

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: P217903

Luminaire Tested: **R2X-WO-5L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35816-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2X-WO-5L40-LD5-UNV-22
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4248.3 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

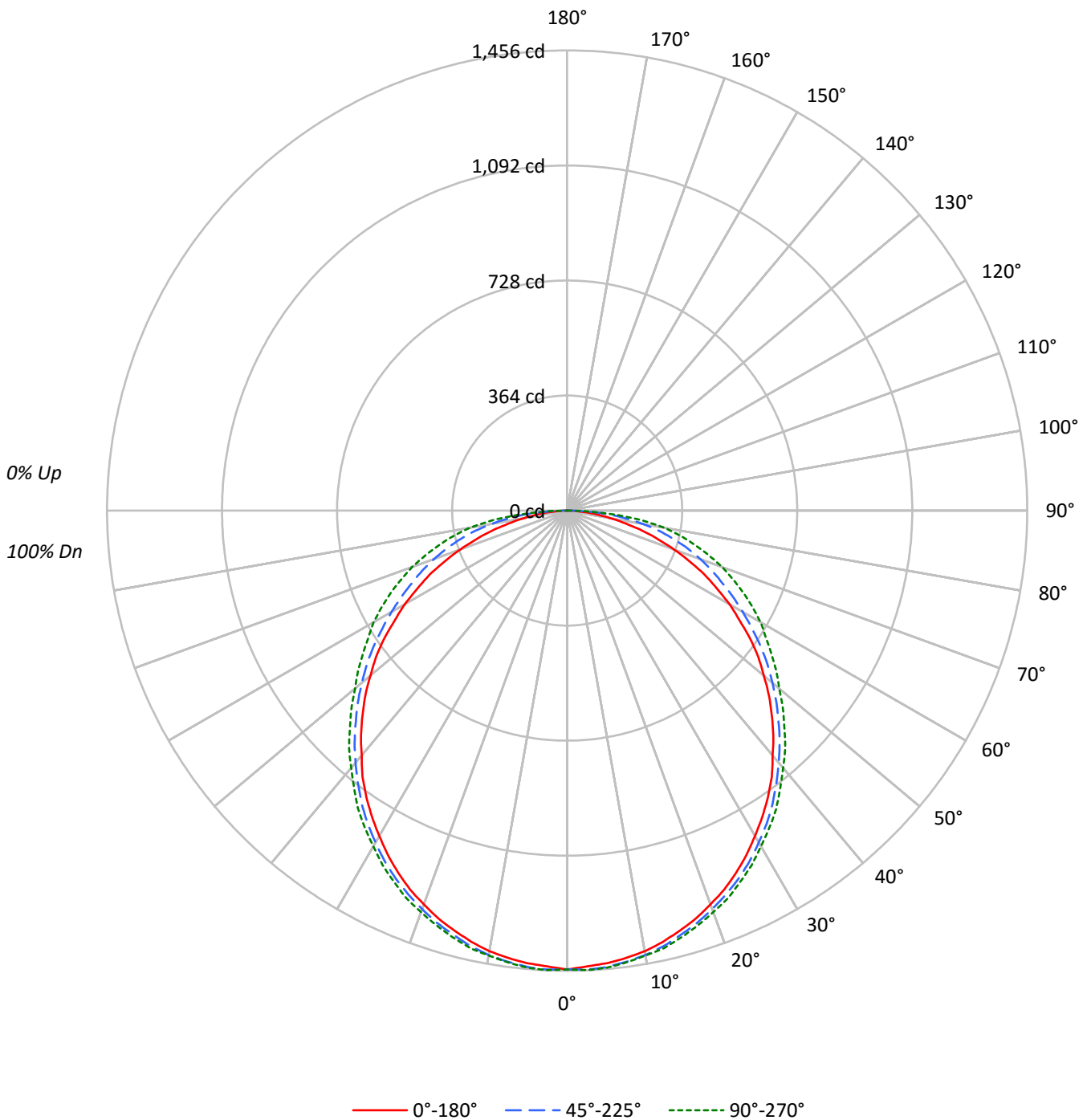
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	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	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	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	41	33	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3906	3906	3906
5°	3883	3916	3921
10°	3868	3901	3907
15°	3833	3872	3894
20°	3798	3843	3872
25°	3754	3813	3849
30°	3694	3768	3811
35°	3637	3722	3787
40°	3553	3658	3735
45°	3486	3599	3698
50°	3401	3551	3668
55°	3316	3503	3699
60°	3194	3451	3805
65°	3056	3449	3918
70°	2836	3525	4105
75°	2567	3643	4347
80°	2160	3764	4813
85°	1723	3872	4918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.2
10°-20°	391.8	9.2
20°-30°	590.5	13.9
30°-40°	706.8	16.6
40°-50°	729.6	17.2
50°-60°	667.7	15.7
60°-70°	539.9	12.7
70°-80°	358.5	8.4
80°-90°	126.2	3.0
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°	1119.7	26.4
0°-40°	1826.5	43.0
0°-60°	3223.8	75.9
0°-90°	4248.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4248.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1438	1442	1450	1452	1452	137
15°	1376	1382	1390	1396	1398	388
25°	1264	1268	1284	1294	1296	582
35°	1107	1111	1133	1145	1153	692
