

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: P217878

Luminaire Tested: **R2X-WO-5L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217878
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-5L30-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 5, 3000K CCT.
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6277.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

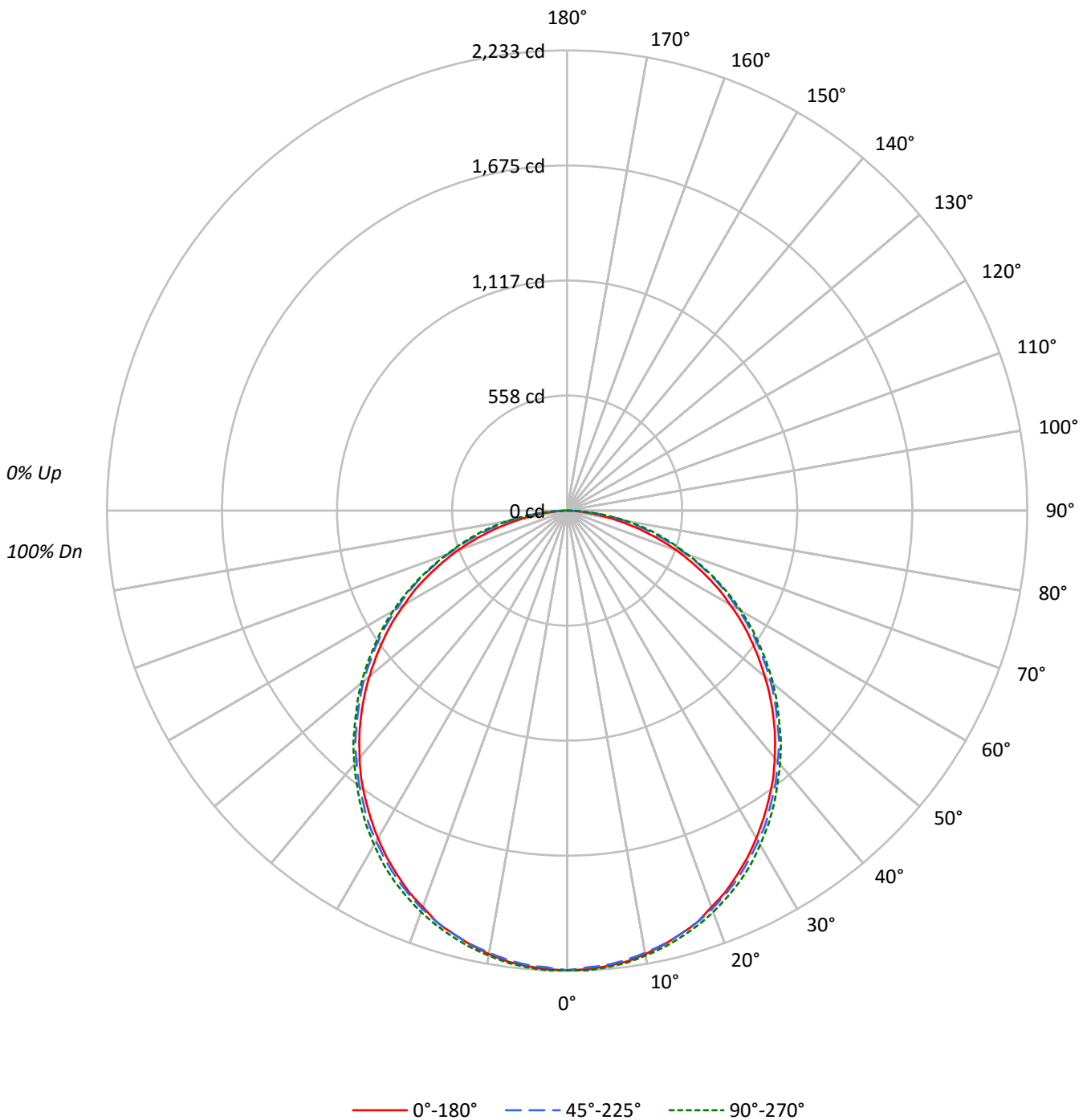
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6002	6002	6002
5°	5994	5979	6009
10°	5970	5954	5993
15°	5927	5927	5967
20°	5863	5888	5937
25°	5790	5833	5892
30°	5704	5758	5820
35°	5608	5674	5740
40°	5505	5585	5645
45°	5387	5485	5539
50°	5243	5399	5459
55°	5098	5286	5353
60°	4909	5155	5248
65°	4716	5044	5098
70°	4432	4837	4882
75°	3984	4549	4816
80°	3279	4342	4520
85°	2294	3798	3708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	3.4
10°-20°	602.1	9.6
20°-30°	906.9	14.4
30°-40°	1082.2	17.2
40°-50°	1112.1	17.7
50°-60°	1003.1	16.0
60°-70°	772.7	12.3
70°-80°	457.2	7.3
80°-90°	130.0	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°	1719.9	27.4
0°-40°	2802.1	44.6
0°-60°	4917.2	78.3
0°-90°	6277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2219	2222	2213	2225	2225	211
15°	2128	2130	2128	2142	2142	600
25°	1950	1962	1964	1982	1984	899
35°	1707	1719	1727	1744	1747	1068
45°	1416	1427	1441	1456	1456	1091
55°	1087	1107	1127	1141	1141	971
65°	741	764	792	804	801	733
75°	383	412	438	455	463	406
