

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: P217917

Luminaire Tested: **R2X-WO-4L40-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35823-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-24  
Description: CLASS R2X 2X4 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: 6666.5 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

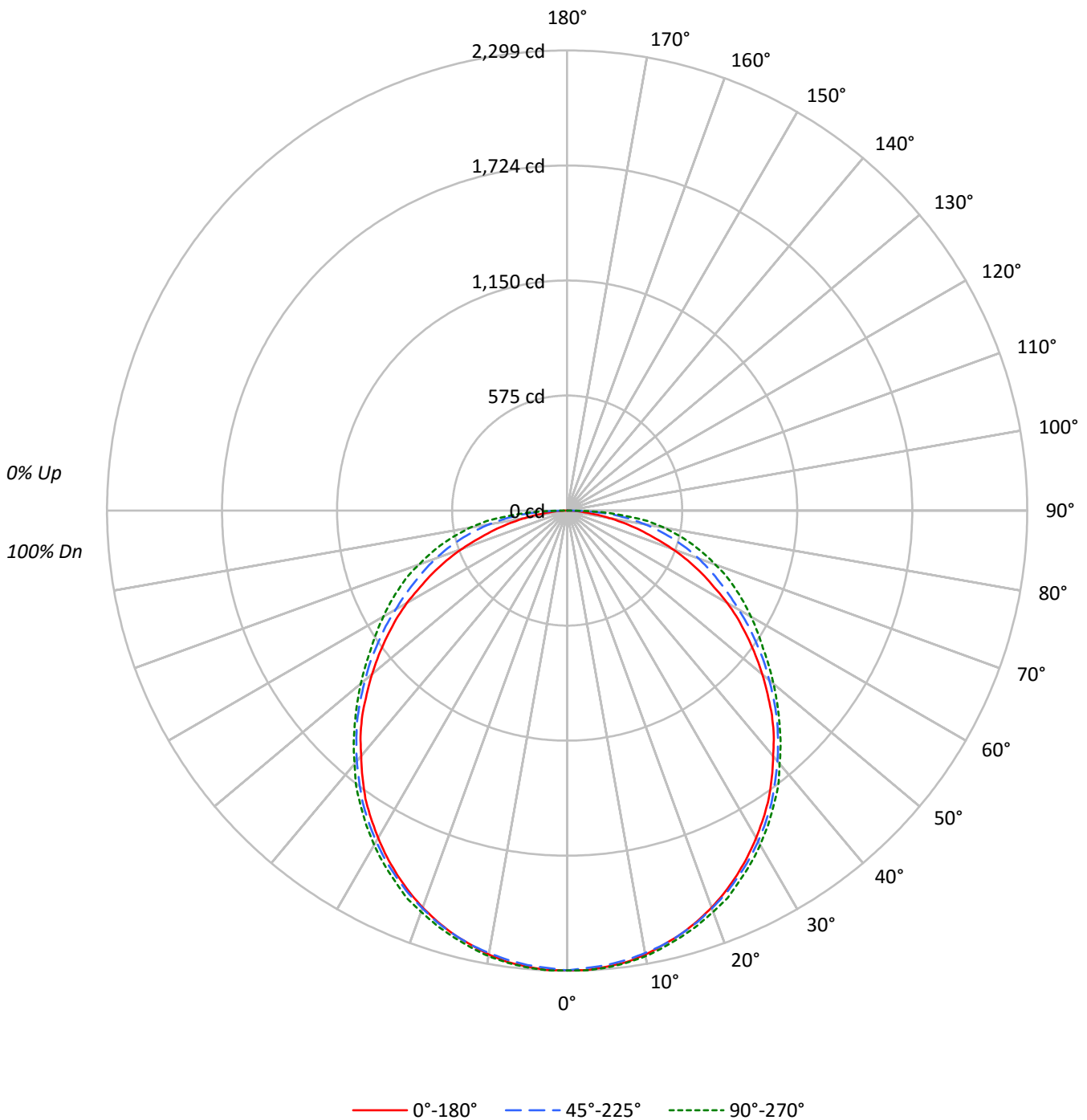
Input Watts (W): 57.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	92	96	93	90	92	89	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	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	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	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3091	3091	3091
5°	3089	3078	3094
10°	3078	3067	3089
15°	3053	3053	3070
20°	3023	3028	3054
25°	2981	2999	3029
30°	2934	2965	2997
35°	2886	2926	2955
40°	2812	2872	2901
45°	2754	2823	2854
50°	2665	2758	2817
55°	2578	2706	2801
60°	2489	2663	2854
65°	2365	2668	2958
70°	2198	2747	3097
75°	1968	2862	3356
80°	1647	3058	3811
85°	1187	3500	4343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.3	3.3
10°-20°	620.1	9.3
20°-30°	933.1	14.0
30°-40°	1112.9	16.7
40°-50°	1141.0	17.1
50°-60°	1033.4	15.5
60°-70°	831.3	12.5
70°-80°	559.1	8.4
80°-90°	218.5	3.3
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°	1770.4	26.6
0°-40°	2883.3	43.3
0°-60°	5057.6	75.9
0°-90°	6666.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6666.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2287	2287	2279	2291	2291	217
15°	2192	2196	2192	2206	2204	618
25°	2008	2014	2020	2040	2040	925
35°	1757	1765	1781	1795	1799	1097
