

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: P562669

Luminaire Tested: **SQ4-PC3-050U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562669  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

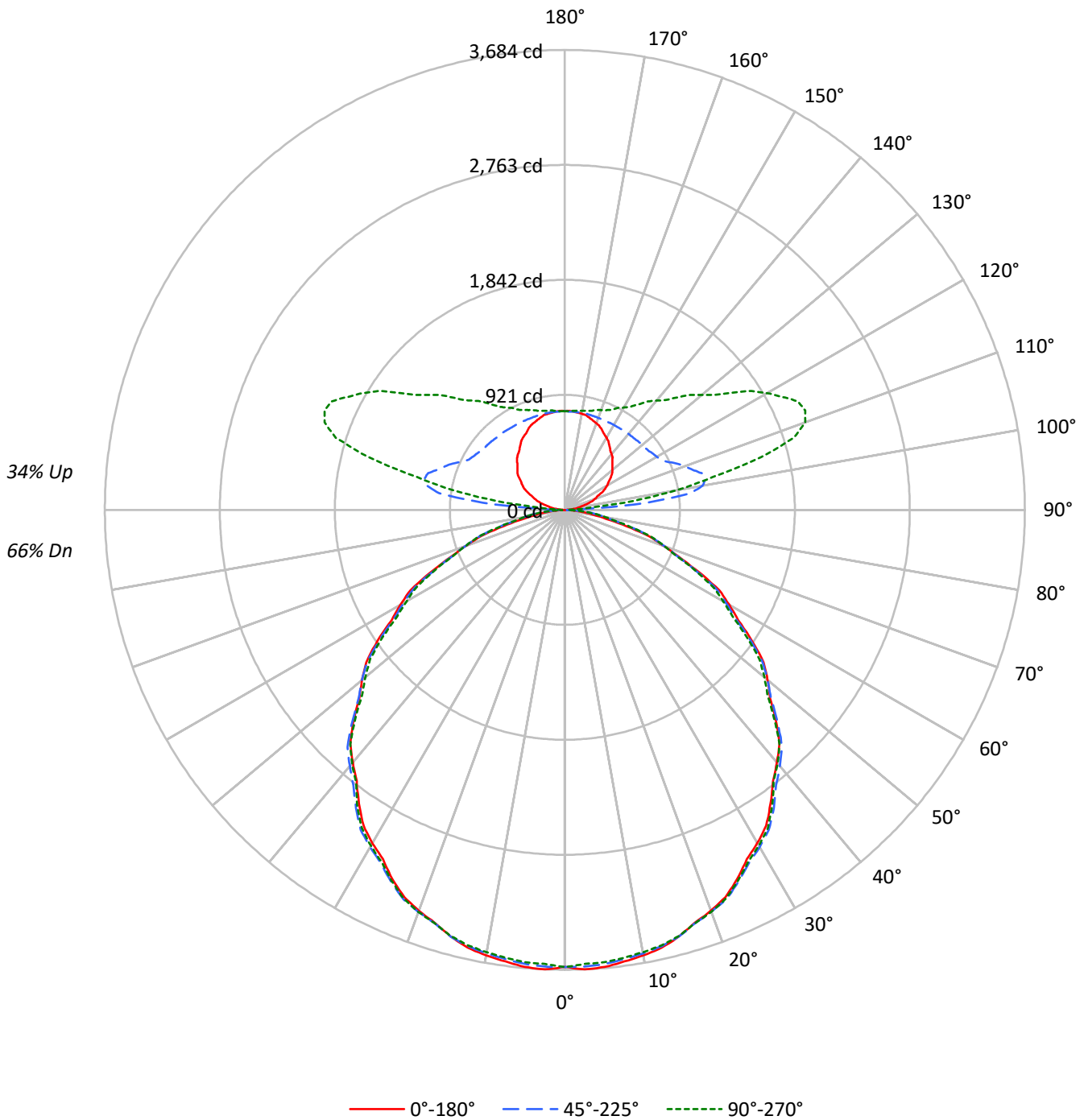
Lumens per Lamp: N/A  
Luminaire Lumens: 15164.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 134.4  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

