

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: P217896

Luminaire Tested: **R2X-WO-4L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217896
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-4L35-LD5-UNV-22
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 4, 3500K CCT.
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3662.4 lumens
Efficiency: N/A
Efficacy: 115.5 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

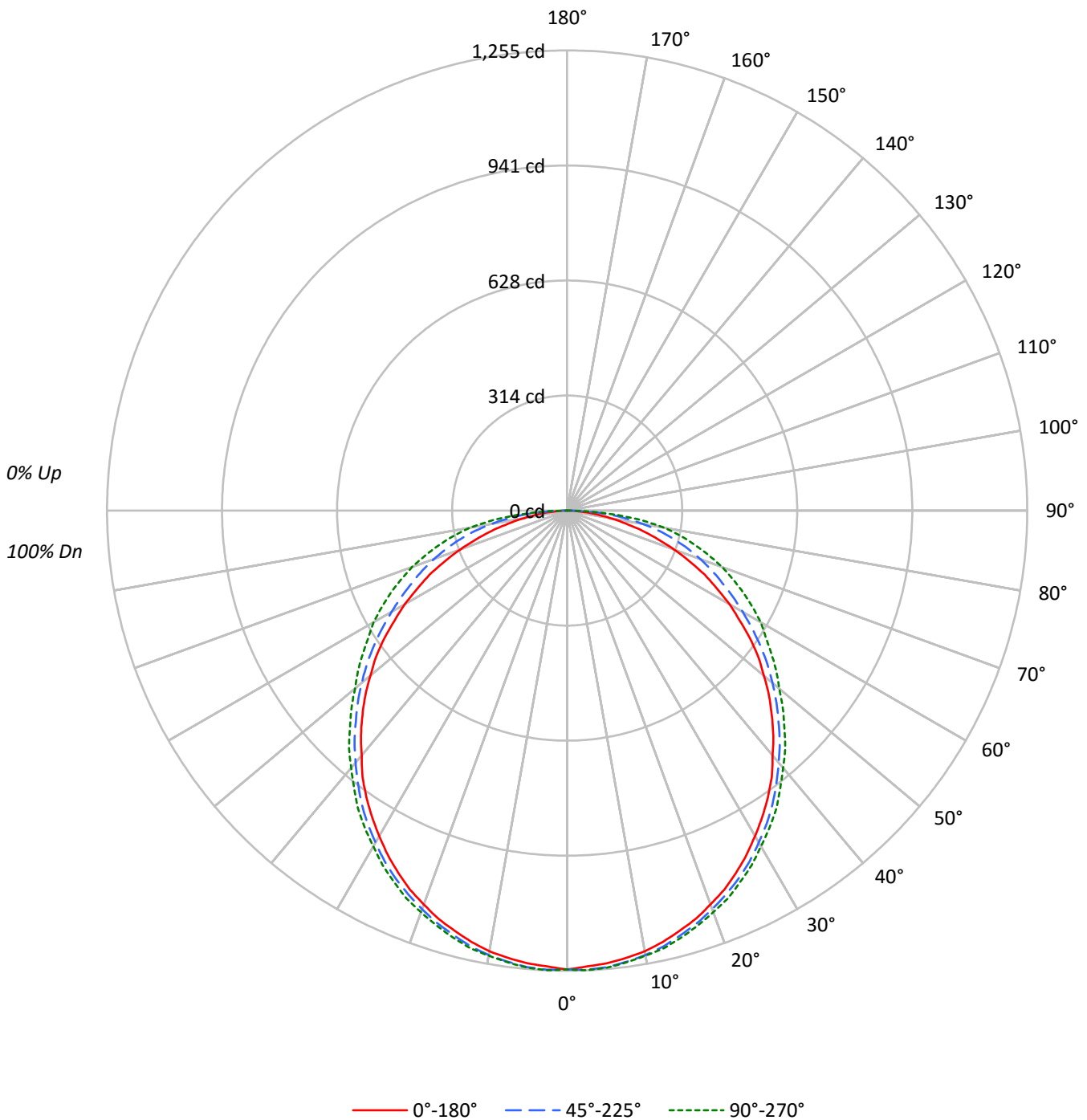
Input Watts (W): 31.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3367	3367	3367
5°	3348	3376	3380
10°	3335	3363	3368
15°	3305	3338	3357
20°	3274	3313	3338
25°	3236	3287	3318
30°	3184	3248	3286
35°	3135	3209	3265
40°	3063	3154	3220
45°	3005	3103	3188
50°	2932	3062	3162
55°	2859	3020	3189
60°	2753	2975	3280
65°	2634	2973	3377
70°	2445	3039	3538
75°	2214	3141	3748
80°	1863	3245	4150
85°	1485	3338	4239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.2
10°-20°	337.8	9.2
20°-30°	509.1	13.9
30°-40°	609.3	16.6
40°-50°	629.0	17.2
50°-60°	575.6	15.7
60°-70°	465.4	12.7
70°-80°	309.1	8.4
80°-90°	108.8	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°	965.3	26.4
0°-40°	1574.6	43.0
0°-60°	2779.2	75.9
0°-90°	3662.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3662.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1239	1243	1250	1251	1251	118
15°	1186	1191	1198	1203	1205	335
25°	1090	1094	1107	1116	1118	502
35°	954	958	977	987	994	597
45°	790	798	815	832	838	609
