

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: P217916

Luminaire Tested: **R2X-WO-3L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217916
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-3L40-LD5-UNV-24
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 3, 4000K CCT.
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5586.6 lumens
Efficiency: N/A
Efficacy: 123.1 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

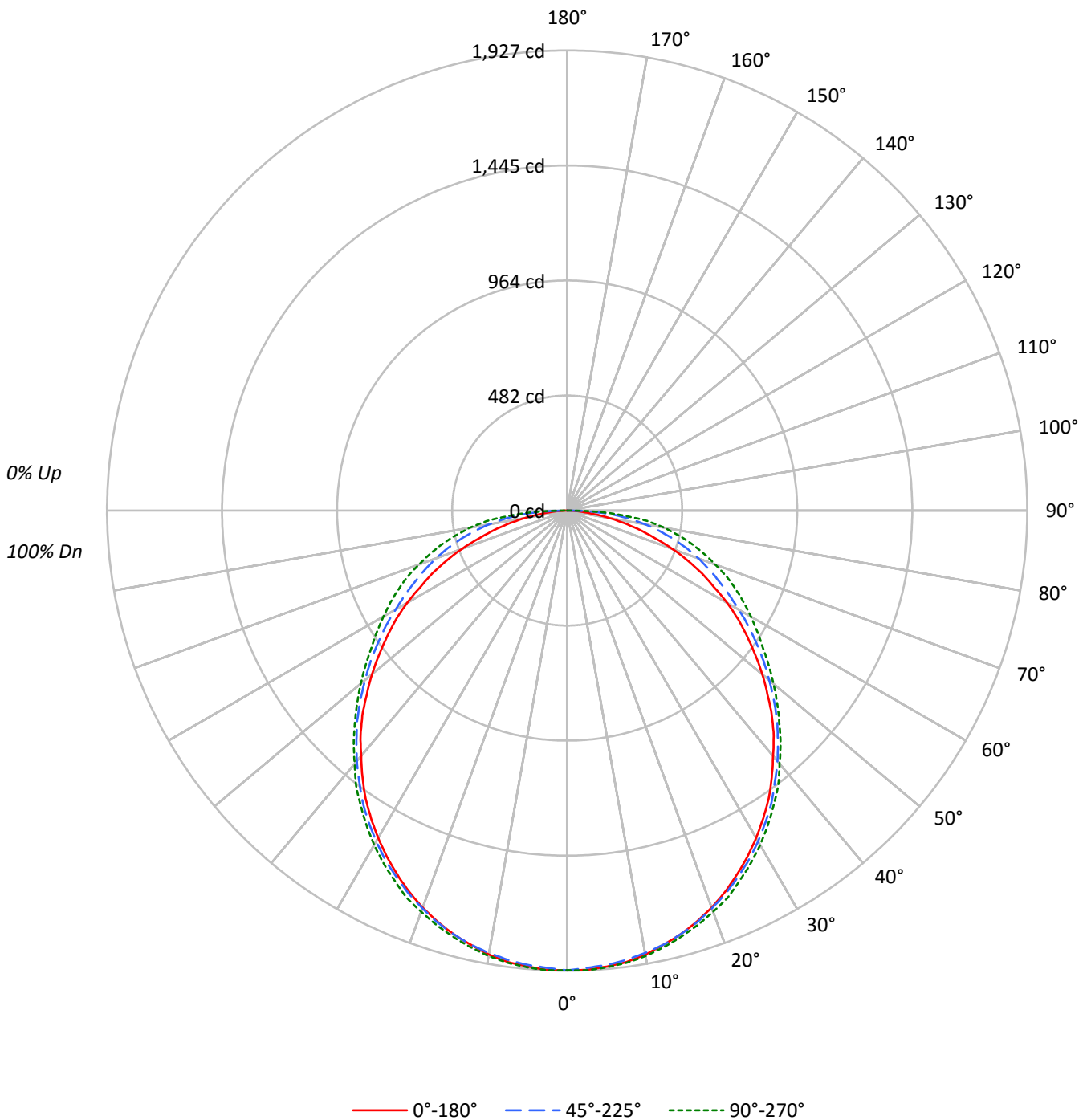
Input Watts (W): 45.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2590	2590	2590
5°	2589	2579	2593
10°	2579	2570	2588
15°	2559	2559	2573
20°	2533	2538	2560
25°	2498	2513	2538
30°	2459	2485	2511
35°	2418	2452	2477
40°	2356	2407	2431
45°	2308	2366	2391
50°	2233	2311	2361
55°	2160	2268	2347
60°	2086	2232	2392
65°	1982	2236	2479
70°	1841	2302	2596
75°	1649	2398	2813
80°	1380	2562	3194
85°	996	2933	3640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	3.3
10°-20°	519.6	9.3
20°-30°	781.9	14.0
30°-40°	932.6	16.7
40°-50°	956.1	17.1
50°-60°	866.0	15.5
60°-70°	696.6	12.5
70°-80°	468.5	8.4
80°-90°	183.1	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°	1483.6	26.6
0°-40°	2416.3	43.3
0°-60°	4238.4	75.9
0°-90°	5586.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5586.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1925	1925	1925	1925	1925	
5°	1917	1917	1910	1920	1920	182
15°	1837	1840	1837	1849	1847	518
25°	1682	1688	1693	1710	1710	775
35°	1472	1479	1493	1504	1508	919
45°	1213	1225	1243	1255	1257	933
55°	921	945	967	994	1001	824
