

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: P302141

Luminaire Tested: **ZX-WO-29H840-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-29H840-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (294)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

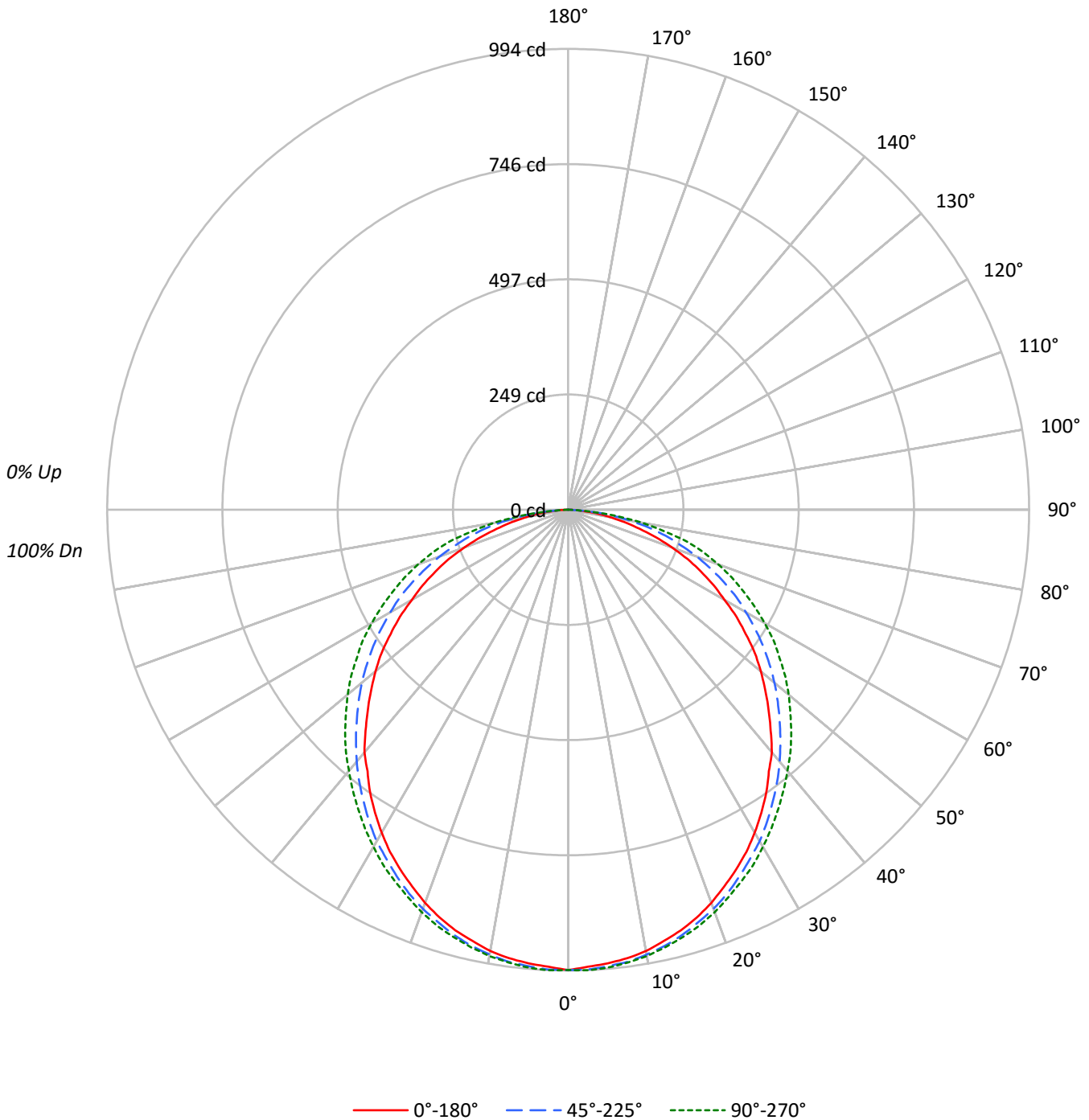
Lumens per Lamp: N/A  
Luminaire Lumens: 2845.8 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.1  
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

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

	0°	45°	90°
0°	2672	2672	2672
5°	2653	2669	2678
10°	2641	2663	2671
15°	2617	2646	2659
20°	2584	2624	2645
25°	2543	2593	2625
30°	2499	2566	2609
35°	2446	2527	2592
40°	2400	2492	2583
45°	2326	2455	2589
50°	2271	2431	2598
55°	2192	2408	2609
60°	2094	2383	2630
65°	2010	2361	2653
70°	1869	2315	2700
75°	1656	2262	2755
80°	1401	2114	2493
85°	994	1467	1420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.8	3.3
10°-20°	267.5	9.4
20°-30°	401.9	14.1
30°-40°	480.8	16.9
40°-50°	498.6	17.5
50°-60°	458.6	16.1
60°-70°	364.0	12.8
70°-80°	224.8	7.9
80°-90°	55.9	2.0
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°	763.2	26.8
0°-40°	1244.0	43.7
0°-60°	2201.2	77.3
0°-90°	2845.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	982	985	988	991	991	93
15°	939	942	950	954	954	265
25°	856	863	873	882	884	395
35°	745	752	769	784	789	466
45°	611	622	645	671	680	472
55°	467	480	513	548	556	418
65°	316	329	371	406	417	312
75°	159	181	218	251	265	170
85°	32	41	48	48	46	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.8	992.8	992.8	992.8	992.8
2.5°	986.7	988.2	992.8	994.3	994.3
5°	982.1	985.1	988.2	991.3	991.3
7.5°	975.9	979.0	983.6	985.1	985.1
10°	966.7	969.8	974.4	977.5	977.5
12.5°	953.0	957.5	963.7	966.7	966.7
15°	939.2	942.2	949.9	954.5	954.5
17.5°	922.3	925.4	933.0	939.2	940.7
20°	902.4	905.5	916.2	922.3	923.8
22.5°	879.4	884.0	896.3	902.4	903.9
25°	856.4	862.6	873.3	882.5	884.0
27.5°	831.9	838.0	848.8	861.0	864.1
30°	804.3	810.5	825.8	836.5	839.6
32.5°	775.2	782.9	798.2	812.0	815.1
35°	744.6	752.2	769.1	784.4	789.0
37.5°	710.9	721.6	740.0	756.8	763.0
40°	683.3	689.4	709.4	729.3	735.4
42.5°	646.5	655.7	677.2	700.2	709.4
45°	611.3	622.0	645.0	671.0	680.2
47.5°	576.1	586.8	612.8	640.4	649.6
50°	542.4	551.5	580.7	611.3	620.5
52.5°	507.1	516.3	547.0	580.7	589.8
55°	467.3	479.5	513.2	548.5	556.1
57.5°	430.5	442.8	478.0	511.7	525.5
60°	389.1	404.5	442.8	476.5	488.7
62.5°	353.9	366.2	409.1	442.8	453.5
65°	315.6	329.4	370.8	406.0	416.7
67.5°	278.8	292.6	332.5	367.7	381.5
70°	237.5	252.8	294.2	329.4	343.2
72.5°	199.2	217.6	254.3	291.1	306.4
75°	159.3	180.8	217.6	251.3	265.0
77.5°	124.1	142.5	177.7	200.7	208.4
80°	90.4	108.8	136.4	151.7	160.9
82.5°	61.3	72.0	93.5	104.2	104.2
85°	32.2	41.4	47.5	47.5	46.0
87.5°	10.7	12.3	9.2	4.6	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)