55°	609	618	644	668	680	544
65°	414	427	467	517	530	407
75°	213	239	302	343	360	224
85°	48	70	108	127	137	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1244.5	1246.2	1253.1	1254.8	1254.8
5°	1239.4	1242.8	1249.7	1251.4	1251.4
7.5°	1230.8	1234.2	1241.1	1244.5	1242.8
10°	1220.5	1222.2	1230.8	1234.2	1232.5
12.5°	1205.0	1208.5	1217.1	1220.5	1222.2
15°	1186.2	1191.3	1198.2	1203.3	1205.0
17.5°	1167.3	1170.7	1179.3	1184.4	1186.2
20°	1143.2	1146.7	1157.0	1163.8	1165.6
22.5°	1119.2	1120.9	1132.9	1141.5	1145.0
25°	1090.0	1093.5	1107.2	1115.8	1117.5
27.5°	1059.1	1064.3	1078.0	1086.6	1090.0
30°	1024.8	1031.7	1045.4	1055.7	1057.4
32.5°	990.5	997.3	1012.8	1024.8	1026.5
35°	954.4	957.9	976.7	987.0	993.9
37.5°	916.7	921.8	937.3	951.0	954.4
40°	872.0	882.3	897.8	911.5	916.7
42.5°	832.5	839.4	858.3	872.0	880.6
45°	789.6	798.2	815.4	832.5	837.7
47.5°	746.7	755.3	774.2	791.3	798.2
50°	700.4	708.9	731.3	750.1	755.3
52.5°	657.5	666.0	688.3	707.2	719.2
55°	609.4	618.0	643.7	667.8	679.8
57.5°	557.9	571.6	597.4	626.6	642.0
60°	511.5	521.8	552.7	592.2	609.4
62.5°	460.0	473.8	509.8	554.5	569.9
65°	413.7	427.4	466.9	516.7	530.4
67.5°	360.5	377.6	427.4	475.5	489.2
70°	310.7	329.6	386.2	432.6	449.7
72.5°	259.2	283.2	345.0	389.7	405.1
75°	212.9	238.6	302.1	343.3	360.5
77.5°	163.1	197.4	257.5	300.4	315.9
80°	120.2	154.5	209.4	252.3	267.8
82.5°	82.4	111.6	159.6	195.7	206.0
85°	48.1	70.4	108.1	127.0	137.3
87.5°	20.6	32.6	49.8	61.8	60.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)