

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: P562568

Luminaire Tested: **SQ4-PC3-025U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562568  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

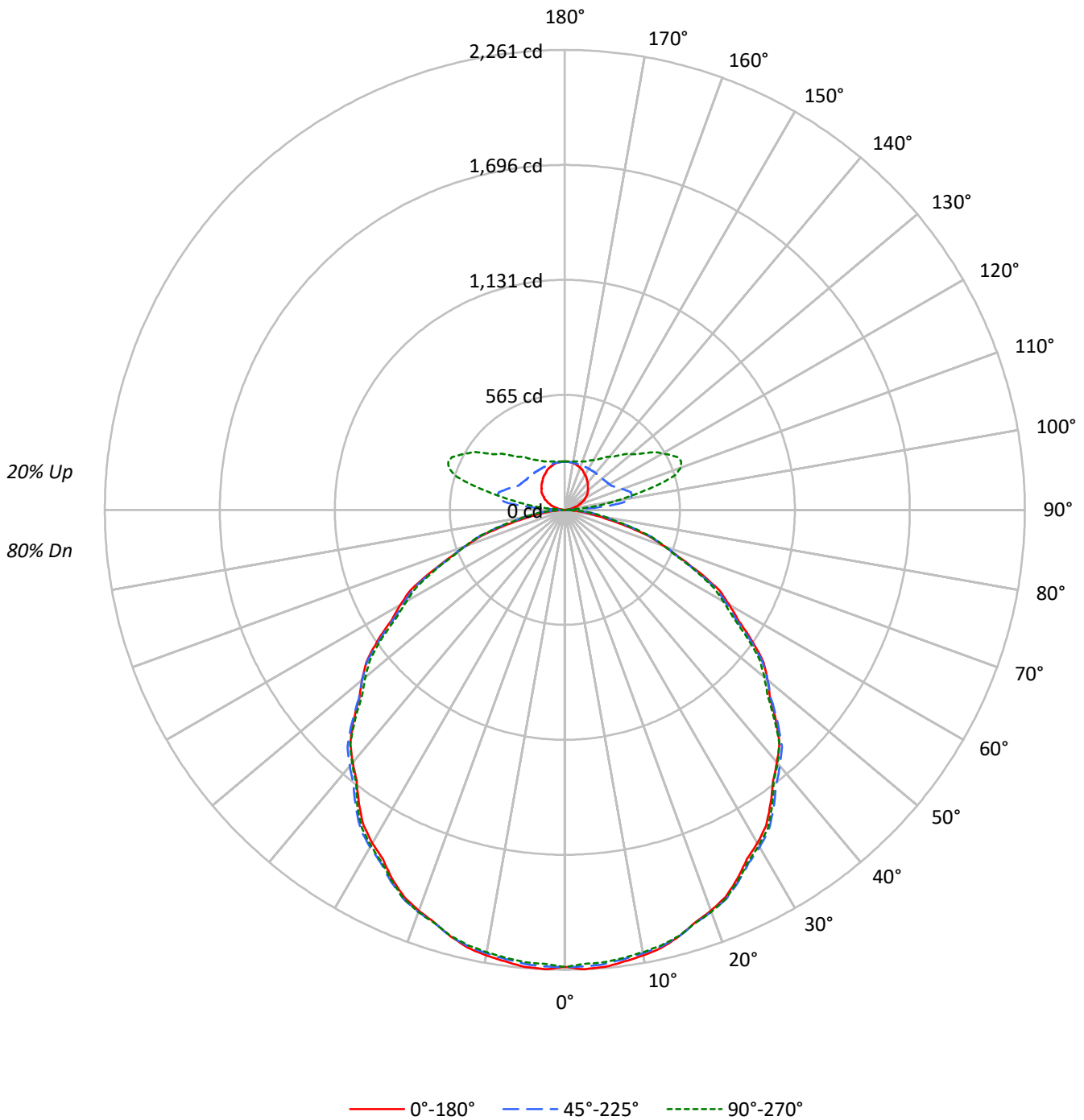
Lumens per Lamp: N/A  
Luminaire Lumens: 7672.2 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 82.2  
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	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

**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	2.8
10°-20°	610.4	8.0
20°-30°	924.3	12.0
30°-40°	1108.1	14.4
40°-50°	1129.9	14.7
50°-60°	986.3	12.9
60°-70°	706.2	9.2
70°-80°	363.7	4.7
80°-90°	93.2	1.2
90°-100°	115.6	1.5
100°-110°	303.9	4.0
110°-120°	315.1	4.1
120°-130°	252.8	3.3
130°-140°	198.3	2.6
140°-150°	152.2	2.0
150°-160°	109.6	1.4
160°-170°	67.1	0.9
170°-180°	22.7	0.3
0°-30°	1747.4	22.8
0°-40°	2855.5	37.2
0°-60°	4971.8	64.8
0°-90°	6134.9	80.0
90°-120°	734.6	9.6
90°-150°	1337.9	17.4
90°-180°	1537.0	20.0
0°-180°	7672.2	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	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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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	28.9	35.7	34.4	31.2
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)