

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: P561663

Luminaire Tested: **SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561663  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-100U-125D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

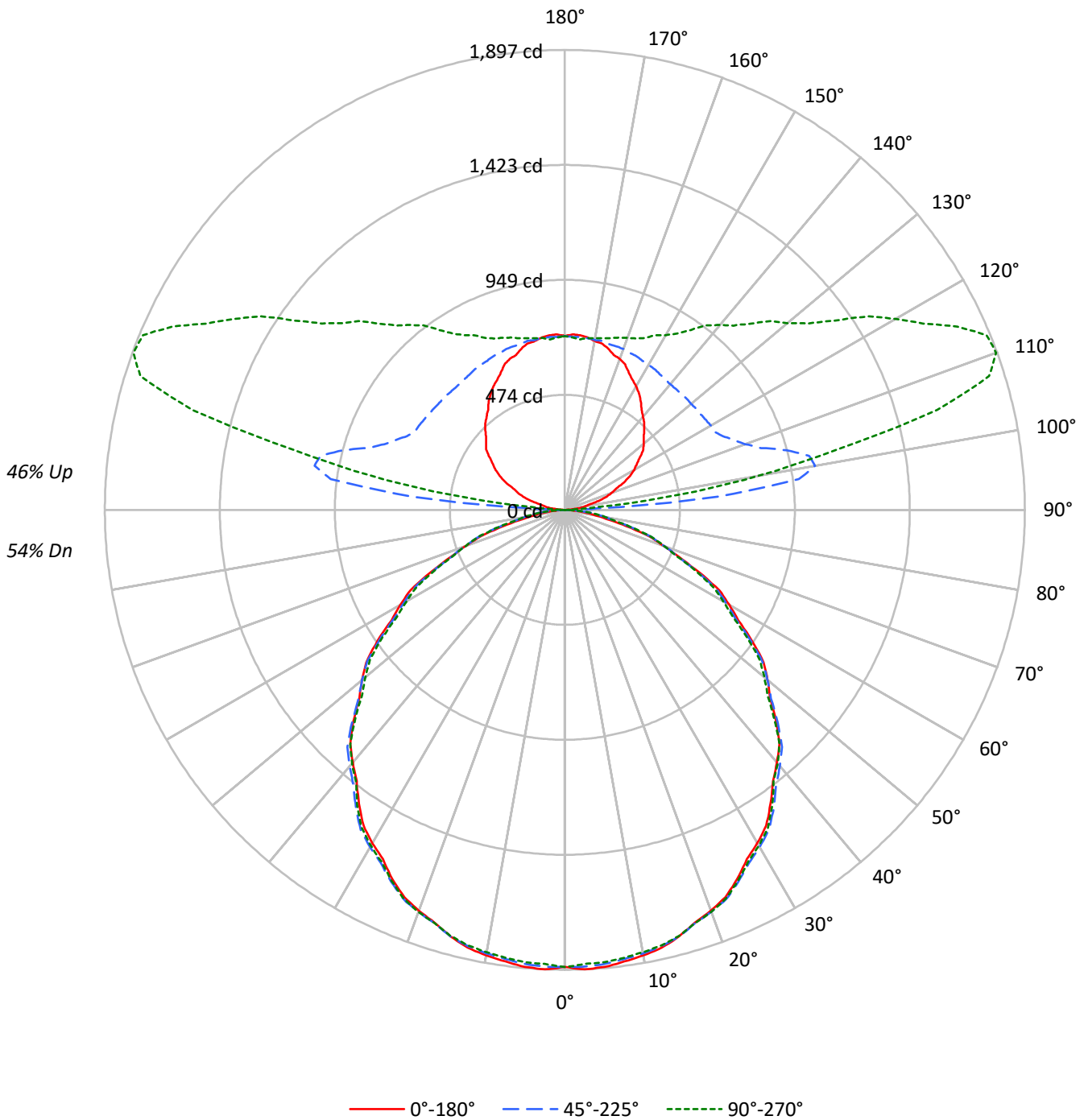
Lumens per Lamp: N/A  
Luminaire Lumens: 9599.2 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 88.2  
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				
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54		
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45		
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38		
3	82	72	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32		
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28		
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27	24		
6	63	51	43	37	59	48	40	35	41	36	31	35	31	27	30	26	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18		
8	54	42	34	29	50	39	32	27	34	28	24	29	25	22	25	21	19	16		
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15		
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13		

