

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: P217875

Luminaire Tested: **R2X-WO-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35828-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-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 2, 3000K CCT.
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3181.7 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

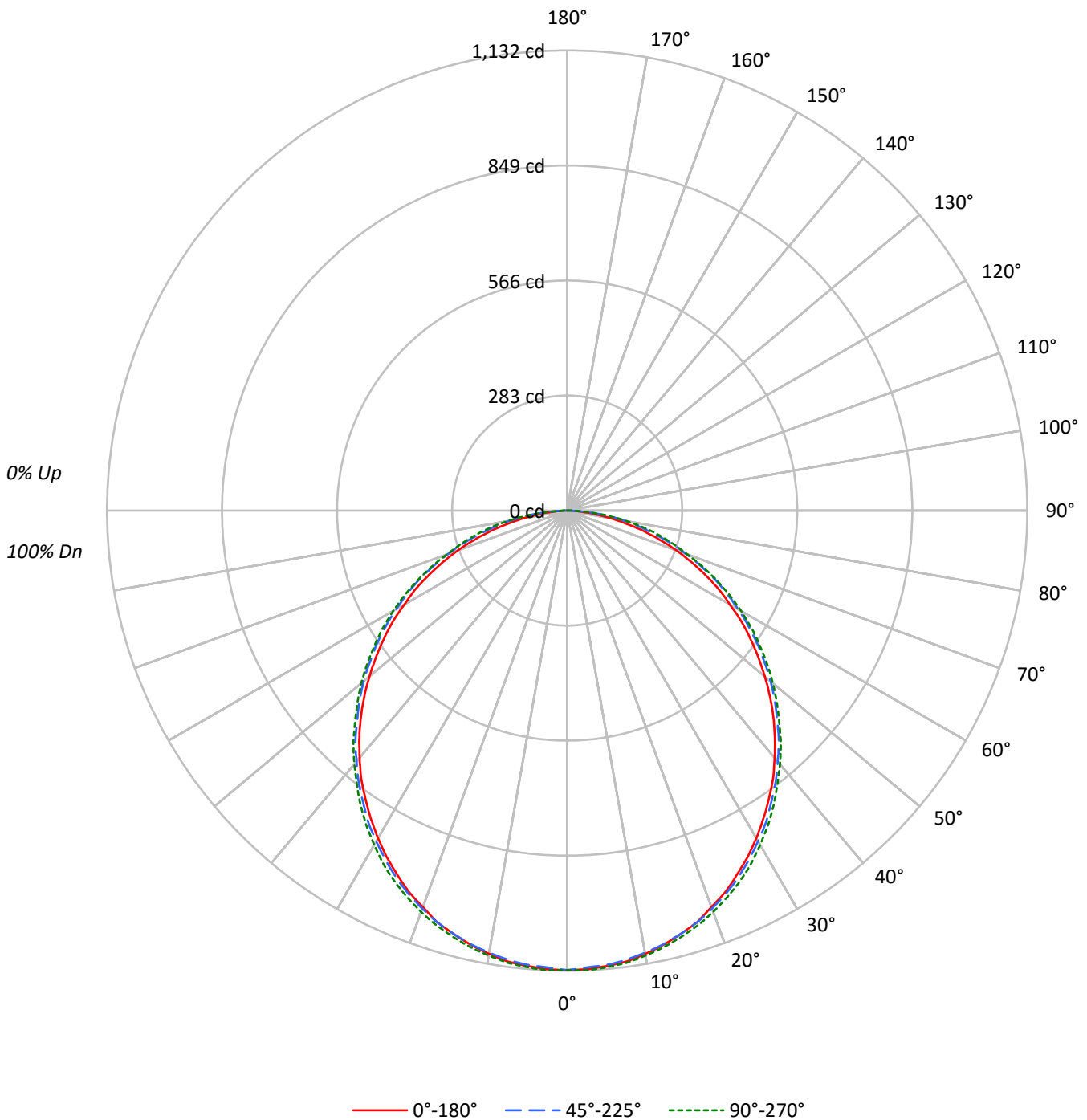
Input Watts (W): 25.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3042	3042	3042
5°	3038	3031	3046
10°	3026	3018	3038
15°	3004	3004	3024
20°	2972	2984	3009
25°	2935	2957	2987
30°	2891	2918	2950
35°	2843	2876	2909
40°	2790	2831	2862
45°	2731	2780	2808
50°	2658	2737	2767
55°	2584	2679	2713
60°	2489	2613	2660
65°	2390	2557	2584
70°	2246	2452	2474
75°	2019	2306	2441
80°	1663	2201	2290
85°	1164	1924	1880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.4
10°-20°	305.2	9.6
20°-30°	459.7	14.4
30°-40°	548.5	17.2
40°-50°	563.7	17.7
50°-60°	508.4	16.0
60°-70°	391.7	12.3
70°-80°	231.7	7.3
80°-90°	65.9	2.1
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°	871.8	27.4
0°-40°	1420.3	44.6
0°-60°	2492.4	78.3
0°-90°	3181.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3181.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1125	1126	1122	1128	1128	107
15°	1078	1080	1078	1086	1086	304
25°	988	994	996	1004	1006	456
35°	865	871	876	884	886	541
45°	718	723	730	738	738	553
55°	551	561	571	578	578	492
65°	375	387	402	407	406	372
75°	194	209	222	230	235	206
85°	38	54	62	64	61	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.6	1130.6	1130.6	1130.6	1130.6
2.5°	1129.1	1130.6	1124.8	1132.0	1132.0
5°	1124.8	1126.2	1121.9	1127.7	1127.7
7.5°	1119.0	1119.0	1114.6	1121.9	1121.9
10°	1107.4	1108.8	1104.5	1111.7	1111.7
12.5°	1094.3	1095.8	1092.9	1100.1	1100.1
15°	1078.4	1079.8	1078.4	1085.6	1085.6
17.5°	1062.4	1062.4	1062.4	1068.2	1069.7
20°	1037.8	1042.1	1042.1	1049.4	1050.8
22.5°	1016.1	1019.0	1020.4	1029.1	1029.1
25°	988.5	994.3	995.8	1004.5	1005.9
27.5°	961.0	966.8	968.2	978.4	979.8
30°	930.5	936.3	939.2	949.4	949.4
32.5°	898.7	905.9	910.2	917.5	918.9
35°	865.3	871.1	875.5	884.2	885.6
37.5°	832.0	836.3	842.1	850.8	849.4
40°	794.3	800.1	805.9	814.6	814.6
42.5°	756.6	765.3	771.1	776.9	778.3
45°	717.5	723.3	730.5	737.8	737.8
47.5°	676.9	684.1	692.8	698.6	700.1
50°	634.9	643.6	653.7	660.9	660.9
52.5°	592.8	601.5	611.7	620.4	620.4
55°	550.8	560.9	571.1	578.3	578.3
57.5°	508.8	518.9	529.0	537.7	537.7
60°	462.4	475.4	485.6	492.8	494.3
62.5°	421.8	430.5	443.5	450.8	450.8
65°	375.4	387.0	401.5	407.3	405.8
67.5°	330.5	340.6	355.1	365.3	360.9
70°	285.5	295.7	311.6	314.5	314.5
72.5°	239.2	253.7	268.1	271.0	273.9
75°	194.2	208.7	221.8	230.5	234.8
77.5°	150.7	165.2	181.2	189.9	192.8
80°	107.3	124.7	142.0	147.8	147.8
82.5°	71.0	85.5	101.5	102.9	104.4
85°	37.7	53.6	62.3	63.8	60.9
87.5°	14.5	20.3	24.6	26.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)