

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: P563535

Luminaire Tested: **SQ4-PP3-0U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563535  
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-6  
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**

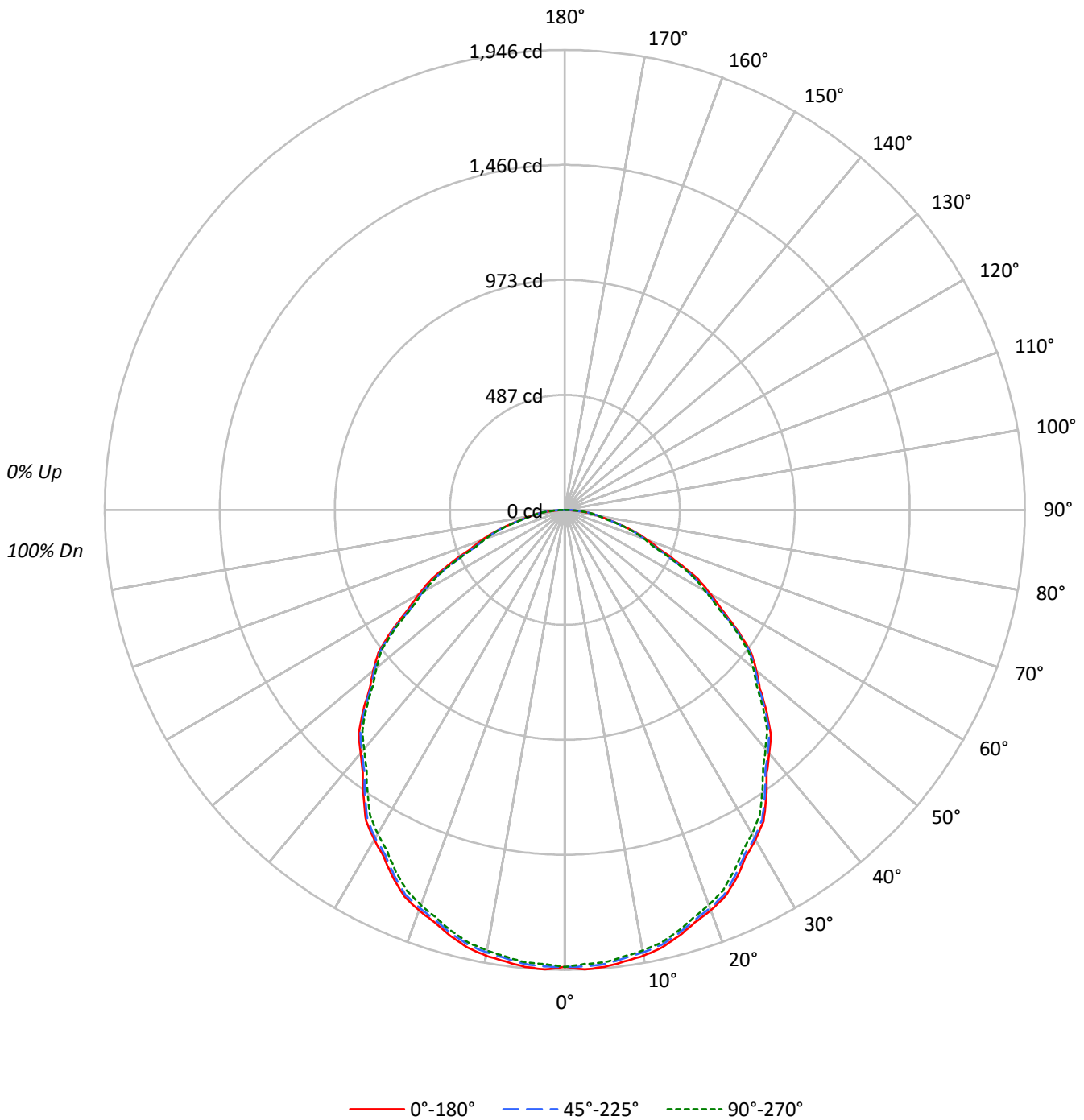
Lumens per Lamp: N/A  
Luminaire Lumens: 4950.2 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.3  
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°	11984	11910	11868
10°	11964	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11585	11469
30°	11449	11389	11244
35°	11150	11073	10933
40°	10793	10725	10603
45°	10498	10424	10322
50°	10121	10057	9959
55°	9598	9470	9398
60°	8737	8487	8445
65°	7698	7376	7351
70°	6645	6372	6372
75°	5720	5639	5559
80°	5044	5104	4984
85°	3945	4305	4305



