

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564188

Luminaire Tested: **SQ4-PR1-0U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564188  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-0U-100D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

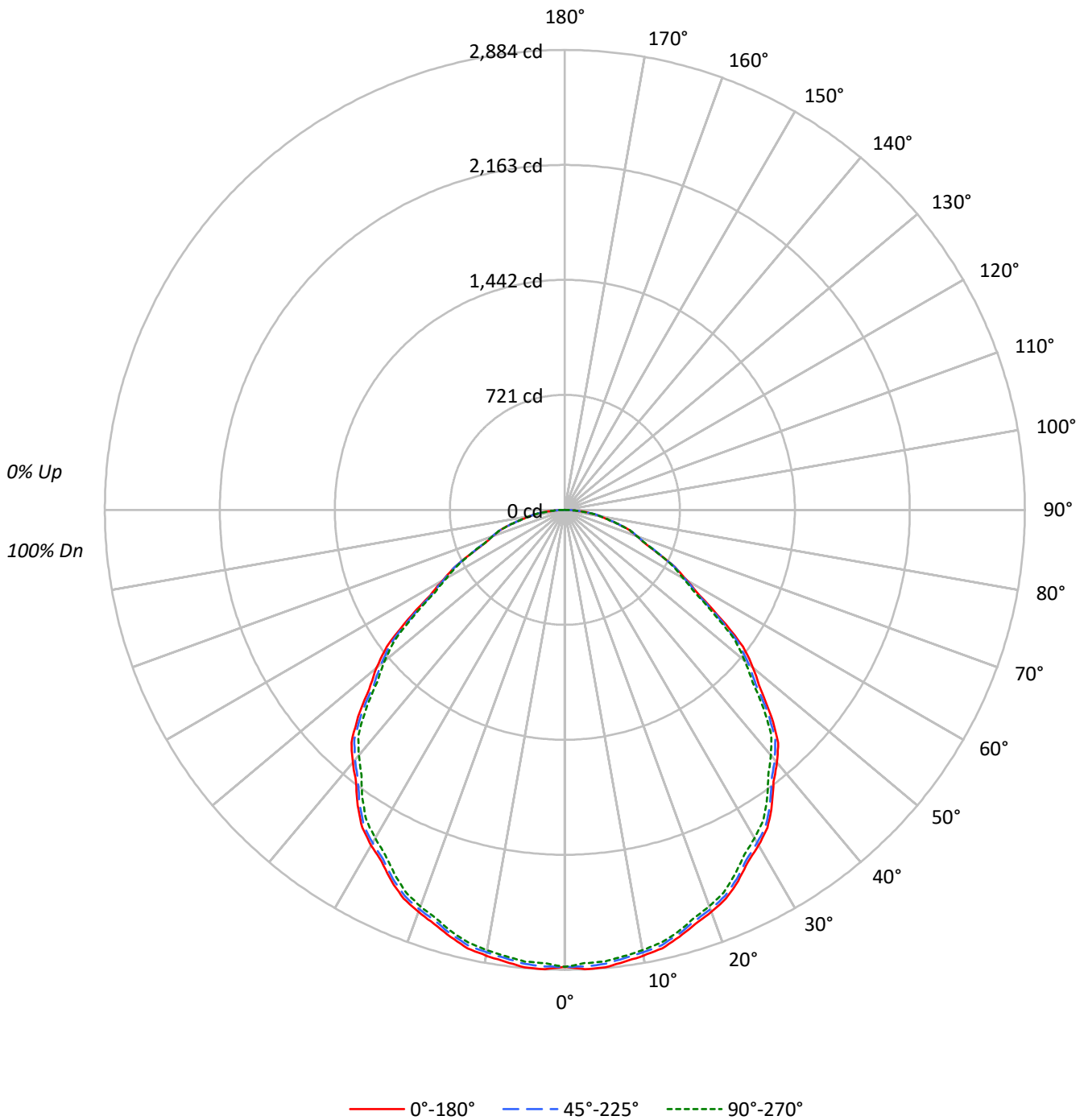
Lumens per Lamp: N/A  
Luminaire Lumens: 7164.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 71.7  
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: 24 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

