

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: P562760

Luminaire Tested: **SQ4-PC3-075U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562760  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

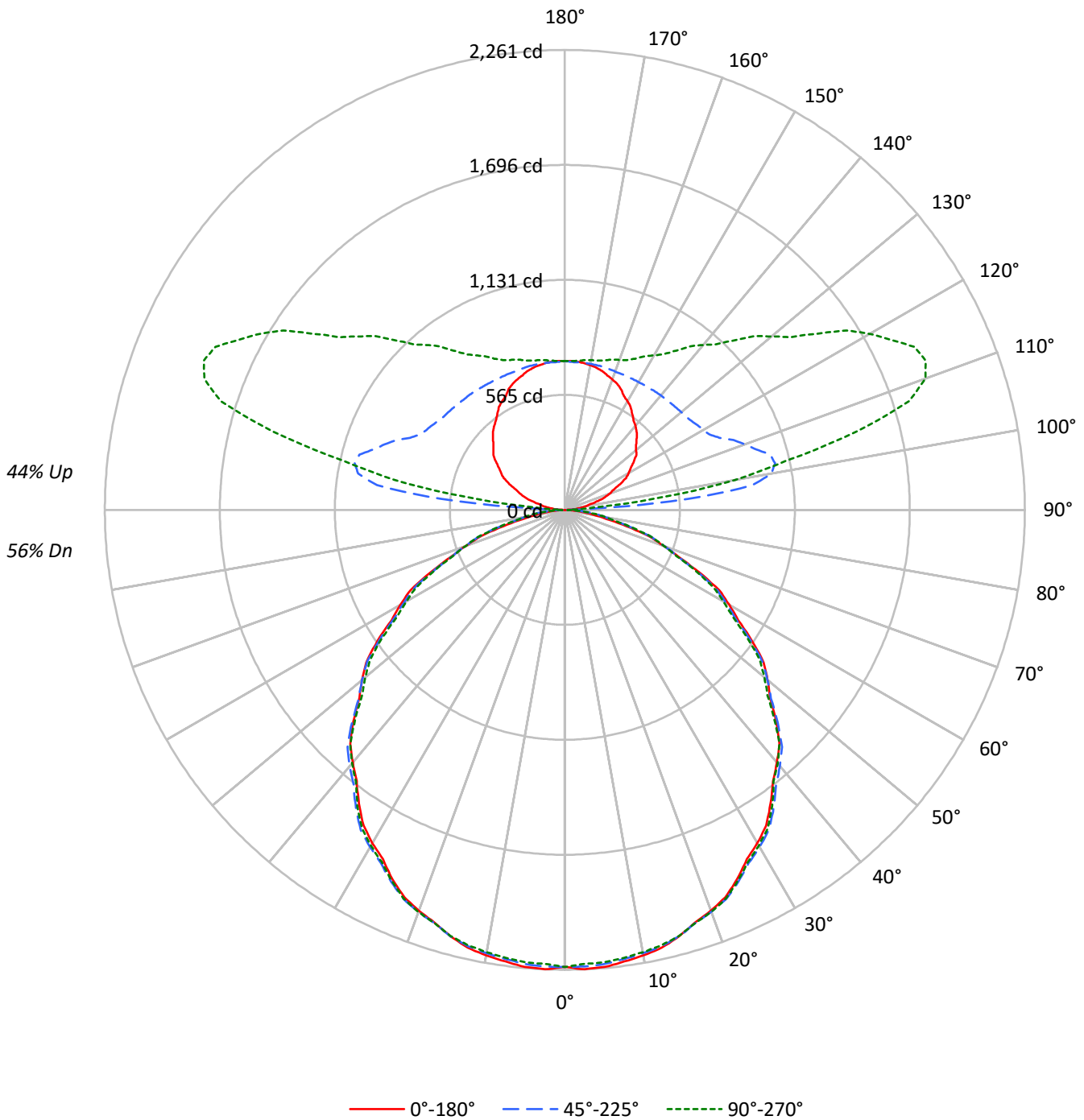
Lumens per Lamp: N/A  
Luminaire Lumens: 10900.1 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 108.3  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10339
10°	10420	10371	10342
15°	10365	10365	10355
20°	10297	10328	10328
25°	10200	10274	10243
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9800
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8787
60°	8602	8428	8294
65°	7950	7792	7723
70°	6961	7016	6989
75°	5600	6194	6231
80°	3980	5252	5308
85°	2424	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	2.0
10°-20°	610.4	5.6
20°-30°	924.3	8.5
30°-40°	1108.1	10.2
40°-50°	1129.9	10.4
50°-60°	986.3	9.0
60°-70°	706.2	6.5
70°-80°	363.7	3.3
80°-90°	93.8	0.9
90°-100°	344.9	3.2
100°-110°	949.1	8.7
110°-120°	979.6	9.0
120°-130°	784.8	7.2
130°-140°	616.4	5.7
140°-150°	472.4	4.3
150°-160°	339.7	3.1
160°-170°	207.7	1.9
170°-180°	70.0	0.6
0°-30°	1747.4	16.0
0°-40°	2855.5	26.2
0°-60°	4971.8	45.6
0°-90°	6135.5	56.3
90°-120°	2273.6	20.9
90°-150°	4147.3	38.0
90°-180°	4765.0	43.7
0°-180°	10900.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2256	2233	2241	2235	2233	214
15°	2170	2152	2170	2170	2168	612
25°	2004	1990	2018	2012	2012	922
35°	1763	1758	1790	1777	1777	1102
45°	1469	1465	1480	1461	1457	1131
55°	1124	1110	1109	1092	1092	1002
65°	728	712	714	708	708	720
