

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: P217886

Luminaire Tested: **R2X-WO-4L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217886
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-4L40-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 4, 4000K CCT.
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

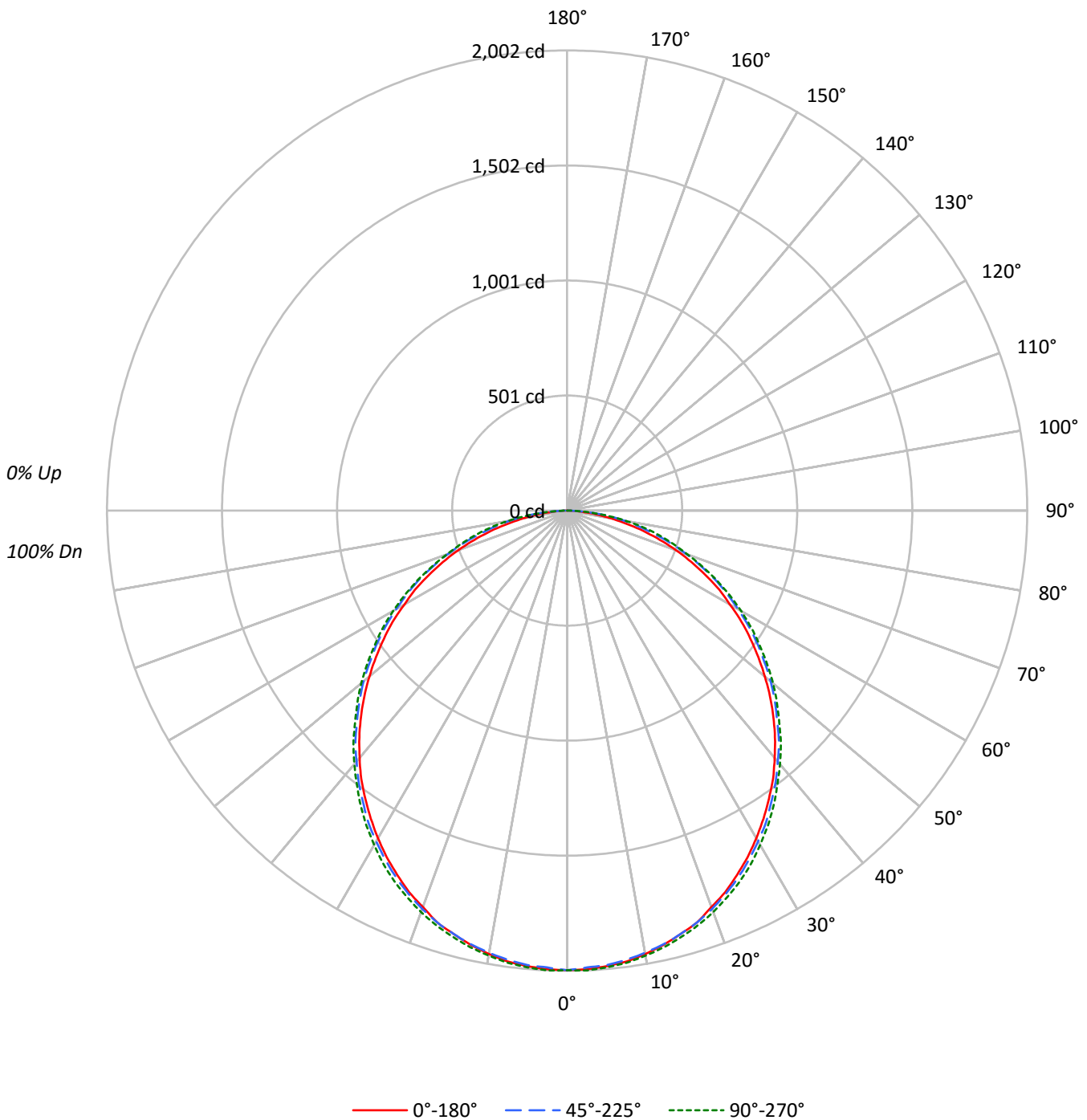
Lumens per Lamp: N/A
Luminaire Lumens: 5627.8 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.4
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°	5381	5381	5381
5°	5374	5360	5388
10°	5352	5338	5373
15°	5314	5314	5350
20°	5257	5279	5323
25°	5192	5230	5283
30°	5114	5162	5218
35°	5028	5087	5146
40°	4935	5008	5061
45°	4830	4917	4966
50°	4701	4841	4894
55°	4571	4739	4799
60°	4401	4623	4705
65°	4228	4522	4571
70°	3974	4337	4377
75°	3571	4079	4318
80°	2940	3894	4052
85°	2059	3402	3325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	3.4
10°-20°	539.8	9.6
20°-30°	813.1	14.4
30°-40°	970.3	17.2
40°-50°	997.0	17.7
50°-60°	899.3	16.0
60°-70°	692.8	12.3
70°-80°	409.9	7.3
80°-90°	116.5	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°	1542.0	27.4
0°-40°	2512.2	44.6
0°-60°	4408.6	78.3
0°-90°	5627.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5627.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	1990	1992	1984	1995	1995	189
15°	1907	1910	1907	1920	1920	538
25°	1748	1759	1761	1777	1779	806
35°	1531	1541	1548	1564	1566	958
45°	1269	1279	1292	1305	1305	978
55°	974	992	1010	1023	1023	871
65°	664	684	710	720	718	657
