

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: P563536

Luminaire Tested: **SQ4-PP3-0U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563536  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-100D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

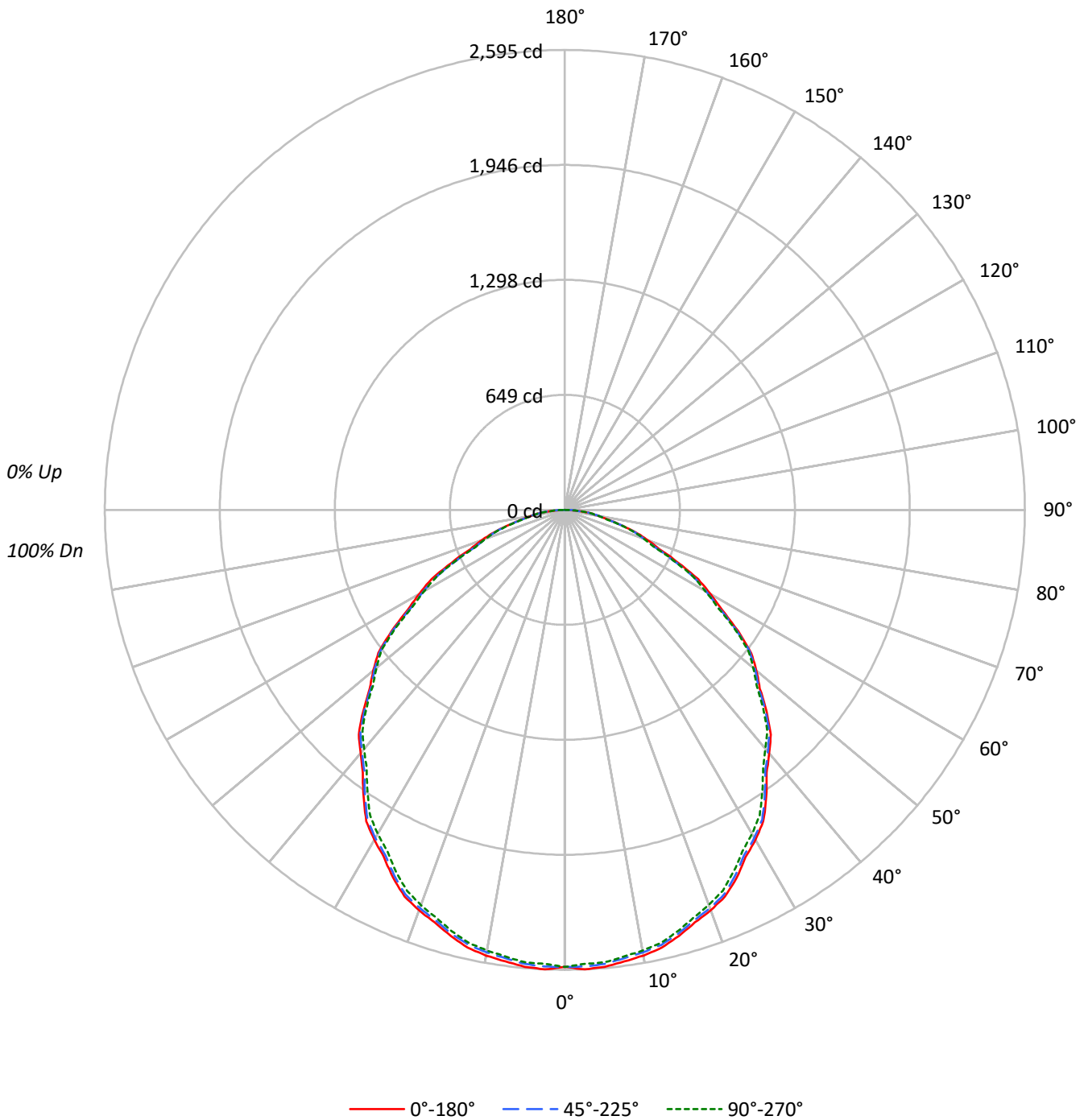
Lumens per Lamp: N/A  
Luminaire Lumens: 6600.3 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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