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.9	3.7
10°-20°	522.2	10.5
20°-30°	782.2	15.8
30°-40°	917.5	18.5
40°-50°	920.3	18.6
50°-60°	785.1	15.9
60°-70°	512.0	10.3
70°-80°	256.9	5.2
80°-90°	71.1	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°	1487.3	30.0
0°-40°	2404.8	48.6
0°-60°	4110.2	83.0
0°-90°	4950.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4950.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1941	1923	1929	1922	1922	184
15°	1866	1848	1856	1849	1846	527
25°	1719	1699	1707	1692	1690	790
35°	1485	1470	1475	1458	1456	928
45°	1207	1199	1198	1187	1187	929
55°	895	892	883	878	876	795
65°	529	519	507	504	505	528
75°	241	241	237	236	234	261
85°	56	61	61	61	61	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1934.1	1934.1	1934.1	1934.1	1934.1
2.5°	1946.3	1930.4	1934.1	1931.2	1923.3
5°	1940.9	1922.7	1929.0	1922.2	1922.2
7.5°	1927.7	1907.8	1914.1	1907.3	1907.0
10°	1915.5	1895.6	1901.9	1895.1	1893.4
12.5°	1897.8	1877.9	1885.6	1877.5	1877.1
15°	1866.3	1848.1	1856.1	1849.3	1846.0
17.5°	1830.7	1810.8	1820.5	1811.0	1809.7
20°	1803.6	1783.7	1793.4	1779.8	1779.8
22.5°	1771.0	1751.1	1762.2	1744.6	1744.6
25°	1718.8	1698.9	1707.0	1691.7	1690.0
27.5°	1656.8	1637.2	1645.6	1628.3	1628.0
30°	1612.0	1593.8	1603.6	1584.9	1583.2
32.5°	1563.2	1546.3	1553.4	1534.7	1533.0
35°	1484.9	1470.0	1474.7	1457.7	1456.1
37.5°	1402.5	1387.3	1392.7	1378.1	1377.4
40°	1344.2	1334.3	1335.7	1323.8	1320.5
42.5°	1290.0	1278.7	1280.1	1268.3	1267.6
45°	1206.9	1198.6	1198.4	1186.6	1186.6
47.5°	1118.8	1112.5	1110.6	1100.8	1100.5
50°	1057.7	1052.8	1051.0	1042.4	1040.8
52.5°	994.0	991.7	985.9	978.7	978.4
55°	895.0	891.7	883.1	878.0	876.4
57.5°	787.5	780.9	771.3	763.8	765.2
60°	710.2	703.6	689.9	686.5	686.5
62.5°	635.7	627.7	614.0	609.3	611.9
65°	528.9	518.9	506.8	503.5	505.1
67.5°	431.9	423.0	409.9	409.8	408.5
70°	369.5	364.6	354.3	354.3	354.3
72.5°	313.9	311.6	304.1	304.1	302.7
75°	240.7	240.7	237.3	235.6	233.9
77.5°	180.4	181.0	179.3	177.6	174.6
80°	142.4	145.7	144.1	142.4	140.7
82.5°	107.1	110.4	110.2	107.1	106.8
85°	55.9	60.9	61.0	61.0	61.0
87.5°	14.9	20.2	21.7	21.7	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)