45°	916	926	946	966	972	706
55°	707	717	747	775	788	630
65°	480	496	542	599	615	472
75°	247	277	350	398	418	260
85°	56	82	125	147	159	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.6	1451.6	1451.6	1451.6	1451.6
2.5°	1443.6	1445.6	1453.6	1455.6	1455.6
5°	1437.6	1441.6	1449.6	1451.6	1451.6
7.5°	1427.7	1431.7	1439.6	1443.6	1441.6
10°	1415.7	1417.7	1427.7	1431.7	1429.7
12.5°	1397.8	1401.8	1411.7	1415.7	1417.7
15°	1375.9	1381.9	1389.8	1395.8	1397.8
17.5°	1354.0	1358.0	1367.9	1373.9	1375.9
20°	1326.1	1330.1	1342.1	1350.0	1352.0
22.5°	1298.2	1300.2	1314.2	1324.1	1328.1
25°	1264.4	1268.4	1284.3	1294.3	1296.3
27.5°	1228.6	1234.5	1250.5	1260.4	1264.4
30°	1188.7	1196.7	1212.6	1224.6	1226.6
32.5°	1148.9	1156.9	1174.8	1188.7	1190.7
35°	1107.1	1111.1	1133.0	1144.9	1152.9
37.5°	1063.3	1069.3	1087.2	1103.1	1107.1
40°	1011.5	1023.5	1041.4	1057.3	1063.3
42.5°	965.7	973.7	995.6	1011.5	1021.5
45°	915.9	925.9	945.8	965.7	971.7
47.5°	866.2	876.1	898.0	917.9	925.9
50°	812.4	822.4	848.2	870.1	876.1
52.5°	762.6	772.6	798.5	820.4	834.3
55°	706.9	716.8	746.7	774.6	788.5
57.5°	647.1	663.1	692.9	726.8	744.7
60°	593.4	605.3	641.2	687.0	706.9
62.5°	533.6	549.6	591.4	643.2	661.1
65°	479.9	495.8	541.6	599.3	615.3
67.5°	418.1	438.1	495.8	551.6	567.5
70°	360.4	382.3	448.0	501.8	521.7
72.5°	300.7	328.5	400.2	452.0	469.9
75°	246.9	276.8	350.4	398.2	418.1
77.5°	189.2	229.0	298.7	348.5	366.4
80°	139.4	179.2	242.9	292.7	310.6
82.5°	95.6	129.4	185.2	227.0	238.9
85°	55.8	81.6	125.4	147.3	159.3
87.5°	23.9	37.8	57.7	71.7	69.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)