	0°	45°	90°
0°	11896	11896	11896
5°	11983	11910	11869
10°	11963	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11245
35°	11150	11073	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10121	10057	9959
55°	9597	9470	9398
60°	8737	8487	8446
65°	7698	7377	7352
70°	6645	6372	6372
75°	5720	5639	5559
80°	5045	5103	4984
85°	3949	4308	4308



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.8	3.7
10°-20°	696.3	10.5
20°-30°	1042.9	15.8
30°-40°	1223.3	18.5
40°-50°	1227.1	18.6
50°-60°	1046.8	15.9
60°-70°	682.7	10.3
70°-80°	342.5	5.2
80°-90°	94.8	1.4
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°	1983.0	30.0
0°-40°	3206.4	48.6
0°-60°	5480.3	83.0
0°-90°	6600.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6600.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2588	2564	2572	2563	2563	246
15°	2488	2464	2475	2466	2461	702
25°	2292	2265	2276	2256	2253	1054
35°	1980	1960	1966	1944	1941	1237
45°	1609	1598	1598	1582	1582	1239
55°	1193	1189	1178	1171	1168	1061
65°	705	692	676	671	674	704
75°	321	321	316	314	312	348
85°	75	81	81	81	81	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2578.8	2578.8	2578.8	2578.8	2578.8
2.5°	2595.1	2573.9	2578.8	2574.9	2564.3
5°	2587.8	2563.5	2572.0	2563.0	2563.0
7.5°	2570.2	2543.7	2552.1	2543.1	2542.6
10°	2553.9	2527.4	2535.9	2526.8	2524.6
12.5°	2530.4	2503.9	2514.2	2503.3	2502.9
15°	2488.4	2464.1	2474.8	2465.7	2461.3
17.5°	2440.9	2414.4	2427.4	2414.7	2412.9
20°	2404.8	2378.3	2391.2	2373.1	2373.1
22.5°	2361.4	2334.9	2349.6	2326.1	2326.1
25°	2291.8	2265.2	2275.9	2255.6	2253.3
27.5°	2209.0	2183.0	2194.1	2171.1	2170.6
30°	2149.4	2125.1	2138.1	2113.2	2111.0
32.5°	2084.3	2061.7	2071.2	2046.3	2044.1
35°	1979.9	1960.0	1966.3	1943.7	1941.4
37.5°	1870.0	1849.7	1856.9	1837.5	1836.6
40°	1792.3	1779.0	1781.0	1765.1	1760.6
42.5°	1720.0	1704.9	1706.8	1691.0	1690.1
45°	1609.2	1598.2	1597.9	1582.1	1582.1
47.5°	1491.7	1483.3	1480.8	1467.7	1467.3
50°	1410.3	1403.7	1401.3	1389.9	1387.7
52.5°	1325.3	1322.2	1314.5	1305.0	1304.5
55°	1193.3	1188.9	1177.5	1170.7	1168.5
57.5°	1050.1	1041.2	1028.4	1018.5	1020.2
60°	947.0	938.2	919.9	915.4	915.4
62.5°	847.5	836.9	818.6	812.4	815.9
65°	705.2	691.9	675.8	671.3	673.5
67.5°	575.9	563.9	546.5	546.5	544.7
70°	492.7	486.1	472.4	472.4	472.4
72.5°	418.6	415.5	405.5	405.4	403.7
75°	320.9	320.9	316.4	314.1	311.9
77.5°	240.5	241.4	239.1	236.8	232.8
80°	189.9	194.3	192.1	189.8	187.6
82.5°	142.8	147.3	146.9	142.8	142.4
85°	74.6	81.2	81.4	81.4	81.4
87.5°	19.9	27.0	28.9	29.0	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)