85°	74	106	123	126	120	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.4	2230.4	2230.4	2230.4	2230.4
2.5°	2227.6	2230.4	2219.0	2233.3	2233.3
5°	2219.0	2221.9	2213.3	2224.7	2224.7
7.5°	2207.6	2207.6	2199.0	2213.3	2213.3
10°	2184.7	2187.5	2179.0	2193.3	2193.3
12.5°	2158.9	2161.8	2156.1	2170.4	2170.4
15°	2127.5	2130.4	2127.5	2141.8	2141.8
17.5°	2096.0	2096.0	2096.0	2107.5	2110.3
20°	2047.4	2056.0	2056.0	2070.3	2073.2
22.5°	2004.5	2010.3	2013.1	2030.3	2030.3
25°	1950.2	1961.6	1964.5	1981.7	1984.5
27.5°	1895.9	1907.3	1910.2	1930.2	1933.0
30°	1835.8	1847.3	1853.0	1873.0	1873.0
32.5°	1772.9	1787.2	1795.8	1810.1	1812.9
35°	1707.1	1718.6	1727.2	1744.3	1747.2
37.5°	1641.4	1649.9	1661.4	1678.5	1675.7
40°	1567.0	1578.5	1589.9	1607.1	1607.1
42.5°	1492.7	1509.8	1521.3	1532.7	1535.6
45°	1415.5	1426.9	1441.2	1455.5	1455.5
47.5°	1335.4	1349.7	1366.9	1378.3	1381.2
50°	1252.5	1269.6	1289.6	1303.9	1303.9
52.5°	1169.5	1186.7	1206.7	1223.9	1223.9
55°	1086.6	1106.6	1126.7	1141.0	1141.0
57.5°	1003.7	1023.7	1043.7	1060.9	1060.9
60°	912.2	937.9	957.9	972.2	975.1
62.5°	832.1	849.3	875.0	889.3	889.3
65°	740.6	763.5	792.1	803.5	800.7
67.5°	652.0	672.0	700.6	720.6	712.0
70°	563.3	583.3	614.8	620.5	620.5
72.5°	471.8	500.4	529.0	534.7	540.5
75°	383.2	411.8	437.5	454.7	463.2
77.5°	297.4	326.0	357.4	374.6	380.3
80°	211.6	245.9	280.2	291.7	291.7
82.5°	140.1	168.7	200.2	203.0	205.9
85°	74.3	105.8	123.0	125.8	120.1
87.5°	28.6	40.0	48.6	51.5	51.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)