

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: P217885

Luminaire Tested: **R2X-WO-3L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217885
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-3L40-LD5-UNV-14
Description: CLASS R2X 1X4 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: 4528.9 lumens
Efficiency: N/A
Efficacy: 127.2 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

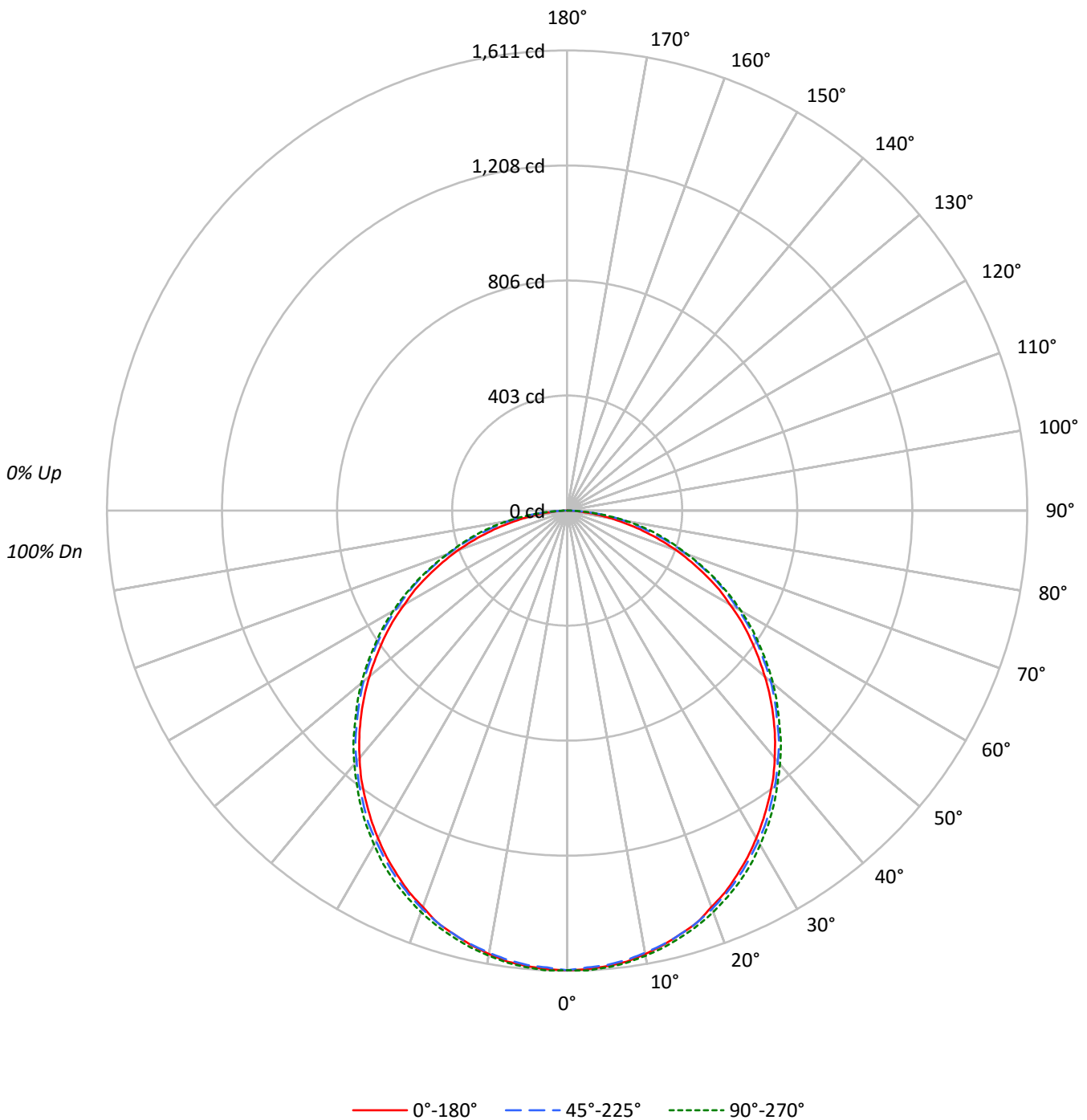
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4331	4331	4331
5°	4325	4314	4336
10°	4307	4296	4324
15°	4276	4276	4305
20°	4230	4248	4283
25°	4178	4208	4251
30°	4116	4154	4199
35°	4046	4094	4141
40°	3972	4030	4073
45°	3887	3957	3997
50°	3783	3895	3939
55°	3678	3814	3862
60°	3542	3720	3786
65°	3403	3639	3678
70°	3198	3490	3522
75°	2875	3282	3475
80°	2366	3133	3261
85°	1655	2739	2677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	3.4
10°-20°	434.4	9.6
20°-30°	654.3	14.4
30°-40°	780.8	17.2
40°-50°	802.4	17.7
50°-60°	723.7	16.0
60°-70°	557.5	12.3
70°-80°	329.9	7.3
80°-90°	93.8	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°	1240.9	27.4
0°-40°	2021.7	44.6
0°-60°	3547.8	78.3
0°-90°	4528.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4528.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1601	1603	1597	1605	1605	152
15°	1535	1537	1535	1545	1545	433
25°	1407	1415	1417	1430	1432	648
35°	1232	1240	1246	1258	1261	771
45°	1021	1030	1040	1050	1050	787
55°	784	798	813	823	823	701
65°	534	551	572	580	578	529
