

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: P217889

Luminaire Tested: **R2X-WO-2L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217889
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-2L30-LD5-UNV-22
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 2, 3000K CCT.
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2537.5 lumens
Efficiency: N/A
Efficacy: 115.3 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

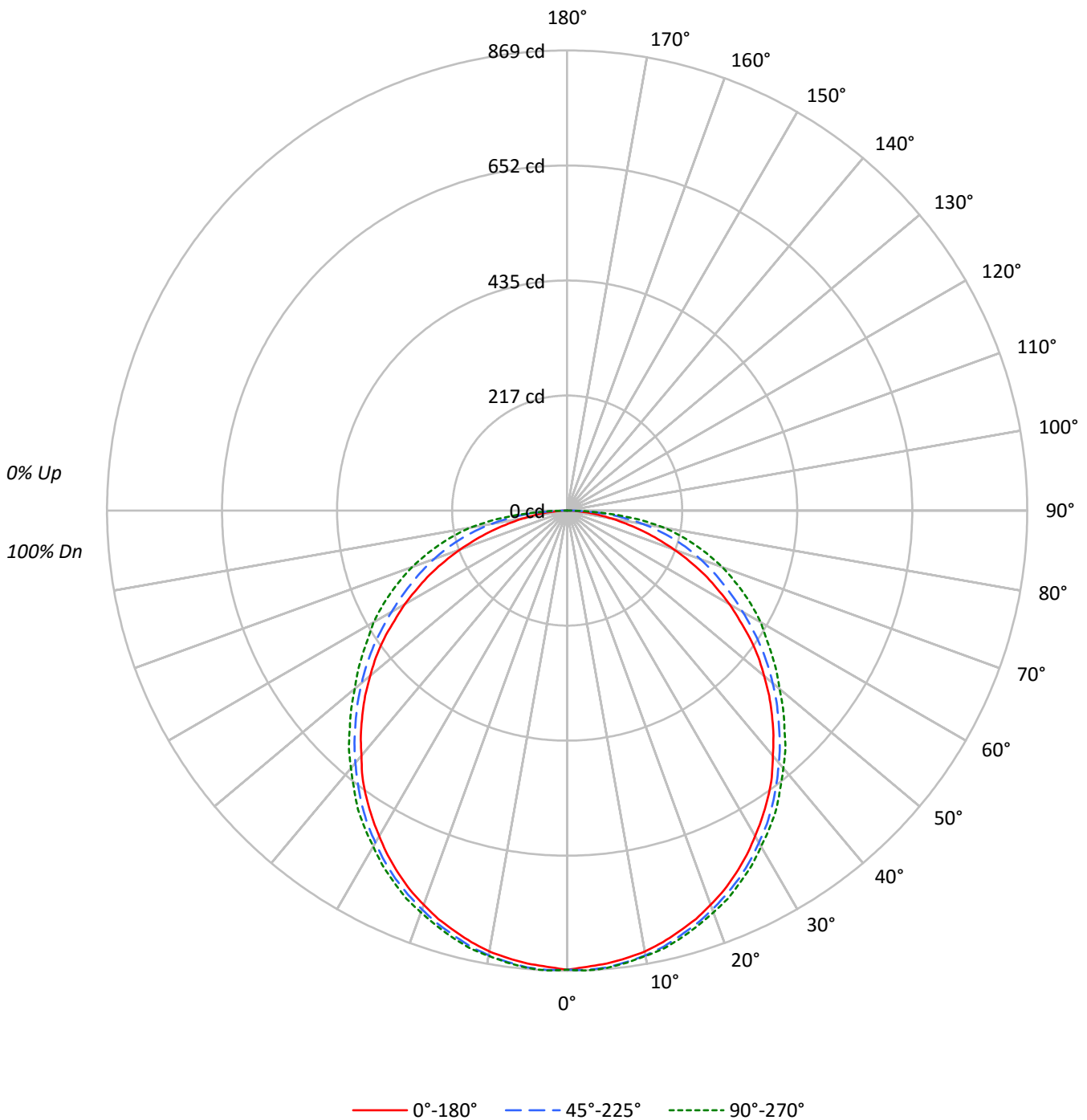
Input Watts (W): 22
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2333	2333	2333
5°	2320	2339	2342
10°	2311	2330	2333
15°	2289	2313	2326
20°	2268	2296	2312
25°	2242	2278	2299
30°	2206	2251	2276
35°	2172	2223	2262
40°	2122	2185	2231
45°	2082	2150	2209
50°	2031	2121	2191
55°	1981	2092	2210
60°	1907	2061	2272
65°	1825	2060	2340
70°	1694	2105	2452
75°	1534	2176	2597
80°	1291	2249	2875
85°	1028	2313	2936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.2
10°-20°	234.0	9.2
20°-30°	352.7	13.9
30°-40°	422.1	16.6
40°-50°	435.8	17.2
50°-60°	398.8	15.7
60°-70°	322.4	12.7
70°-80°	214.1	8.4
80°-90°	75.4	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°	668.8	26.4
0°-40°	1090.9	43.0
0°-60°	1925.5	75.9
0°-90°	2537.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	859	861	866	867	867	82
15°	822	825	830	834	835	232
25°	755	758	767	773	774	348
35°	661	664	677	684	689	413
45°	547	553	565	577	580	422
55°	422	428	446	463	471	377
65°	287	296	324	358	368	282
75°	148	165	209	238	250	155
85°	33	49	75	88	95	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.0	867.0	867.0	867.0	867.0
2.5°	862.3	863.4	868.2	869.4	869.4
5°	858.7	861.1	865.8	867.0	867.0
7.5°	852.7	855.1	859.9	862.3	861.1
10°	845.6	846.8	852.7	855.1	853.9
12.5°	834.9	837.3	843.2	845.6	846.8
15°	821.8	825.4	830.1	833.7	834.9
17.5°	808.7	811.1	817.1	820.6	821.8
20°	792.1	794.5	801.6	806.4	807.5
22.5°	775.4	776.6	784.9	790.9	793.3
25°	755.2	757.6	767.1	773.1	774.2
27.5°	733.8	737.4	746.9	752.8	755.2
30°	710.0	714.8	724.3	731.4	732.6
32.5°	686.2	691.0	701.7	710.0	711.2
35°	661.3	663.6	676.7	683.9	688.6
37.5°	635.1	638.7	649.4	658.9	661.3
40°	604.2	611.3	622.0	631.5	635.1
42.5°	576.8	581.6	594.7	604.2	610.1
45°	547.1	553.0	564.9	576.8	580.4
47.5°	517.4	523.3	536.4	548.3	553.0
50°	485.2	491.2	506.6	519.7	523.3
52.5°	455.5	461.5	476.9	490.0	498.3
55°	422.2	428.2	446.0	462.6	471.0
57.5°	386.5	396.0	413.9	434.1	444.8
60°	354.4	361.6	383.0	410.3	422.2
62.5°	318.7	328.3	353.2	384.1	394.9
65°	286.6	296.1	323.5	358.0	367.5
67.5°	249.8	261.6	296.1	329.4	339.0
70°	215.3	228.3	267.6	299.7	311.6
72.5°	179.6	196.2	239.1	270.0	280.7
75°	147.5	165.3	209.3	237.9	249.8
77.5°	113.0	136.8	178.4	208.1	218.8
80°	83.3	107.0	145.1	174.8	185.5
82.5°	57.1	77.3	110.6	135.6	142.7
85°	33.3	48.8	74.9	88.0	95.1
87.5°	14.3	22.6	34.5	42.8	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)