45°	1447	1461	1484	1498	1500	1114
55°	1099	1127	1154	1186	1194	983
65°	743	773	838	913	929	733
75°	378	435	550	619	646	401
85°	77	148	227	265	281	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2297.2	2297.2	2297.2	2297.2	2297.2
2.5°	2297.2	2297.2	2287.1	2299.2	2299.2
5°	2287.1	2287.1	2279.0	2291.1	2291.1
7.5°	2274.9	2274.9	2264.8	2279.0	2279.0
10°	2252.7	2252.7	2244.6	2260.8	2260.8
12.5°	2222.3	2228.4	2222.3	2236.5	2234.4
15°	2191.9	2196.0	2191.9	2206.1	2204.1
17.5°	2153.5	2157.5	2157.5	2171.7	2171.7
20°	2111.0	2115.0	2115.0	2133.2	2133.2
22.5°	2062.4	2068.5	2070.5	2090.7	2094.8
25°	2007.8	2013.8	2019.9	2040.1	2040.1
27.5°	1951.1	1957.2	1967.3	1987.5	1987.5
30°	1888.3	1898.5	1908.6	1930.9	1928.8
32.5°	1823.6	1833.7	1845.8	1864.1	1866.1
35°	1756.8	1764.9	1781.1	1795.2	1799.3
37.5°	1679.9	1692.0	1706.2	1730.5	1732.5
40°	1600.9	1615.1	1635.4	1655.6	1651.5
42.5°	1528.1	1542.3	1558.4	1578.7	1578.7
45°	1447.1	1461.3	1483.6	1497.7	1499.8
47.5°	1358.1	1380.3	1400.6	1420.8	1422.8
50°	1273.1	1297.4	1317.6	1343.9	1345.9
52.5°	1186.0	1212.3	1238.7	1262.9	1269.0
55°	1099.0	1127.3	1153.7	1186.0	1194.1
57.5°	1014.0	1042.3	1074.7	1111.2	1127.3
60°	924.9	955.3	989.7	1042.3	1060.6
62.5°	827.8	862.2	912.8	975.5	995.8
65°	742.8	773.2	837.9	912.8	929.0
67.5°	651.7	682.1	767.1	842.0	864.2
70°	558.6	597.1	698.3	771.1	787.3
72.5°	463.5	514.1	625.4	696.2	716.5
75°	378.5	435.2	550.5	619.3	645.6
77.5°	293.5	364.3	473.6	540.4	568.7
80°	212.5	295.5	394.7	461.5	491.8
82.5°	135.6	218.6	313.7	382.5	406.8
85°	76.9	147.7	226.7	265.1	281.3
87.5°	30.4	72.9	121.4	159.9	170.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)