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

	0°	45°	90°
0°	13220	13220	13220
5°	13339	13236	13167
10°	13297	13204	13135
15°	13238	13156	13085
20°	13172	13087	12990
25°	13079	12991	12840
30°	12938	12846	12662
35°	12747	12636	12455
40°	12456	12322	12099
45°	11949	11739	11498
50°	11054	10788	10576
55°	9648	9430	9231
60°	8130	8062	7902
65°	7032	7059	7006
70°	6459	6492	6492
75°	6203	6203	6247
80°	5837	5900	5837
85°	4705	5224	5224



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.0	3.8
10°-20°	775.3	10.8
20°-30°	1169.5	16.3
30°-40°	1393.4	19.5
40°-50°	1373.8	19.2
50°-60°	1049.9	14.7
60°-70°	649.7	9.1
70°-80°	369.0	5.2
80°-90°	112.3	1.6
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°	2215.8	30.9
0°-40°	3609.2	50.4
0°-60°	6033.0	84.2
0°-90°	7164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2866	2866	2866	2866	2866	
5°	2880	2849	2858	2848	2844	273
15°	2772	2743	2755	2745	2740	782
25°	2570	2538	2552	2525	2523	1182
35°	2264	2237	2244	2214	2212	1413
45°	1832	1807	1799	1767	1762	1403
55°	1200	1180	1172	1153	1148	1075
65°	644	639	647	642	642	653
75°	348	348	348	350	350	368
85°	89	94	99	99	99	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2865.7	2865.7	2865.7	2865.7	2865.7
2.5°	2883.5	2858.4	2865.7	2859.5	2846.0
5°	2880.5	2849.2	2858.3	2848.3	2843.5
7.5°	2858.3	2827.4	2836.6	2826.7	2823.8
10°	2838.6	2809.6	2818.8	2808.8	2804.0
12.5°	2816.8	2786.0	2797.1	2785.1	2780.3
15°	2771.9	2743.0	2754.6	2744.7	2739.8
17.5°	2722.6	2691.7	2703.3	2691.8	2685.5
20°	2683.1	2654.1	2665.8	2648.5	2646.0
22.5°	2639.6	2610.7	2622.3	2599.1	2598.6
25°	2569.5	2538.1	2552.2	2525.0	2522.6
27.5°	2486.1	2457.1	2468.8	2441.1	2438.2
30°	2428.8	2399.9	2411.6	2381.8	2377.0
32.5°	2363.7	2336.6	2346.4	2316.7	2313.8
35°	2263.5	2236.9	2243.7	2214.0	2211.6
37.5°	2149.4	2125.3	2129.2	2096.5	2094.1
40°	2068.5	2044.3	2046.2	2011.6	2009.2
42.5°	1979.6	1955.5	1953.4	1918.8	1916.4
45°	1831.5	1807.4	1799.4	1767.2	1762.4
47.5°	1662.7	1638.5	1623.7	1597.4	1594.0
50°	1540.2	1516.1	1503.2	1480.8	1473.6
52.5°	1407.9	1383.8	1372.9	1352.5	1345.2
55°	1199.6	1180.3	1172.5	1152.6	1147.8
57.5°	1001.6	988.6	986.3	967.0	965.1
60°	881.2	874.0	873.8	856.5	856.5
62.5°	778.5	773.2	777.0	765.6	763.7
65°	644.2	639.4	646.7	641.8	641.8
67.5°	538.1	538.1	542.5	540.6	540.6
70°	478.9	478.9	481.3	481.3	481.3
72.5°	425.5	423.6	430.0	429.9	428.0
75°	348.0	348.0	348.0	350.5	350.5
77.5°	271.0	271.5	273.5	273.0	271.0
80°	219.7	222.1	222.1	219.7	219.7
82.5°	168.3	170.8	170.8	170.3	168.3
85°	88.9	93.7	98.7	98.7	98.7
87.5°	25.7	33.4	39.5	39.4	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)