

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: P519873

Luminaire Tested: **SQ4-F-025U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519873  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-025U-125D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

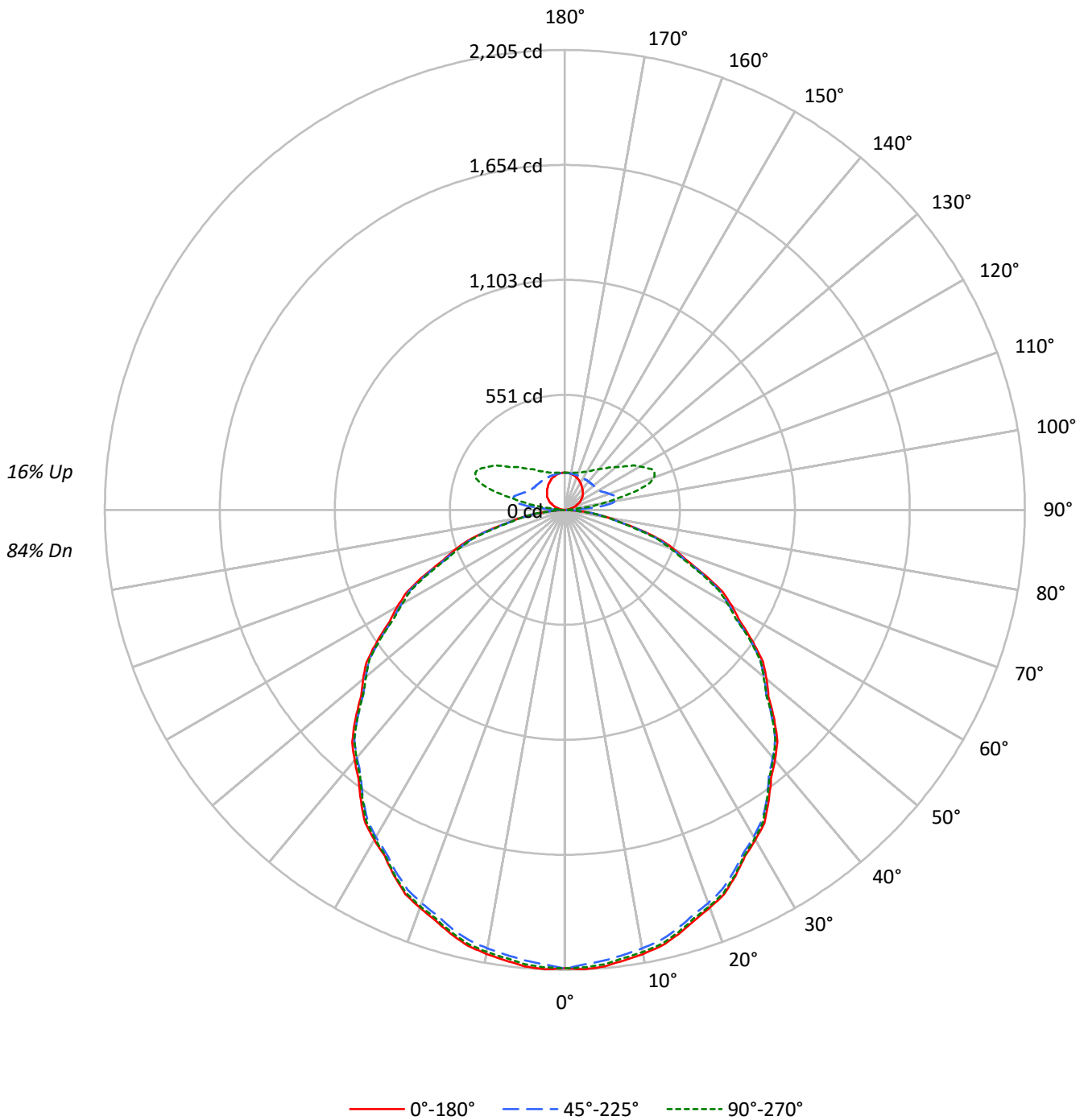
Lumens per Lamp: N/A  
Luminaire Lumens: 7151.0 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 73.8  
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			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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21

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

	0°	45°	90°
0°	13520	13520	13520
5°	13564	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13287	13137	13240
25°	13136	12996	13104
30°	12975	12863	12931
35°	12790	12681	12690
40°	12580	12443	12482
45°	12343	12207	12228
50°	12074	11934	11901
55°	11766	11598	11572
60°	11384	11132	11073
65°	10793	10565	10424
70°	10053	9790	9661
75°	8940	8741	8482
80°	7283	7070	7028
85°	4354	4947	4947



