

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: P217899

Luminaire Tested: **R2X-WO-1L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217899
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-1L40-LD5-UNV-22
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 1, 4000K CCT.
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2176.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

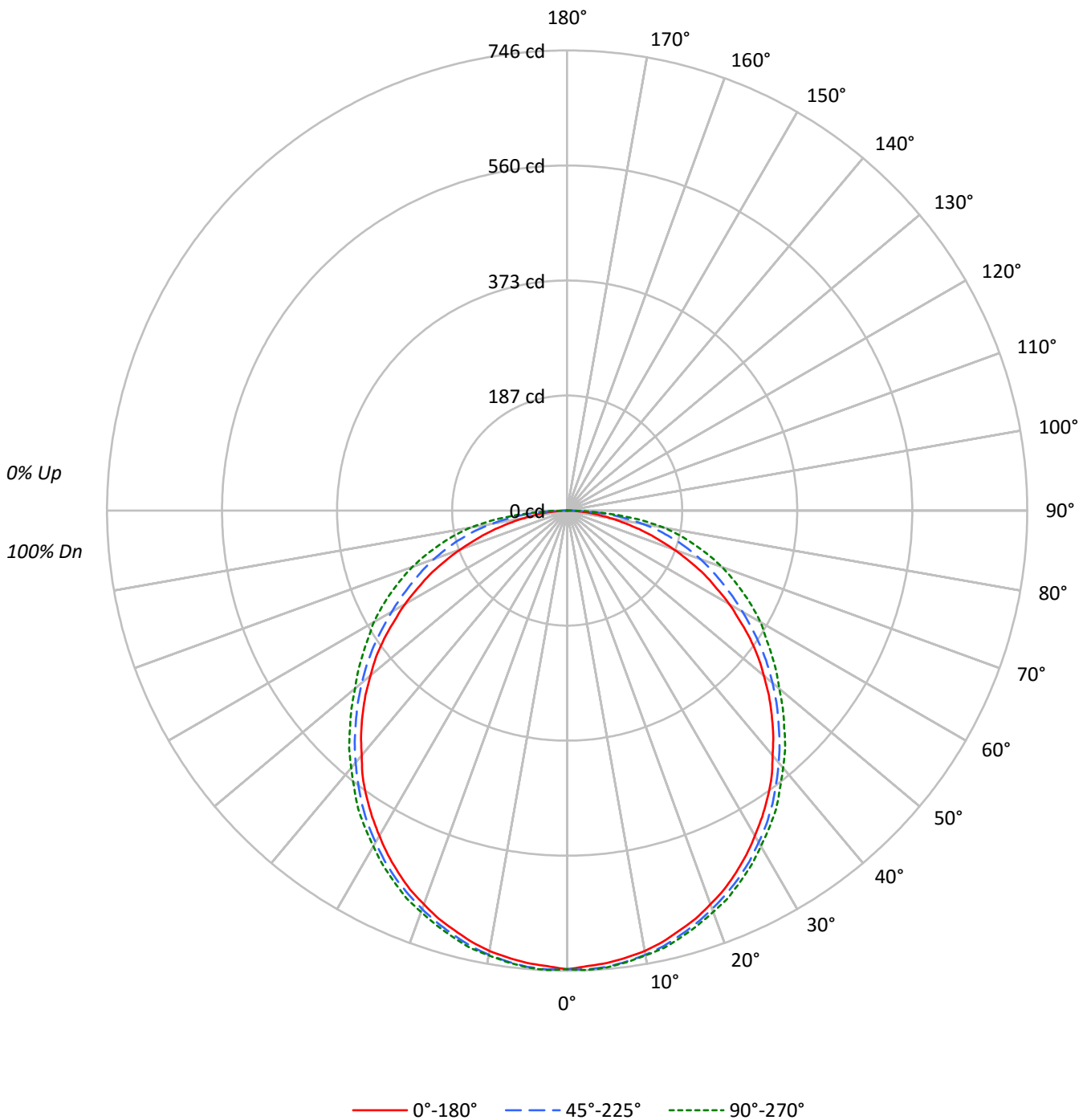
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2001	2001	2001
5°	1989	2006	2008
10°	1981	1998	2001
15°	1963	1983	1995
20°	1945	1968	1983
25°	1923	1953	1971
30°	1892	1930	1952
35°	1863	1906	1940
40°	1820	1874	1913
45°	1785	1843	1894
50°	1742	1819	1878
55°	1699	1795	1895
60°	1636	1767	1949
65°	1565	1766	2006
70°	1452	1806	2102
75°	1315	1866	2227
80°	1106	1928	2466
85°	883	1985	2519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.2
10°-20°	200.7	9.2
20°-30°	302.4	13.9
30°-40°	362.0	16.6
40°-50°	373.7	17.2
50°-60°	342.0	15.7
60°-70°	276.5	12.7
70°-80°	183.6	8.4
80°-90°	64.6	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°	573.5	26.4
0°-40°	935.5	43.0
0°-60°	1651.2	75.9
0°-90°	2176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	736	738	742	744	744	70
15°	705	708	712	715	716	199
25°	648	650	658	663	664	298
35°	567	569	580	586	590	354
45°	469	474	484	495	498	362
55°	362	367	382	397	404	323
65°	246	254	277	307	315	242
75°	126	142	180	204	214	133
85°	29	42	64	76	82	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.5	743.5	743.5	743.5	743.5
2.5°	739.4	740.4	744.5	745.5	745.5
5°	736.3	738.4	742.5	743.5	743.5
7.5°	731.2	733.3	737.4	739.4	738.4
10°	725.1	726.2	731.2	733.3	732.3
12.5°	716.0	718.0	723.1	725.1	726.2
15°	704.7	707.8	711.9	714.9	716.0
17.5°	693.5	695.6	700.7	703.7	704.7
20°	679.2	681.3	687.4	691.5	692.5
22.5°	665.0	666.0	673.1	678.2	680.3
25°	647.6	649.7	657.8	662.9	663.9
27.5°	629.3	632.3	640.5	645.6	647.6
30°	608.9	612.9	621.1	627.2	628.2
32.5°	588.5	592.5	601.7	608.9	609.9
35°	567.0	569.1	580.3	586.4	590.5
37.5°	544.6	547.7	556.9	565.0	567.0
40°	518.1	524.2	533.4	541.6	544.6
42.5°	494.6	498.7	509.9	518.1	523.2
45°	469.1	474.2	484.4	494.6	497.7
47.5°	443.6	448.7	460.0	470.2	474.2
50°	416.1	421.2	434.5	445.7	448.7
52.5°	390.6	395.7	409.0	420.2	427.3
55°	362.1	367.2	382.5	396.7	403.9
57.5°	331.5	339.6	354.9	372.3	381.4
60°	303.9	310.0	328.4	351.9	362.1
62.5°	273.3	281.5	302.9	329.4	338.6
65°	245.8	253.9	277.4	307.0	315.1
67.5°	214.2	224.4	253.9	282.5	290.7
70°	184.6	195.8	229.5	257.0	267.2
72.5°	154.0	168.3	205.0	231.5	240.7
75°	126.5	141.8	179.5	204.0	214.2
77.5°	96.9	117.3	153.0	178.5	187.7
80°	71.4	91.8	124.4	149.9	159.1
82.5°	49.0	66.3	94.8	116.3	122.4
85°	28.6	41.8	64.3	75.5	81.6
87.5°	12.2	19.4	29.6	36.7	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)