

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: P217915

Luminaire Tested: **R2X-WO-2L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217915
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-2L40-LD5-UNV-24
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 2, 4000K CCT.
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

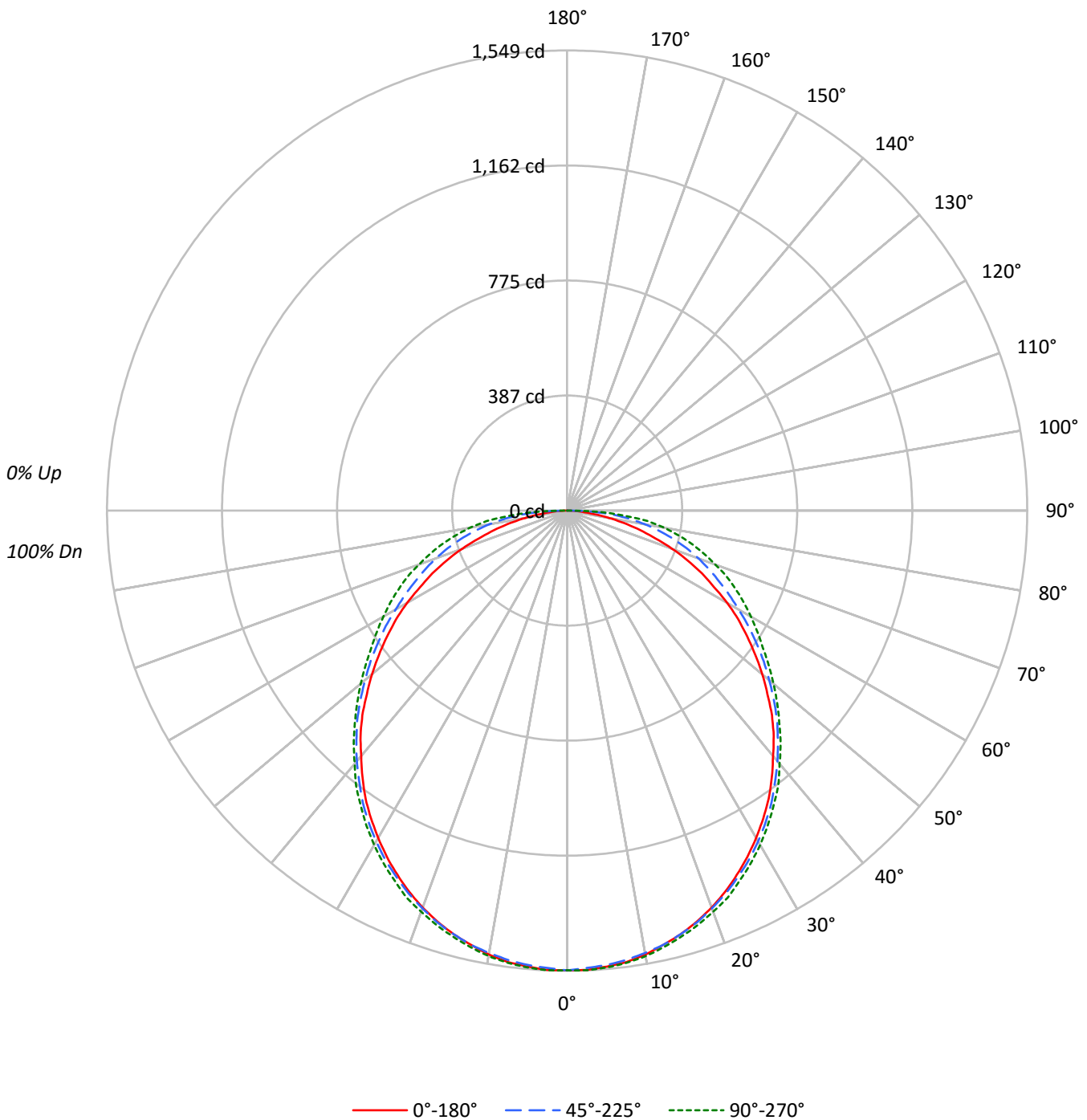
Lumens per Lamp: N/A
Luminaire Lumens: 4491.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
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°	2082	2082	2082
5°	2081	2074	2085
10°	2073	2066	2081
15°	2057	2057	2068
20°	2036	2040	2058
25°	2008	2020	2040
30°	1976	1998	2019
35°	1944	1971	1991
40°	1894	1935	1954
45°	1855	1902	1922
50°	1795	1858	1898
55°	1737	1823	1887
60°	1677	1794	1923
65°	1593	1797	1992
70°	1480	1851	2087
75°	1326	1928	2261
80°	1110	2060	2567
85°	800	2357	2925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.3
10°-20°	417.7	9.3
20°-30°	628.6	14.0
30°-40°	749.7	16.7
40°-50°	768.6	17.1
50°-60°	696.2	15.5
60°-70°	560.0	12.5
70°-80°	376.6	8.4
80°-90°	147.2	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°	1192.7	26.6
0°-40°	1942.4	43.3
0°-60°	3407.2	75.9
0°-90°	4491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1541	1541	1535	1544	1544	146
15°	1477	1479	1477	1486	1485	416
25°	1353	1357	1361	1374	1374	623
35°	1184	1189	1200	1209	1212	739
45°	975	984	999	1009	1010	750
55°	740	760	777	799	804	663
65°	500	521	564	615	626	494
75°	255	293	371	417	435	270
