

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: P563224

Luminaire Tested: **SQ4-PP3-025U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563224  
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-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

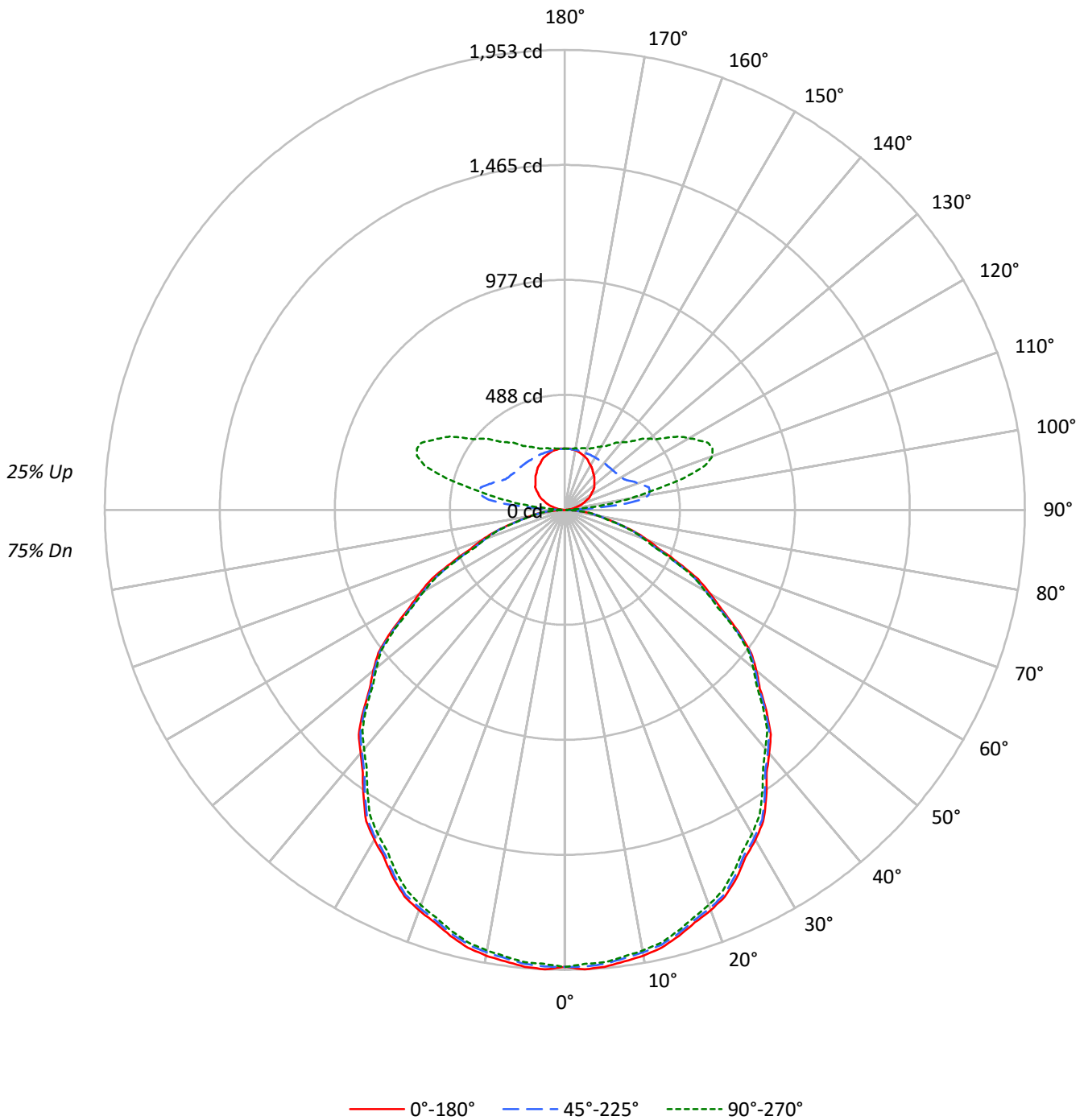
Lumens per Lamp: N/A  
Luminaire Lumens: 6655.7 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.9  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64		
2	95	87	81	76	90	83	77	73	75	71	67	69	65	62	62	59	57	54		
3	86	77	69	63	82	73	67	61	67	61	57	61	56	53	55	52	49	46		
4	79	68	60	54	75	65	58	52	60	53	49	54	49	45	49	45	42	39		
5	73	61	53	46	69	58	51	45	53	47	42	49	44	39	45	40	37	34		
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30		
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	27		
8	58	45	37	32	55	43	36	31	40	34	29	37	32	28	34	29	26	24		
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	22		
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20		

