2	685.3	689.5
47.5°	614.7	621.7	637.3	651.4	657.0
50°	576.5	583.6	601.9	617.5	621.7
52.5°	541.2	548.2	566.6	582.2	592.1
55°	501.6	508.7	529.9	549.7	559.6
57.5°	459.2	470.5	491.7	515.7	528.5
60°	421.1	429.6	455.0	487.5	501.6
62.5°	378.7	390.0	419.7	456.4	469.1
65°	340.5	351.8	384.3	425.3	436.6
67.5°	296.7	310.9	351.8	391.4	402.7
70°	255.8	271.3	317.9	356.1	370.2
72.5°	213.4	233.1	284.0	320.8	333.5
75°	175.2	196.4	248.7	282.6	296.7
77.5°	134.2	162.5	212.0	247.3	260.0
80°	98.9	127.2	172.4	207.7	220.4
82.5°	67.8	91.8	131.4	161.1	169.6
85°	39.6	57.9	89.0	104.6	113.0
87.5°	17.0	26.8	41.0	50.9	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)