75°	276	297	316	328	334	293
85°	54	76	89	91	87	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.3	1609.3	1609.3	1609.3	1609.3
2.5°	1607.2	1609.3	1601.0	1611.3	1611.3
5°	1601.0	1603.1	1596.9	1605.2	1605.2
7.5°	1592.8	1592.8	1586.6	1596.9	1596.9
10°	1576.3	1578.3	1572.1	1582.5	1582.5
12.5°	1557.7	1559.8	1555.6	1566.0	1566.0
15°	1535.0	1537.1	1535.0	1545.3	1545.3
17.5°	1512.3	1512.3	1512.3	1520.6	1522.6
20°	1477.2	1483.4	1483.4	1493.7	1495.8
22.5°	1446.3	1450.4	1452.5	1464.9	1464.9
25°	1407.1	1415.3	1417.4	1429.8	1431.8
27.5°	1367.9	1376.1	1378.2	1392.6	1394.7
30°	1324.6	1332.8	1336.9	1351.4	1351.4
32.5°	1279.2	1289.5	1295.7	1306.0	1308.1
35°	1231.7	1240.0	1246.2	1258.5	1260.6
37.5°	1184.3	1190.5	1198.7	1211.1	1209.0
40°	1130.6	1138.9	1147.1	1159.5	1159.5
42.5°	1077.0	1089.4	1097.6	1105.9	1107.9
45°	1021.3	1029.5	1039.8	1050.2	1050.2
47.5°	963.5	973.8	986.2	994.5	996.5
50°	903.7	916.1	930.5	940.8	940.8
52.5°	843.8	856.2	870.7	883.0	883.0
55°	784.0	798.5	812.9	823.2	823.2
57.5°	724.2	738.6	753.1	765.4	765.4
60°	658.2	676.7	691.2	701.5	703.5
62.5°	600.4	612.8	631.3	641.6	641.6
65°	534.4	550.9	571.5	579.8	577.7
67.5°	470.4	484.8	505.5	519.9	513.7
70°	406.4	420.9	443.6	447.7	447.7
72.5°	340.4	361.1	381.7	385.8	389.9
75°	276.5	297.1	315.7	328.0	334.2
77.5°	214.6	235.2	257.9	270.3	274.4
80°	152.7	177.4	202.2	210.4	210.4
82.5°	101.1	121.7	144.4	146.5	148.5
85°	53.6	76.3	88.7	90.8	86.7
87.5°	20.6	28.9	35.1	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)