85°	52	100	153	179	190	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1547.5	1547.5	1547.5	1547.5	1547.5
2.5°	1547.5	1547.5	1540.7	1548.9	1548.9
5°	1540.7	1540.7	1535.3	1543.5	1543.5
7.5°	1532.6	1532.6	1525.7	1535.3	1535.3
10°	1517.6	1517.6	1512.1	1523.0	1523.0
12.5°	1497.1	1501.2	1497.1	1506.6	1505.3
15°	1476.6	1479.4	1476.6	1486.2	1484.8
17.5°	1450.7	1453.5	1453.5	1463.0	1463.0
20°	1422.1	1424.8	1424.8	1437.1	1437.1
22.5°	1389.4	1393.5	1394.8	1408.5	1411.2
25°	1352.6	1356.7	1360.8	1374.4	1374.4
27.5°	1314.4	1318.5	1325.3	1338.9	1338.9
30°	1272.1	1278.9	1285.8	1300.8	1299.4
32.5°	1228.5	1235.3	1243.5	1255.8	1257.1
35°	1183.5	1189.0	1199.9	1209.4	1212.1
37.5°	1131.7	1139.9	1149.4	1165.8	1167.1
40°	1078.5	1088.1	1101.7	1115.3	1112.6
42.5°	1029.4	1039.0	1049.9	1063.5	1063.5
45°	974.9	984.4	999.4	1009.0	1010.3
47.5°	914.9	929.9	943.5	957.2	958.5
50°	857.6	874.0	887.6	905.4	906.7
52.5°	799.0	816.7	834.4	850.8	854.9
55°	740.4	759.5	777.2	799.0	804.5
57.5°	683.1	702.2	724.0	748.6	759.5
60°	623.1	643.6	666.7	702.2	714.5
62.5°	557.7	580.8	614.9	657.2	670.8
65°	500.4	520.8	564.5	614.9	625.8
67.5°	439.0	459.5	516.8	567.2	582.2
70°	376.3	402.2	470.4	519.5	530.4
72.5°	312.2	346.3	421.3	469.0	482.7
75°	255.0	293.1	370.9	417.2	435.0
77.5°	197.7	245.4	319.1	364.0	383.1
80°	143.2	199.1	265.9	310.9	331.3
82.5°	91.4	147.3	211.3	257.7	274.1
85°	51.8	99.5	152.7	178.6	189.5
87.5°	20.5	49.1	81.8	107.7	114.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)