

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: P217884

Luminaire Tested: **R2X-WO-2L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217884
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-2L40-LD5-UNV-14
Description: CLASS R2X 1X4 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: 3400.3 lumens
Efficiency: N/A
Efficacy: 133.9 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

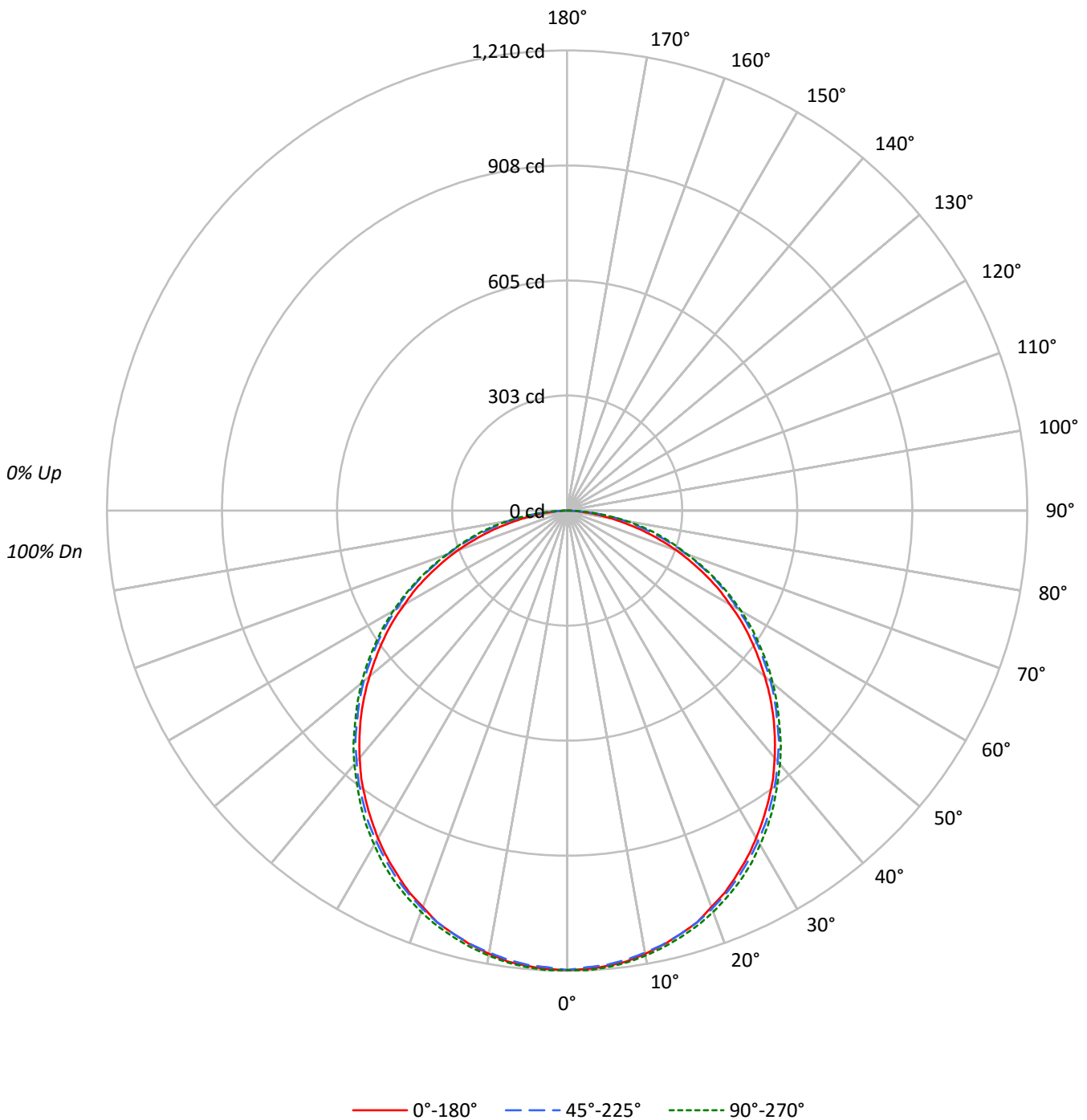
Input Watts (W): 25.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3251	3251	3251
5°	3247	3239	3255
10°	3234	3225	3246
15°	3211	3211	3232
20°	3176	3189	3216
25°	3137	3160	3192
30°	3090	3119	3153
35°	3038	3074	3109
40°	2982	3026	3058
45°	2918	2971	3000
50°	2840	2925	2957
55°	2761	2863	2900
60°	2659	2793	2843
65°	2555	2732	2762
70°	2401	2620	2644
75°	2158	2464	2609
80°	1776	2352	2448
85°	1244	2056	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.4
10°-20°	326.1	9.6
20°-30°	491.3	14.4
30°-40°	586.2	17.2
40°-50°	602.4	17.7
50°-60°	543.4	16.0
60°-70°	418.6	12.3
70°-80°	247.7	7.3
80°-90°	70.4	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°	931.6	27.4
0°-40°	1517.9	44.6
0°-60°	2663.7	78.3
0°-90°	3400.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1202	1204	1199	1205	1205	114
15°	1152	1154	1152	1160	1160	325
25°	1056	1063	1064	1074	1075	487
35°	925	931	936	945	946	579
45°	767	773	781	788	788	591
55°	589	600	610	618	618	526
65°	401	414	429	435	434	397
