

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: P563542

Luminaire Tested: **SQ4-PP3-0U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563542  
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-125D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

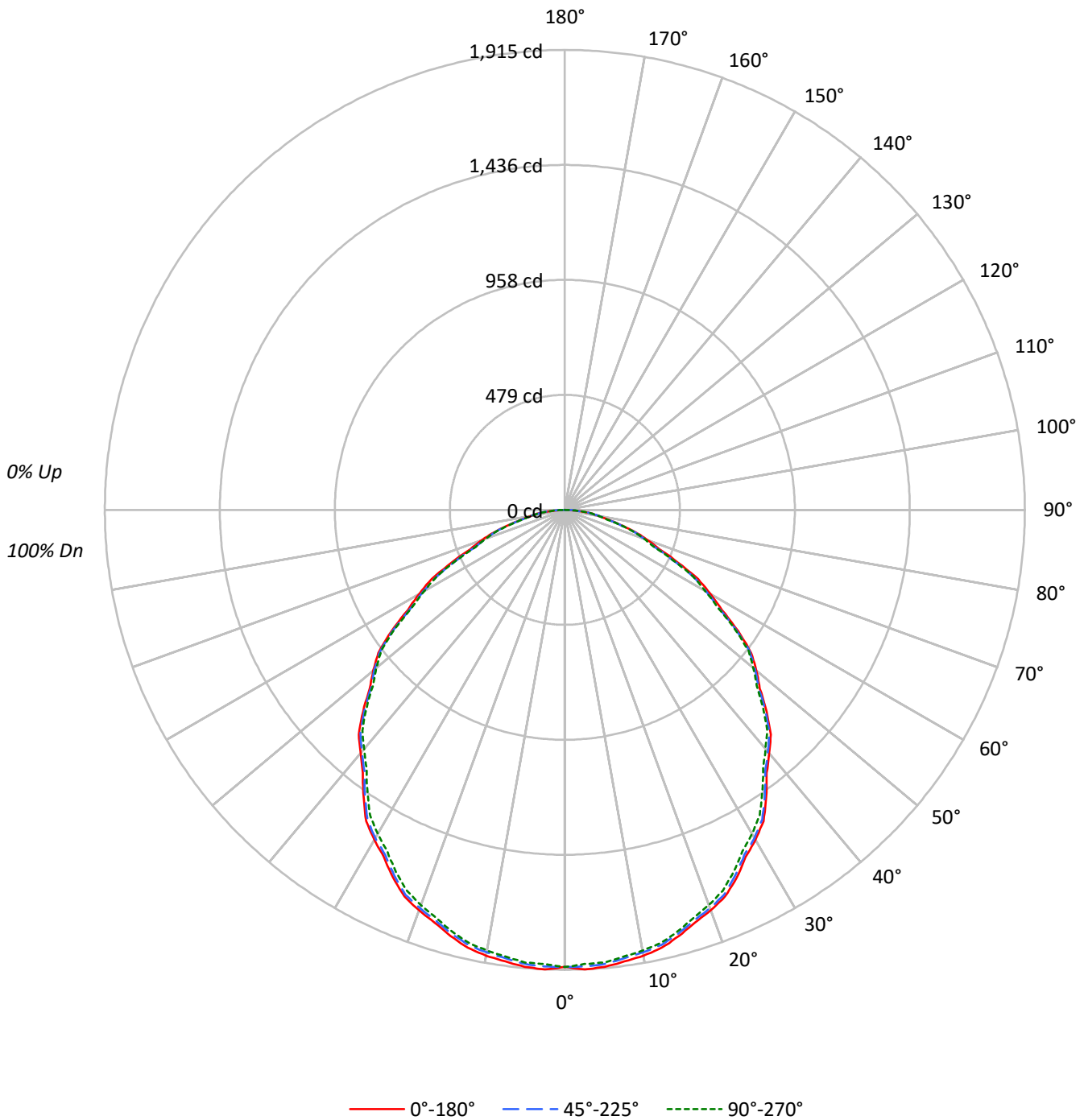
Lumens per Lamp: N/A  
Luminaire Lumens: 4871.6 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.6  
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				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

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

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17544	17448	17353
20°	17427	17328	17198
25°	17219	17101	16931
30°	16901	16812	16599
35°	16459	16346	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14940	14846	14702
55°	14168	13980	13874
60°	12898	12529	12466
65°	11363	10889	10852
70°	9811	9406	9406
75°	8445	8324	8206
80°	7444	7534	7359
85°	5833	6362	6362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	3.7
10°-20°	513.9	10.5
20°-30°	769.8	15.8
30°-40°	902.9	18.5
40°-50°	905.7	18.6
50°-60°	772.7	15.9
60°-70°	503.9	10.3
70°-80°	252.8	5.2
80°-90°	70.0	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°	1463.7	30.0
0°-40°	2366.6	48.6
0°-60°	4045.0	83.0
0°-90°	4871.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4871.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1910	1892	1898	1892	1892	181
15°	1837	1819	1827	1820	1817	518
25°	1692	1672	1680	1665	1663	778
35°	1461	1447	1451	1435	1433	913
45°	1188	1180	1179	1168	1168	915
55°	881	878	869	864	862	783
65°	520	511	499	496	497	519
75°	237	237	234	232	230	257
85°	55	60	60	60	60	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1915.4	1899.7	1903.4	1900.5	1892.7
5°	1910.1	1892.1	1898.4	1891.7	1891.7
7.5°	1897.1	1877.5	1883.7	1877.0	1876.7
10°	1885.0	1865.5	1871.7	1865.0	1863.4
12.5°	1867.7	1848.1	1855.7	1847.7	1847.3
15°	1836.7	1818.7	1826.7	1819.9	1816.7
17.5°	1801.6	1782.1	1791.6	1782.3	1781.0
20°	1774.9	1755.4	1764.9	1751.6	1751.6
22.5°	1742.9	1723.3	1734.2	1716.9	1716.9
25°	1691.5	1672.0	1679.9	1664.8	1663.2
27.5°	1630.5	1611.2	1619.5	1602.4	1602.1
30°	1586.4	1568.5	1578.1	1559.7	1558.1
32.5°	1538.4	1521.8	1528.7	1510.3	1508.7
35°	1461.3	1446.6	1451.3	1434.6	1433.0
37.5°	1380.3	1365.2	1370.6	1356.2	1355.6
40°	1322.9	1313.1	1314.5	1302.8	1299.5
42.5°	1269.5	1258.4	1259.8	1248.1	1247.5
45°	1187.7	1179.6	1179.4	1167.7	1167.7
47.5°	1101.0	1094.8	1093.0	1083.3	1083.0
50°	1040.9	1036.1	1034.3	1025.9	1024.3
52.5°	978.2	975.9	970.2	963.2	962.9
55°	880.8	877.5	869.1	864.1	862.5
57.5°	775.0	768.5	759.0	751.7	753.0
60°	699.0	692.4	679.0	675.6	675.6
62.5°	625.6	617.7	604.2	599.6	602.2
65°	520.5	510.7	498.8	495.5	497.1
67.5°	425.1	416.2	403.4	403.3	402.0
70°	363.7	358.8	348.7	348.7	348.7
72.5°	308.9	306.7	299.3	299.2	297.9
75°	236.9	236.9	233.5	231.8	230.2
77.5°	177.5	178.1	176.5	174.8	171.8
80°	140.1	143.4	141.8	140.1	138.5
82.5°	105.4	108.7	108.4	105.4	105.1
85°	55.1	59.9	60.1	60.1	60.1
87.5°	14.7	19.9	21.4	21.4	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)