75°	344	369	392	408	415	364
85°	67	95	110	113	108	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.7	1999.7	1999.7	1999.7	1999.7
2.5°	1997.2	1999.7	1989.5	2002.3	2002.3
5°	1989.5	1992.1	1984.4	1994.6	1994.6
7.5°	1979.2	1979.2	1971.5	1984.4	1984.4
10°	1958.7	1961.3	1953.6	1966.4	1966.4
12.5°	1935.7	1938.2	1933.1	1945.9	1945.9
15°	1907.4	1910.0	1907.4	1920.3	1920.3
17.5°	1879.2	1879.2	1879.2	1889.5	1892.1
20°	1835.7	1843.4	1843.4	1856.2	1858.7
22.5°	1797.2	1802.3	1804.9	1820.3	1820.3
25°	1748.5	1758.8	1761.3	1776.7	1779.3
27.5°	1699.8	1710.0	1712.6	1730.5	1733.1
30°	1645.9	1656.2	1661.3	1679.3	1679.3
32.5°	1589.5	1602.4	1610.1	1622.9	1625.4
35°	1530.6	1540.8	1548.5	1563.9	1566.5
37.5°	1471.6	1479.3	1489.6	1504.9	1502.4
40°	1404.9	1415.2	1425.5	1440.8	1440.8
42.5°	1338.3	1353.7	1363.9	1374.2	1376.7
45°	1269.1	1279.3	1292.1	1305.0	1305.0
47.5°	1197.3	1210.1	1225.5	1235.7	1238.3
50°	1122.9	1138.3	1156.3	1169.1	1169.1
52.5°	1048.6	1064.0	1081.9	1097.3	1097.3
55°	974.2	992.2	1010.1	1022.9	1022.9
57.5°	899.9	917.8	935.8	951.2	951.2
60°	817.8	840.9	858.9	871.7	874.2
62.5°	746.1	761.4	784.5	797.3	797.3
65°	664.0	684.5	710.2	720.4	717.9
67.5°	584.5	602.5	628.1	646.1	638.4
70°	505.1	523.0	551.2	556.3	556.3
72.5°	423.0	448.7	474.3	479.4	484.6
75°	343.5	369.2	392.3	407.6	415.3
77.5°	266.6	292.3	320.5	335.9	341.0
80°	189.7	220.5	251.3	261.5	261.5
82.5°	125.6	151.3	179.5	182.0	184.6
85°	66.7	94.9	110.2	112.8	107.7
87.5°	25.6	35.9	43.6	46.1	46.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)