

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: P217894

Luminaire Tested: **R2X-WO-2L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217894  
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-2L35-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 2, 3500K CCT.  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2659.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 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

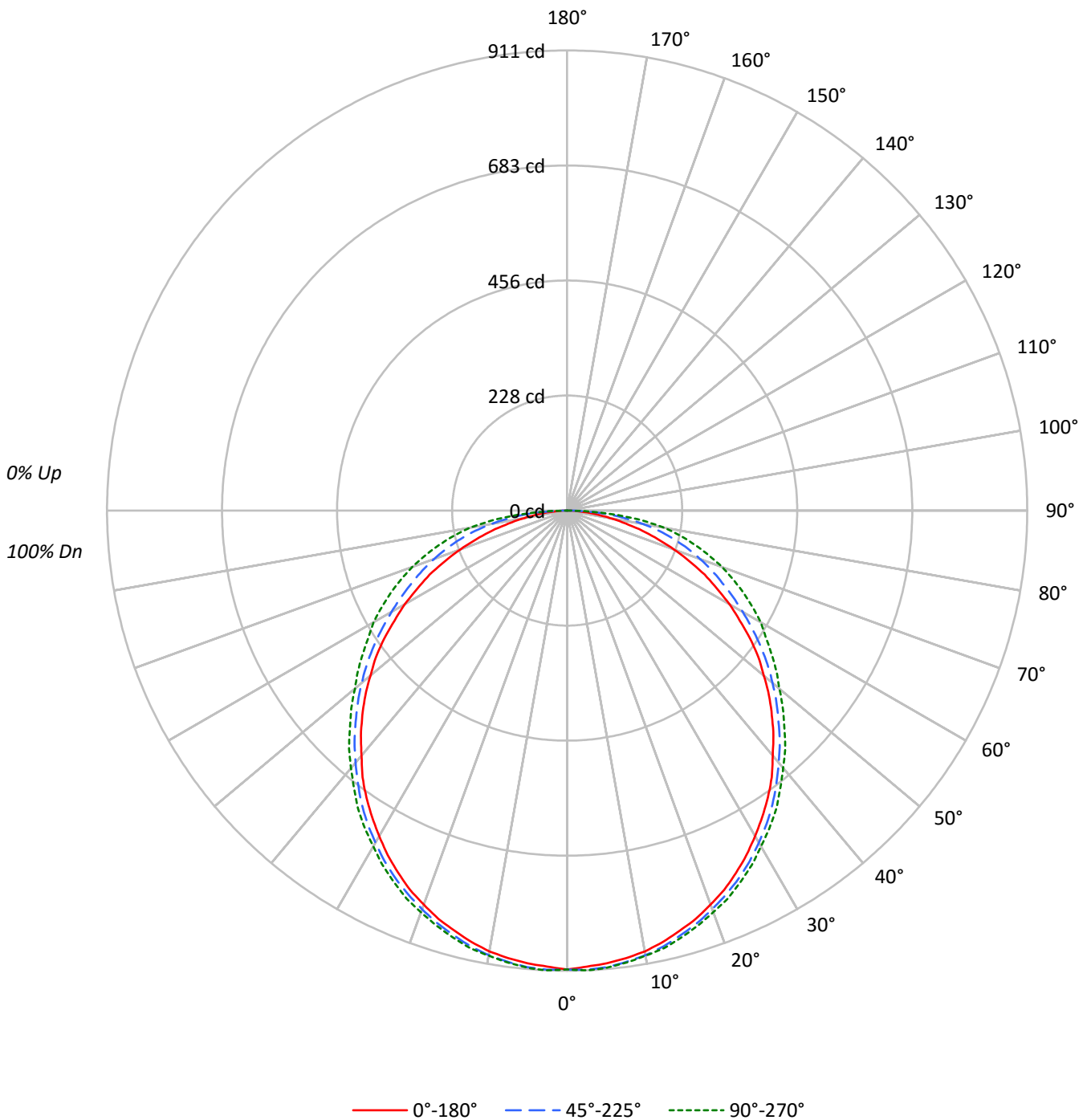
Input Watts (W): 22  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2445	2445	2445
5°	2431	2451	2454
10°	2421	2442	2445
15°	2399	2423	2437
20°	2377	2405	2423
25°	2350	2387	2409
30°	2312	2358	2385
35°	2276	2329	2371
40°	2224	2290	2338
45°	2182	2253	2315
50°	2129	2223	2296
55°	2076	2192	2315
60°	1999	2160	2381
65°	1912	2159	2452
70°	1775	2206	2569
75°	1606	2280	2721
80°	1351	2356	3013
85°	1078	2424	3078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.2
10°-20°	245.3	9.2
20°-30°	369.6	13.9
30°-40°	442.4	16.6
40°-50°	456.7	17.2
50°-60°	417.9	15.7
60°-70°	337.9	12.7
70°-80°	224.4	8.4
80°-90°	79.0	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°	700.8	26.4
0°-40°	1143.2	43.0
0°-60°	2017.7	75.9
0°-90°	2659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	900	902	907	908	908	85
15°	861	865	870	874	875	243
25°	791	794	804	810	811	364
35°	693	695	709	717	722	433
45°	573	580	592	604	608	442
55°	442	449	467	485	494	395
65°	300	310	339	375	385	296
75°	154	173	219	249	262	163
85°	35	51	78	92	100	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	908.5	908.5	908.5	908.5	908.5
2.5°	903.5	904.8	909.8	911.0	911.0
5°	899.8	902.3	907.3	908.5	908.5
7.5°	893.6	896.1	901.0	903.5	902.3
10°	886.1	887.3	893.6	896.1	894.8
12.5°	874.9	877.4	883.6	886.1	887.3
15°	861.2	864.9	869.9	873.6	874.9
17.5°	847.5	849.9	856.2	859.9	861.2
20°	830.0	832.5	840.0	845.0	846.2
22.5°	812.6	813.8	822.5	828.8	831.3
25°	791.4	793.9	803.8	810.1	811.3
27.5°	768.9	772.7	782.6	788.9	791.4
30°	744.0	749.0	759.0	766.4	767.7
32.5°	719.1	724.1	735.3	744.0	745.3
35°	692.9	695.4	709.1	716.6	721.6
37.5°	665.5	669.2	680.5	690.4	692.9
40°	633.1	640.6	651.8	661.8	665.5
42.5°	604.4	609.4	623.1	633.1	639.3
45°	573.3	579.5	592.0	604.4	608.2
47.5°	542.1	548.4	562.1	574.5	579.5
50°	508.5	514.7	530.9	544.6	548.4
52.5°	477.3	483.5	499.7	513.5	522.2
55°	442.4	448.7	467.3	484.8	493.5
57.5°	405.0	415.0	433.7	454.9	466.1
60°	371.4	378.9	401.3	430.0	442.4
62.5°	334.0	344.0	370.1	402.5	413.8
65°	300.3	310.3	339.0	375.1	385.1
67.5°	261.7	274.2	310.3	345.2	355.2
70°	225.6	239.3	280.4	314.1	326.5
72.5°	188.2	205.6	250.5	282.9	294.1
75°	154.5	173.2	219.3	249.3	261.7
77.5°	118.4	143.3	186.9	218.1	229.3
80°	87.2	112.2	152.0	183.2	194.4
82.5°	59.8	81.0	115.9	142.1	149.6
85°	34.9	51.1	78.5	92.2	99.7
87.5°	15.0	23.7	36.1	44.9	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)