65°	622	648	702	765	778	614
75°	317	365	461	519	541	336
85°	64	124	190	222	236	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.1	1925.1	1925.1	1925.1	1925.1
2.5°	1925.1	1925.1	1916.6	1926.8	1926.8
5°	1916.6	1916.6	1909.8	1920.0	1920.0
7.5°	1906.4	1906.4	1897.9	1909.8	1909.8
10°	1887.8	1887.8	1881.0	1894.5	1894.5
12.5°	1862.3	1867.4	1862.3	1874.2	1872.5
15°	1836.9	1840.3	1836.9	1848.7	1847.0
17.5°	1804.6	1808.0	1808.0	1819.9	1819.9
20°	1769.0	1772.4	1772.4	1787.7	1787.7
22.5°	1728.3	1733.4	1735.1	1752.1	1755.5
25°	1682.5	1687.6	1692.7	1709.7	1709.7
27.5°	1635.0	1640.1	1648.6	1665.6	1665.6
30°	1582.5	1590.9	1599.4	1618.1	1616.4
32.5°	1528.2	1536.7	1546.8	1562.1	1563.8
35°	1472.2	1479.0	1492.6	1504.4	1507.8
37.5°	1407.8	1417.9	1429.8	1450.2	1451.9
40°	1341.6	1353.5	1370.4	1387.4	1384.0
42.5°	1280.6	1292.4	1306.0	1323.0	1323.0
45°	1212.7	1224.6	1243.2	1255.1	1256.8
47.5°	1138.1	1156.7	1173.7	1190.7	1192.4
50°	1066.8	1087.2	1104.2	1126.2	1127.9
52.5°	993.9	1016.0	1038.0	1058.4	1063.5
55°	921.0	944.7	966.8	993.9	1000.7
57.5°	849.7	873.5	900.6	931.2	944.7
60°	775.1	800.6	829.4	873.5	888.8
62.5°	693.7	722.5	764.9	817.5	834.5
65°	622.5	647.9	702.2	764.9	778.5
67.5°	546.1	571.6	642.8	705.6	724.2
70°	468.1	500.3	585.2	646.2	659.8
72.5°	388.4	430.8	524.1	583.5	600.4
75°	317.2	364.7	461.3	519.0	541.1
77.5°	245.9	305.3	396.9	452.9	476.6
80°	178.1	247.6	330.7	386.7	412.2
82.5°	113.6	183.2	262.9	320.6	340.9
85°	64.5	123.8	190.0	222.2	235.8
87.5°	25.4	61.1	101.8	134.0	142.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)