

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: P302210

Luminaire Tested: **ZX-WO-24L840-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302210  
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-24L840-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (112)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

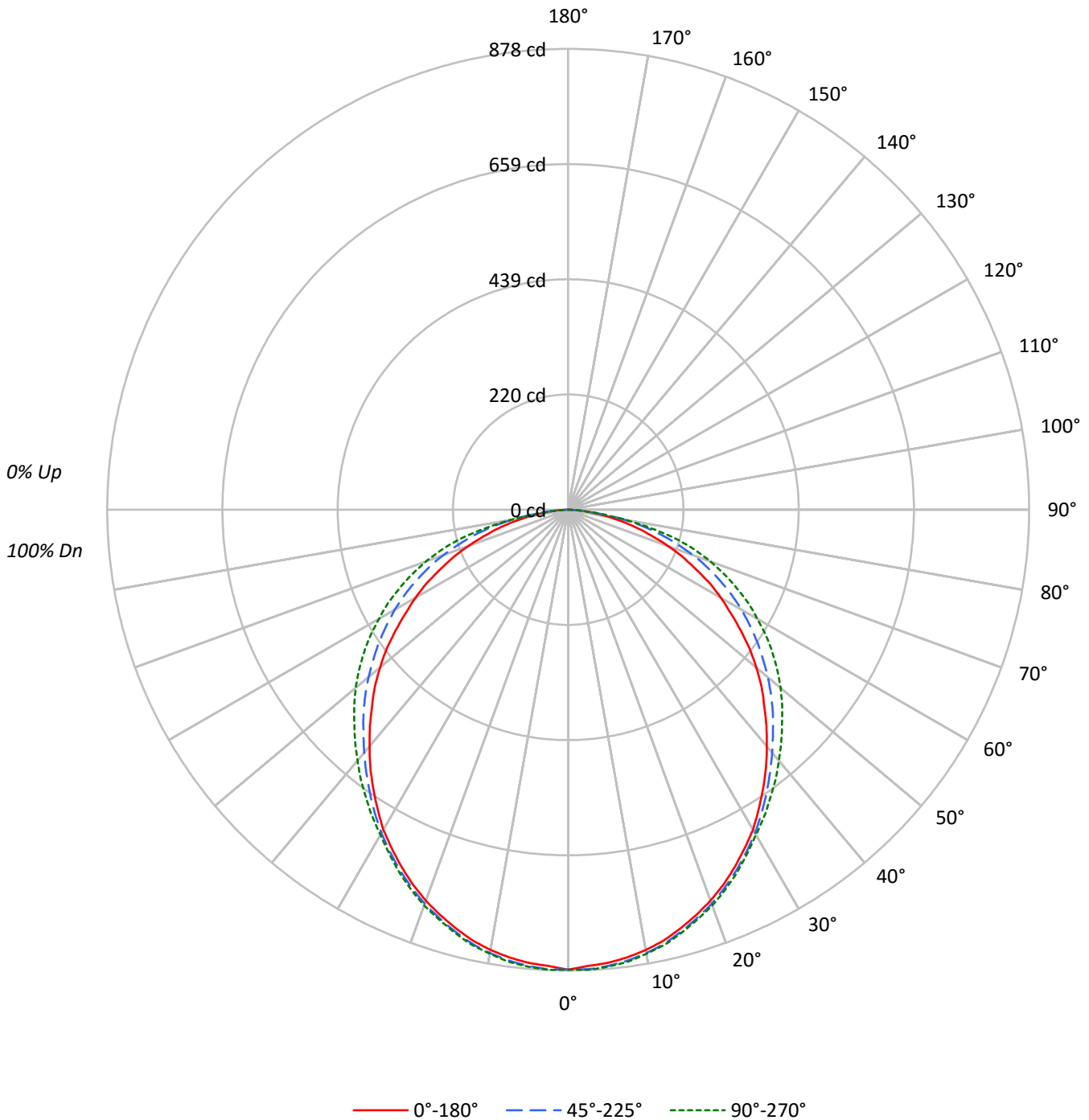
Lumens per Lamp: N/A  
Luminaire Lumens: 2435.7 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	2358	2358	2358
5°	2341	2357	2361
10°	2327	2344	2347
15°	2301	2318	2325
20°	2270	2288	2298
25°	2229	2251	2262
30°	2188	2211	2222
35°	2127	2163	2204
40°	2067	2123	2192
45°	2009	2098	2192
50°	1958	2076	2210
55°	1882	2061	2229
60°	1808	2053	2239
65°	1708	2030	2257
70°	1598	1995	2266
75°	1433	1894	2189
80°	1201	1660	1678
85°	951	951	760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	3.4
10°-20°	234.4	9.6
20°-30°	348.8	14.3
30°-40°	412.5	16.9
40°-50°	426.3	17.5
50°-60°	391.9	16.1
60°-70°	311.7	12.8
70°-80°	186.7	7.7
80°-90°	40.7	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°	665.9	27.3
0°-40°	1078.4	44.3
0°-60°	1896.6	77.9
0°-90°	2435.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	866	869	873	874	874	82
15°	826	828	832	834	834	233
25°	751	753	758	762	762	346
35°	647	651	658	667	671	405
45°	528	533	551	571	576	408
55°	401	410	439	466	475	359
65°	268	284	319	347	354	267
75°	138	156	182	203	210	146
85°	31	33	31	28	25	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	876.3	876.3	876.3	876.3	876.3
2.5°	870.2	872.6	876.3	877.5	877.5
5°	866.5	868.9	872.6	873.9	873.9
7.5°	860.3	862.8	866.5	867.7	868.9
10°	851.7	854.2	857.9	859.1	859.1
12.5°	840.6	841.9	846.8	848.0	849.2
15°	825.9	828.3	832.0	834.5	834.5
17.5°	809.9	812.3	816.0	818.5	818.5
20°	792.6	795.1	798.8	801.2	802.5
22.5°	772.9	775.4	779.1	782.8	782.8
25°	750.8	753.2	758.2	761.9	761.9
27.5°	727.4	729.9	734.8	738.5	738.5
30°	704.0	705.2	711.4	713.9	715.1
32.5°	675.7	679.4	685.5	690.5	694.2
35°	647.4	651.1	658.5	667.1	670.8
37.5°	619.1	622.8	631.4	643.7	648.6
40°	588.3	593.2	604.3	620.3	624.0
42.5°	558.8	564.9	577.2	595.7	600.6
45°	528.0	532.9	551.4	571.1	576.0
47.5°	499.7	503.4	524.3	546.5	552.6
50°	467.7	472.6	496.0	520.6	528.0
52.5°	435.7	441.9	467.7	493.5	502.2
55°	401.2	409.9	439.4	466.5	475.1
57.5°	366.8	379.1	409.9	436.9	446.8
60°	336.0	347.1	381.5	407.4	416.0
62.5°	304.0	316.3	350.8	376.6	387.7
65°	268.3	284.3	318.8	347.1	354.5
67.5°	236.3	252.3	286.8	312.6	322.5
70°	203.1	221.5	253.5	276.9	288.0
72.5°	168.6	188.3	216.6	241.2	252.3
75°	137.8	156.3	182.2	203.1	210.5
77.5°	107.1	124.3	145.2	157.5	160.0
80°	77.5	91.1	107.1	109.5	108.3
82.5°	51.7	61.5	66.5	64.0	64.0
85°	30.8	33.2	30.8	28.3	24.6
87.5°	11.1	9.8	7.4	4.9	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)