

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: P563247

Luminaire Tested: **SQ4-PP3-025U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563247  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

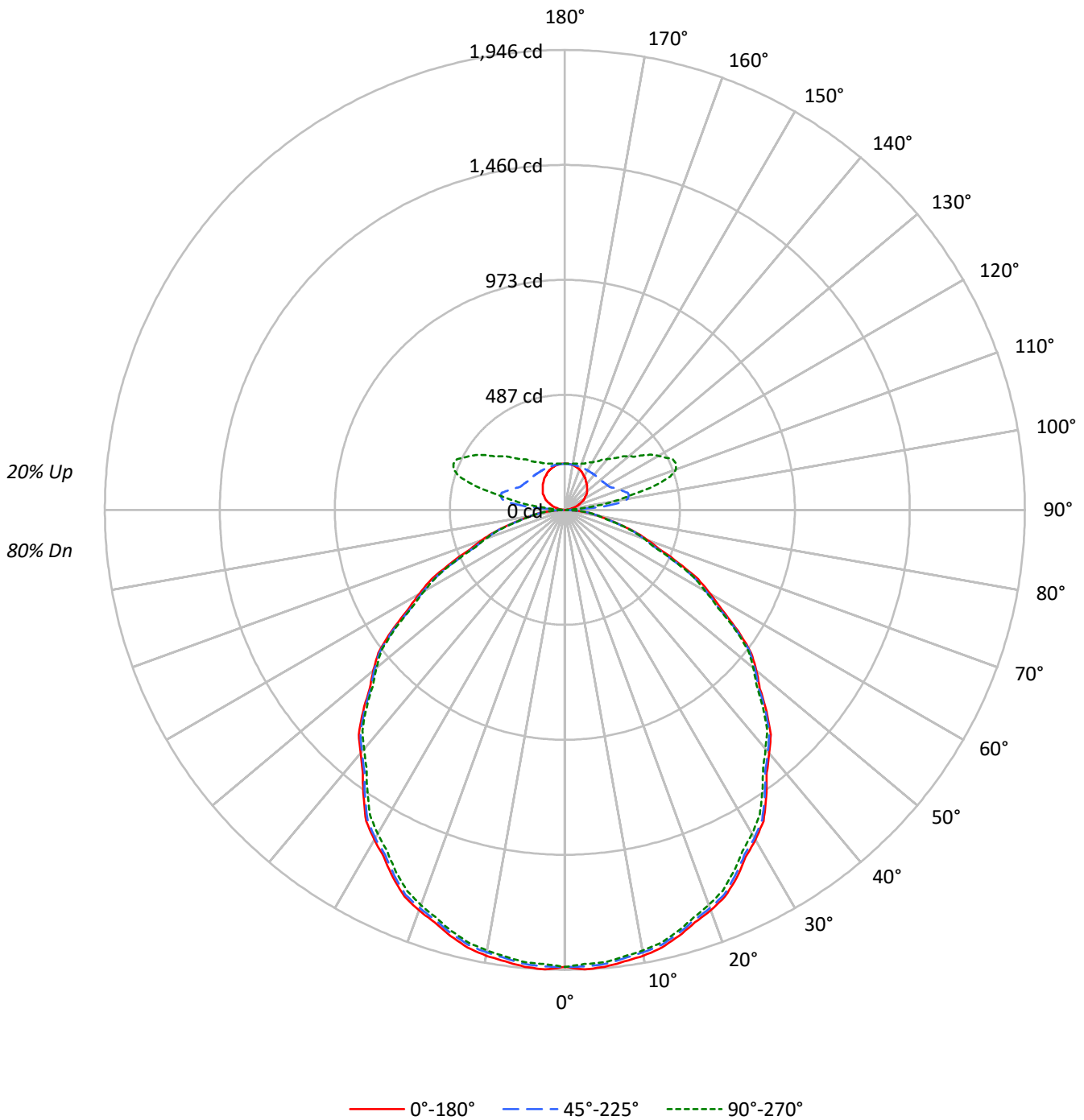
Lumens per Lamp: N/A  
Luminaire Lumens: 6216.4 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 63.5  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	89	88	85	83	81	79	77	74	73	71	68
2	96	88	82	76	91	84	79	74	78	73	69	71	68	65	66	63	60	57
3	87	78	70	64	83	75	68	62	69	63	59	63	59	55	58	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	36
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	34	32
7	63	50	42	36	60	49	41	35	45	39	34	42	36	32	39	34	31	28
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	25
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	28	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

**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	2.9
10°-20°	522.2	8.4
20°-30°	782.2	12.6
30°-40°	917.5	14.8
40°-50°	920.3	14.8
50°-60°	785.1	12.6
60°-70°	512.0	8.2
70°-80°	256.9	4.1
80°-90°	72.1	1.2
90°-100°	95.1	1.5
100°-110°	250.1	4.0
110°-120°	259.3	4.2
120°-130°	208.0	3.3
130°-140°	163.2	2.6
140°-150°	125.3	2.0
150°-160°	90.2	1.5
160°-170°	55.2	0.9
170°-180°	18.6	0.3
0°-30°	1487.3	23.9
0°-40°	2404.8	38.7
0°-60°	4110.2	66.1
0°-90°	4951.3	79.6
90°-120°	604.6	9.7
90°-150°	1101.1	17.7
90°-180°	1265.0	20.3
0°-180°	6216.4	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	66
90°	1	4	10	5	5	3
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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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°	15.2	21.0	23.7	22.7	24.1
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

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