

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: P562848

Luminaire Tested: **SQ4-PC3-0U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562848  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-0U-100D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

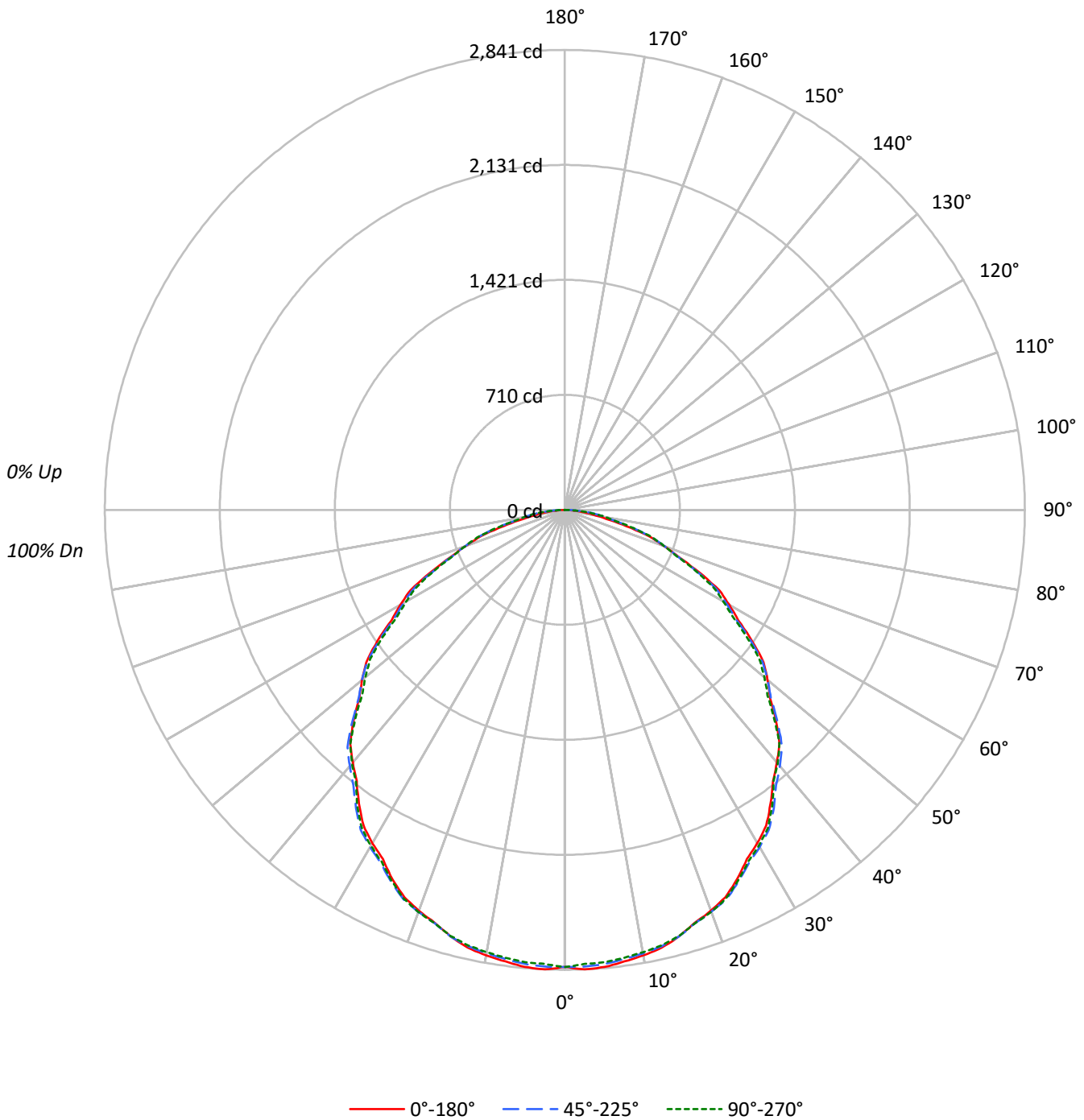
Lumens per Lamp: N/A  
Luminaire Lumens: 7707.9 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	13029	13029	13029
5°	13127	13042	12994
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12911	12872
30°	12662	12815	12760
35°	12473	12665	12577
40°	12267	12441	12315
45°	12044	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10808	10592	10423
65°	9991	9791	9705
70°	8747	8818	8782
75°	7039	7784	7830
80°	5002	6599	6668
85°	3043	5536	5536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.3	3.5
10°-20°	767.0	10.0
20°-30°	1161.6	15.1
30°-40°	1392.6	18.1
40°-50°	1419.9	18.4
50°-60°	1239.5	16.1
60°-70°	887.4	11.5
70°-80°	457.1	5.9
80°-90°	115.6	1.5
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°	2195.9	28.5
0°-40°	3588.5	46.6
0°-60°	6247.9	81.1
0°-90°	7707.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7707.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2835	2807	2816	2808	2806	269
15°	2728	2704	2728	2727	2725	769
25°	2518	2500	2537	2529	2529	1159
35°	2215	2210	2249	2233	2233	1385
45°	1846	1841	1859	1836	1830	1421
55°	1412	1394	1394	1373	1373	1259
65°	915	895	897	889	889	905
75°	395	413	437	439	439	427