75°	314	328	348	350	350	340
85°	46	70	83	85	83	62
90°	2	6	11	14	14	5
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2247.4	2247.4	2247.4	2247.4	2247.4
2.5°	2260.7	2241.2	2247.4	2242.2	2234.1
5°	2255.7	2233.4	2241.2	2234.9	2232.8
7.5°	2239.5	2217.1	2227.4	2223.2	2221.2
10°	2224.5	2202.1	2214.1	2209.9	2207.9
12.5°	2204.5	2183.8	2197.5	2193.3	2192.9
15°	2170.4	2152.1	2170.4	2170.4	2168.3
17.5°	2127.6	2110.9	2130.5	2131.7	2130.5
20°	2097.6	2079.3	2103.8	2101.8	2103.8
22.5°	2061.0	2045.9	2072.2	2066.8	2068.9
25°	2003.9	1989.7	2018.5	2012.3	2012.3
27.5°	1936.5	1926.3	1957.7	1951.1	1951.1
30°	1891.6	1881.4	1914.5	1906.1	1906.1
32.5°	1841.6	1834.7	1866.2	1856.2	1856.2
35°	1762.6	1758.5	1789.6	1777.1	1777.1
37.5°	1681.0	1677.3	1705.5	1690.4	1685.6
40°	1621.1	1619.0	1643.9	1627.3	1627.3
42.5°	1561.1	1559.1	1580.7	1560.7	1560.7
45°	1469.1	1465.1	1479.5	1460.7	1456.7
47.5°	1368.8	1364.8	1373.8	1353.4	1351.4
50°	1300.6	1296.5	1300.6	1281.8	1279.8
52.5°	1230.7	1223.3	1224.0	1205.3	1204.9
55°	1123.7	1109.5	1109.1	1092.5	1092.5
57.5°	1010.5	991.8	993.4	979.2	977.2
60°	932.3	911.9	913.5	901.0	899.0
62.5°	855.7	832.1	837.0	822.8	822.4
65°	728.3	712.1	713.8	707.5	707.5
67.5°	606.0	590.9	601.8	596.8	596.4
70°	516.1	505.9	520.2	520.2	518.2
72.5°	432.8	432.4	450.3	450.3	451.6
75°	314.2	328.5	347.5	349.6	349.6
77.5°	209.8	235.0	256.0	256.8	256.4
80°	149.8	178.3	197.7	201.8	199.8
82.5°	101.5	131.7	147.7	151.9	149.8
85°	45.8	70.2	83.2	85.3	83.2
87.5°	13.6	29.2	35.5	36.0	32.8
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)