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

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6387	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4304	4244	4183
80°	3796	3841	3751
85°	2969	3239	3239



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.5	2.8
10°-20°	524.0	7.9
20°-30°	784.9	11.8
30°-40°	920.7	13.8
40°-50°	923.5	13.9
50°-60°	787.9	11.8
60°-70°	513.8	7.7
70°-80°	257.8	3.9
80°-90°	72.7	1.1
90°-100°	126.8	1.9
100°-110°	333.5	5.0
110°-120°	345.8	5.2
120°-130°	277.3	4.2
130°-140°	217.6	3.3
140°-150°	167.0	2.5
150°-160°	120.3	1.8
160°-170°	73.6	1.1
170°-180°	24.9	0.4
0°-30°	1492.5	22.4
0°-40°	2413.1	36.3
0°-60°	4124.5	62.0
0°-90°	4968.9	74.7
90°-120°	806.1	12.1
90°-150°	1468.1	22.1
90°-180°	1687.0	25.3
0°-180°	6655.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1948	1929	1936	1929	1929	185
15°	1873	1854	1863	1856	1852	528
25°	1725	1705	1713	1698	1696	793
35°	1490	1475	1480	1463	1461	931
45°	1211	1203	1203	1191	1191	933
55°	898	895	886	881	879	798
65°	531	521	509	505	507	530
75°	242	242	238	236	235	262
85°	56	61	61	61	61	66
90°	2	5	13	7	7	4
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1953.1	1937.1	1940.8	1937.9	1930.0
5°	1947.6	1929.4	1935.7	1928.9	1928.9
7.5°	1934.4	1914.4	1920.8	1914.0	1913.6
10°	1922.1	1902.2	1908.5	1901.7	1900.0
12.5°	1904.4	1884.5	1892.2	1884.0	1883.7
15°	1872.8	1854.5	1862.6	1855.7	1852.4
17.5°	1837.1	1817.1	1826.9	1817.3	1816.0
20°	1809.9	1789.9	1799.7	1786.1	1786.1
22.5°	1777.2	1757.2	1768.4	1750.7	1750.7
25°	1724.8	1704.9	1712.9	1697.6	1695.9
27.5°	1662.6	1642.9	1651.3	1634.0	1633.6
30°	1617.7	1599.4	1609.1	1590.4	1588.7
32.5°	1568.7	1551.7	1558.8	1540.0	1538.4
35°	1490.1	1475.1	1479.9	1462.8	1461.2
37.5°	1407.4	1392.1	1397.5	1382.9	1382.2
40°	1348.9	1338.9	1340.4	1328.4	1325.1
42.5°	1294.5	1283.2	1284.6	1272.7	1272.0
45°	1211.1	1202.8	1202.6	1190.7	1190.7
47.5°	1122.7	1116.3	1114.5	1104.6	1104.3
50°	1061.4	1056.4	1054.6	1046.1	1044.4
52.5°	997.5	995.1	989.3	982.2	981.8
55°	898.1	894.8	886.2	881.1	879.4
57.5°	790.3	783.6	774.0	766.5	767.8
60°	712.7	706.1	692.3	688.9	688.9
62.5°	637.9	629.9	616.1	611.4	614.1
65°	530.7	520.7	508.6	505.2	506.9
67.5°	433.4	424.4	411.3	411.3	409.9
70°	370.8	365.8	355.5	355.5	355.5
72.5°	315.0	312.7	305.2	305.1	303.8
75°	241.5	241.5	238.1	236.4	234.7
77.5°	181.0	181.7	180.0	178.2	175.2
80°	142.9	146.2	144.6	142.8	141.2
82.5°	107.5	110.8	110.6	107.5	107.2
85°	56.1	61.1	61.2	61.2	61.2
87.5°	15.3	21.3	24.4	23.1	24.5
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)