85°	58	88	105	107	105	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2824.3	2824.3	2824.3	2824.3	2824.3
2.5°	2841.0	2816.4	2824.3	2817.7	2807.5
5°	2834.7	2806.6	2816.4	2808.5	2806.0
7.5°	2814.3	2786.2	2799.2	2793.9	2791.3
10°	2795.5	2767.4	2782.4	2777.1	2774.6
12.5°	2770.4	2744.3	2761.5	2756.3	2755.7
15°	2727.5	2704.5	2727.5	2727.4	2724.9
17.5°	2673.6	2652.7	2677.3	2678.8	2677.3
20°	2636.0	2613.0	2643.8	2641.3	2643.8
22.5°	2589.9	2571.0	2604.1	2597.3	2599.9
25°	2518.3	2500.4	2536.6	2528.8	2528.8
27.5°	2433.6	2420.8	2460.2	2451.9	2451.9
30°	2377.1	2364.3	2405.8	2395.4	2395.4
32.5°	2314.3	2305.6	2345.2	2332.6	2332.6
35°	2214.9	2209.8	2248.9	2233.3	2233.3
37.5°	2112.4	2107.8	2143.3	2124.3	2118.2
40°	2037.1	2034.6	2065.9	2045.0	2045.0
42.5°	1961.8	1959.3	1986.4	1961.3	1961.3
45°	1846.2	1841.1	1859.3	1835.7	1830.5
47.5°	1720.2	1715.1	1726.5	1700.8	1698.2
50°	1634.4	1629.3	1634.4	1610.8	1608.3
52.5°	1546.5	1537.3	1538.2	1514.6	1514.1
55°	1412.1	1394.2	1393.8	1372.9	1372.9
57.5°	1269.9	1246.3	1248.4	1230.6	1228.0
60°	1171.5	1146.0	1148.0	1132.3	1129.7
62.5°	1075.3	1045.6	1051.8	1034.0	1033.5
65°	915.3	894.8	897.0	889.1	889.1
67.5°	761.5	742.6	756.3	750.0	749.5
70°	648.5	635.7	653.8	653.7	651.1
72.5°	543.9	543.4	565.9	565.9	567.5
75°	394.9	412.8	436.7	439.3	439.3
77.5°	263.6	295.3	321.7	322.7	322.2
80°	188.3	224.1	248.4	253.6	251.0
82.5°	127.6	165.5	185.7	190.8	188.3
85°	57.5	88.2	104.6	107.2	104.6
87.5°	16.7	35.1	41.8	41.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)