

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P302198

Luminaire Tested: **ZX-WO-24L830-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-24L830-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (112)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

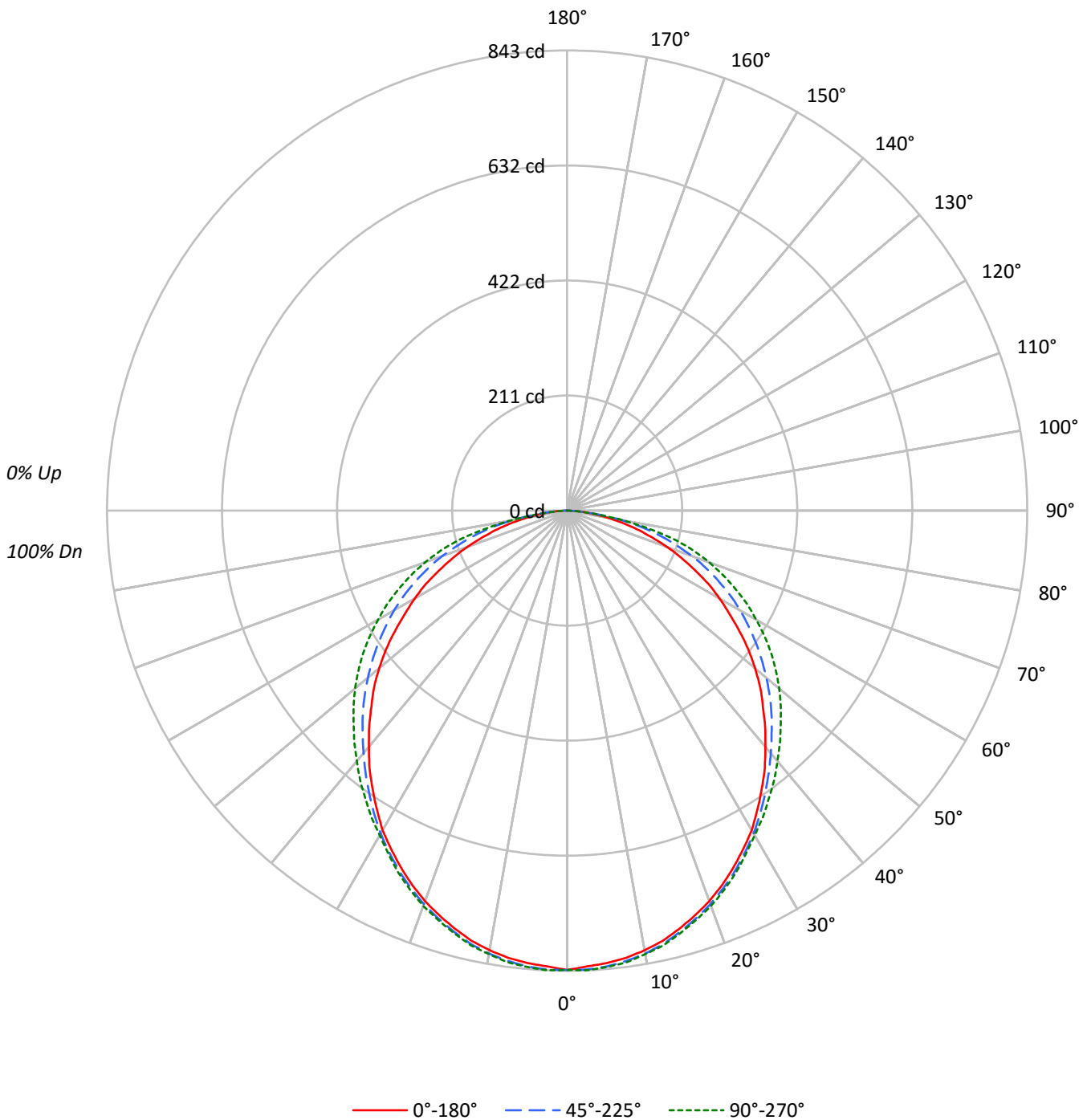
Lumens per Lamp: N/A  
Luminaire Lumens: 2339.3 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2265	2265	2265
5°	2248	2264	2267
10°	2235	2251	2255
15°	2210	2226	2233
20°	2180	2197	2207
25°	2141	2162	2173
30°	2101	2123	2134
35°	2043	2077	2116
40°	1985	2039	2105
45°	1930	2015	2105
50°	1881	1994	2123
55°	1808	1980	2141
60°	1737	1972	2150
65°	1641	1950	2167
70°	1534	1916	2176
75°	1377	1818	2101
80°	1155	1593	1612
85°	914	914	729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	3.4
10°-20°	225.1	9.6
20°-30°	335.0	14.3
30°-40°	396.2	16.9
40°-50°	409.4	17.5
50°-60°	376.4	16.1
60°-70°	299.3	12.8
70°-80°	179.3	7.7
80°-90°	39.1	1.7
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°	639.5	27.3
0°-40°	1035.7	44.3
0°-60°	1821.6	77.9
0°-90°	2339.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	832	834	838	839	839	79
15°	793	796	799	801	801	224
25°	721	723	728	732	732	332
35°	622	625	632	641	644	389
45°	507	512	530	548	553	392
55°	385	394	422	448	456	345
65°	258	273	306	333	340	256
75°	132	150	175	195	202	140
85°	30	32	30	27	24	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	841.6	841.6	841.6	841.6	841.6
2.5°	835.7	838.1	841.6	842.8	842.8
5°	832.2	834.5	838.1	839.3	839.3
7.5°	826.3	828.6	832.2	833.4	834.5
10°	818.0	820.4	823.9	825.1	825.1
12.5°	807.4	808.5	813.3	814.4	815.6
15°	793.2	795.5	799.1	801.4	801.4
17.5°	777.8	780.2	783.7	786.1	786.1
20°	761.3	763.6	767.2	769.5	770.7
22.5°	742.3	744.7	748.3	751.8	751.8
25°	721.1	723.4	728.2	731.7	731.7
27.5°	698.6	701.0	705.7	709.2	709.2
30°	676.1	677.3	683.2	685.6	686.8
32.5°	649.0	652.5	658.4	663.1	666.7
35°	621.8	625.3	632.4	640.7	644.2
37.5°	594.6	598.1	606.4	618.2	623.0
40°	565.0	569.8	580.4	595.8	599.3
42.5°	536.7	542.6	554.4	572.1	576.9
45°	507.1	511.8	529.6	548.5	553.2
47.5°	479.9	483.5	503.6	524.8	530.8
50°	449.2	453.9	476.4	500.0	507.1
52.5°	418.5	424.4	449.2	474.0	482.3
55°	385.4	393.6	422.0	448.0	456.3
57.5°	352.3	364.1	393.6	419.6	429.1
60°	322.7	333.3	366.4	391.3	399.5
62.5°	292.0	303.8	336.9	361.7	372.4
65°	257.7	273.1	306.2	333.3	340.4
67.5°	227.0	242.3	275.4	300.2	309.7
70°	195.0	212.8	243.5	266.0	276.6
72.5°	161.9	180.9	208.0	231.7	242.3
75°	132.4	150.1	174.9	195.0	202.1
77.5°	102.8	119.4	139.5	151.3	153.7
80°	74.5	87.5	102.8	105.2	104.0
82.5°	49.6	59.1	63.8	61.5	61.5
85°	29.6	31.9	29.6	27.2	23.6
87.5°	10.6	9.5	7.1	4.7	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)