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.4	2.9
10°-20°	590.7	8.3
20°-30°	887.4	12.4
30°-40°	1058.9	14.8
40°-50°	1085.4	15.2
50°-60°	967.4	13.5
60°-70°	720.2	10.1
70°-80°	390.2	5.5
80°-90°	90.5	1.3
90°-100°	86.7	1.2
100°-110°	227.9	3.2
110°-120°	236.3	3.3
120°-130°	189.6	2.7
130°-140°	148.7	2.1
140°-150°	114.2	1.6
150°-160°	82.2	1.1
160°-170°	50.3	0.7
170°-180°	17.0	0.2
0°-30°	1685.5	23.6
0°-40°	2744.4	38.4
0°-60°	4797.2	67.1
0°-90°	5998.1	83.9
90°-120°	550.9	7.7
90°-150°	1003.4	14.0
90°-180°	1153.0	16.1
0°-180°	7151.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2197	2193	2169	2188	2187	208
15°	2106	2101	2081	2099	2098	594
25°	1936	1932	1915	1926	1931	891
35°	1703	1702	1689	1689	1690	1065
45°	1419	1416	1403	1401	1406	1093
55°	1097	1094	1082	1073	1079	980
65°	742	737	726	721	716	734
75°	376	376	368	360	357	400
85°	62	70	70	71	70	85
90°	1	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	44
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2198.1	2198.1	2198.1	2198.1	2198.1
2.5°	2204.9	2201.2	2181.7	2198.1	2195.3
5°	2196.9	2193.4	2169.1	2188.5	2187.3
7.5°	2178.4	2173.8	2151.7	2169.7	2167.6
10°	2161.8	2158.3	2135.3	2153.3	2152.2
12.5°	2141.6	2138.0	2114.9	2133.0	2132.8
15°	2106.2	2101.4	2080.8	2098.9	2097.8
17.5°	2063.8	2058.5	2038.0	2052.3	2054.7
20°	2030.0	2026.4	2007.0	2020.3	2022.8
22.5°	1995.1	1990.7	1970.2	1985.5	1987.9
25°	1935.6	1932.1	1915.0	1926.1	1930.8
27.5°	1870.3	1870.3	1854.5	1862.3	1865.2
30°	1826.8	1826.8	1811.1	1815.9	1820.7
32.5°	1780.2	1776.5	1761.7	1765.6	1770.4
35°	1703.3	1702.2	1688.8	1688.8	1690.0
37.5°	1623.8	1620.4	1605.8	1606.9	1612.6
40°	1566.7	1564.3	1549.7	1549.8	1554.5
42.5°	1508.6	1506.2	1493.6	1491.7	1493.6
45°	1419.0	1415.5	1403.3	1401.0	1405.7
47.5°	1323.8	1324.7	1310.2	1306.8	1309.5
50°	1261.8	1261.8	1247.2	1240.1	1243.7
52.5°	1197.0	1195.0	1180.4	1172.4	1180.7
55°	1097.2	1093.7	1081.5	1073.2	1079.1
57.5°	995.2	989.7	977.5	968.4	971.7
60°	925.4	917.2	904.9	897.7	900.1
62.5°	852.9	848.4	835.2	824.2	829.5
65°	741.6	736.8	725.9	720.9	716.2
67.5°	632.4	629.4	617.0	611.9	608.7
70°	559.0	553.0	544.4	538.3	537.2
72.5°	487.3	480.4	471.8	466.6	463.6
75°	376.2	376.2	367.8	360.4	356.9
77.5°	270.5	271.4	264.4	262.0	260.4
80°	205.6	205.6	199.6	197.2	198.4
82.5°	143.7	146.6	144.4	141.0	139.4
85°	61.7	69.9	70.1	71.4	70.1
87.5°	10.8	17.9	20.4	17.3	15.5
90°	1.1	3.3	9.1	4.6	4.6
92.5°	4.8	23.0	51.0	22.7	14.6
95°	11.4	44.8	149.4	76.9	52.5
97.5°	19.9	49.2	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.8	263.1
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.7	70.3	237.6	419.7	426.0
110°	57.0	74.8	225.8	429.4	456.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.4	214.8	423.3	464.4
115°	72.9	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.0	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.6	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.0	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.8	133.2	177.9	250.4	283.9
137.5°	126.6	138.6	177.7	239.0	266.4
140°	131.1	142.2	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.2	149.2	175.6	213.6	230.4
147.5°	145.8	154.5	175.6	205.6	219.4
150°	149.4	157.1	175.6	200.9	212.1
152.5°	153.0	159.1	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.4	168.7	175.6	187.1	189.3
162.5°	168.0	170.5	175.6	185.2	187.4
165°	171.0	173.3	175.6	182.5	184.8
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	176.9	178.7	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)