75°	208	223	237	246	251	220
85°	40	57	67	68	65	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.2	1208.2	1208.2	1208.2	1208.2
2.5°	1206.7	1208.2	1202.0	1209.8	1209.8
5°	1202.0	1203.6	1198.9	1205.1	1205.1
7.5°	1195.8	1195.8	1191.2	1198.9	1198.9
10°	1183.4	1185.0	1180.4	1188.1	1188.1
12.5°	1169.5	1171.1	1168.0	1175.7	1175.7
15°	1152.5	1154.0	1152.5	1160.2	1160.2
17.5°	1135.4	1135.4	1135.4	1141.6	1143.2
20°	1109.1	1113.7	1113.7	1121.5	1123.0
22.5°	1085.9	1089.0	1090.5	1099.8	1099.8
25°	1056.4	1062.6	1064.2	1073.5	1075.0
27.5°	1027.0	1033.2	1034.7	1045.6	1047.1
30°	994.5	1000.7	1003.8	1014.6	1014.6
32.5°	960.4	968.1	972.8	980.5	982.1
35°	924.8	931.0	935.6	944.9	946.4
37.5°	889.1	893.8	900.0	909.3	907.7
40°	848.9	855.1	861.3	870.5	870.5
42.5°	808.6	817.9	824.1	830.3	831.8
45°	766.8	773.0	780.7	788.4	788.4
47.5°	723.4	731.1	740.4	746.6	748.2
50°	678.5	687.8	698.6	706.4	706.4
52.5°	633.5	642.8	653.7	663.0	663.0
55°	588.6	599.5	610.3	618.1	618.1
57.5°	543.7	554.5	565.4	574.7	574.7
60°	494.1	508.1	518.9	526.7	528.2
62.5°	450.8	460.1	474.0	481.7	481.7
65°	401.2	413.6	429.1	435.3	433.7
67.5°	353.2	364.0	379.5	390.4	385.7
70°	305.2	316.0	333.0	336.1	336.1
72.5°	255.6	271.1	286.6	289.7	292.8
75°	207.6	223.1	237.0	246.3	250.9
77.5°	161.1	176.6	193.6	202.9	206.0
80°	114.6	133.2	151.8	158.0	158.0
82.5°	75.9	91.4	108.4	110.0	111.5
85°	40.3	57.3	66.6	68.2	65.1
87.5°	15.5	21.7	26.3	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)