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

	0°	45°	90°
0°	17399	17399	17399
5°	17529	17416	17351
10°	17487	17405	17356
15°	17395	17395	17378
20°	17280	17332	17332
25°	17118	17242	17189
30°	16909	17114	17039
35°	16657	16913	16796
40°	16382	16613	16445
45°	16084	16199	15948
50°	15664	15664	15413
55°	15167	14971	14745
60°	14433	14144	13919
65°	13341	13075	12961
70°	11680	11775	11729
75°	9400	10395	10455
80°	6679	8815	8905
85°	4065	7389	7389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.5	1.9
10°-20°	512.2	5.3
20°-30°	775.6	8.1
30°-40°	929.8	9.7
40°-50°	948.1	9.9
50°-60°	827.6	8.6
60°-70°	592.5	6.2
70°-80°	305.2	3.2
80°-90°	77.2	0.8
90°-100°	326.6	3.4
100°-110°	929.4	9.7
110°-120°	890.4	9.3
120°-130°	704.7	7.3
130°-140°	565.7	5.9
140°-150°	442.8	4.6
150°-160°	324.0	3.4
160°-170°	200.7	2.1
170°-180°	68.1	0.7
0°-30°	1466.2	15.3
0°-40°	2396.0	25.0
0°-60°	4171.8	43.5
0°-90°	5146.6	53.6
90°-120°	2146.4	22.4
90°-150°	3859.7	40.2
90°-180°	4453.0	46.4
0°-180°	9599.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1893	1874	1880	1875	1874	180
15°	1821	1806	1821	1821	1819	513
25°	1682	1670	1694	1688	1688	774
35°	1479	1476	1502	1491	1491	925
45°	1233	1229	1242	1226	1222	949
55°	943	931	931	917	917	841
65°	611	598	599	594	594	604
75°	264	276	292	293	293	285
85°	38	59	70	72	70	52
90°	0	0	0	0	0	3
95°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1896.9	1880.5	1885.8	1881.4	1874.6
5°	1892.7	1874.0	1880.5	1875.2	1873.5
7.5°	1879.1	1860.3	1869.0	1865.5	1863.8
10°	1866.6	1847.8	1857.8	1854.3	1852.6
12.5°	1849.8	1832.4	1843.9	1840.4	1840.0
15°	1821.2	1805.8	1821.2	1821.1	1819.4
17.5°	1785.2	1771.2	1787.6	1788.7	1787.6
20°	1760.0	1744.7	1765.3	1763.6	1765.3
22.5°	1729.3	1716.7	1738.7	1734.2	1736.0
25°	1681.5	1669.5	1693.7	1688.5	1688.5
27.5°	1624.9	1616.4	1642.7	1637.1	1637.1
30°	1587.2	1578.6	1606.4	1599.4	1599.4
32.5°	1545.3	1539.5	1565.9	1557.5	1557.5
35°	1478.9	1475.5	1501.6	1491.2	1491.2
37.5°	1410.5	1407.4	1431.1	1418.4	1414.3
40°	1360.2	1358.5	1379.4	1365.4	1365.4
42.5°	1309.9	1308.2	1326.3	1309.6	1309.6
45°	1232.7	1229.3	1241.5	1225.7	1222.3
47.5°	1148.6	1145.2	1152.8	1135.6	1133.9
50°	1091.3	1087.9	1091.3	1075.5	1073.8
52.5°	1032.6	1026.5	1027.0	1011.3	1011.0
55°	942.9	930.9	930.7	916.7	916.7
57.5°	847.9	832.2	833.6	821.7	820.0
60°	782.2	765.2	766.5	756.0	754.3
62.5°	718.0	698.2	702.3	690.4	690.0
65°	611.1	597.5	598.9	593.7	593.7
67.5°	508.5	495.8	505.0	500.8	500.4
70°	433.0	424.5	436.5	436.5	434.8
72.5°	363.2	362.8	377.9	377.9	378.9
75°	263.7	275.6	291.6	293.3	293.3
77.5°	176.0	197.2	214.8	215.5	215.1
80°	125.7	149.6	165.9	169.3	167.6
82.5°	85.2	110.5	124.0	127.4	125.7
85°	38.4	58.9	69.8	71.6	69.8
87.5°	11.2	23.5	27.9	27.9	25.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)