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

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11162	11127
30°	10946	11079	11030
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10486	10324
50°	10140	10140	9978
55°	9818	9691	9546
60°	9344	9156	9010
65°	8636	8464	8390
70°	7562	7622	7593
75°	6084	6729	6769
80°	4325	5705	5765
85°	2632	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.6	2.3
10°-20°	994.6	6.6
20°-30°	1506.2	9.9
30°-40°	1805.8	11.9
40°-50°	1841.3	12.1
50°-60°	1607.3	10.6
60°-70°	1150.7	7.6
70°-80°	592.7	3.9
80°-90°	152.9	1.0
90°-100°	379.8	2.5
100°-110°	1031.8	6.8
110°-120°	1060.8	7.0
120°-130°	848.2	5.6
130°-140°	666.4	4.4
140°-150°	511.0	3.4
150°-160°	367.5	2.4
160°-170°	224.7	1.5
170°-180°	75.7	0.5
0°-30°	2847.5	18.8
0°-40°	4653.2	30.7
0°-60°	8101.8	53.4
0°-90°	9998.1	65.9
90°-120°	2472.4	16.3
90°-150°	4498.0	29.7
90°-180°	5166.0	34.1
0°-180°	15164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3676	3639	3652	3642	3638	349
15°	3537	3507	3537	3537	3533	997
25°	3266	3242	3289	3279	3279	1503
35°	2872	2866	2916	2896	2896	1796
45°	2394	2387	2411	2380	2374	1843
55°	1831	1808	1807	1780	1780	1632
65°	1187	1160	1163	1153	1153	1174
75°	512	535	566	570	570	553
85°	75	114	136	139	136	101
90°	2	10	18	23	23	7
95°	56	208	661	288	193	59
105°	183	285	1135	1728	1626	195
115°	326	395	908	1807	2058	321
125°	448	510	822	1384	1633	399
135°	539	599	799	1128	1272	417
145°	623	668	789	958	1030	391
155°	705	730	784	860	885	325
165°	763	773	786	819	822	215
175°	791	794	789	799	796	75
180°	791	791	791	791	791	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3662.3	3662.3	3662.3	3662.3	3662.3
2.5°	3684.0	3652.1	3662.3	3653.8	3640.6
5°	3675.8	3639.4	3652.1	3641.9	3638.5
7.5°	3649.4	3612.9	3629.7	3622.9	3619.5
10°	3625.0	3588.5	3608.0	3601.2	3597.8
12.5°	3592.4	3558.6	3580.9	3574.1	3573.4
15°	3536.8	3507.0	3536.8	3536.7	3533.4
17.5°	3467.0	3439.8	3471.7	3473.7	3471.7
20°	3418.1	3388.3	3428.3	3425.0	3428.3
22.5°	3358.4	3333.9	3376.8	3368.0	3371.3
25°	3265.5	3242.3	3289.3	3279.1	3279.1
27.5°	3155.7	3139.1	3190.2	3179.4	3179.4
30°	3082.4	3065.8	3119.7	3106.1	3106.1
32.5°	3001.0	2989.8	3041.0	3024.8	3024.8
35°	2872.2	2865.5	2916.3	2895.9	2895.9
37.5°	2739.2	2733.3	2779.3	2754.7	2746.7
40°	2641.6	2638.3	2678.9	2651.8	2651.8
42.5°	2543.9	2540.6	2575.8	2543.2	2543.2
45°	2394.0	2387.4	2411.0	2380.3	2373.7
47.5°	2230.6	2224.0	2238.7	2205.4	2202.1
50°	2119.4	2112.7	2119.4	2088.8	2085.5
52.5°	2005.4	1993.5	1994.6	1964.0	1963.4
55°	1831.1	1807.9	1807.4	1780.3	1780.3
57.5°	1646.7	1616.2	1618.9	1595.7	1592.4
60°	1519.2	1486.0	1488.6	1468.2	1464.9
62.5°	1394.4	1355.9	1363.9	1340.8	1340.1
65°	1186.8	1160.3	1163.1	1152.9	1152.9
67.5°	987.5	962.9	980.7	972.5	971.9
70°	841.0	824.4	847.7	847.7	844.4
72.5°	705.3	704.7	733.8	733.9	735.8
75°	512.0	535.2	566.3	569.7	569.7
77.5°	341.8	382.9	417.1	418.4	417.8
80°	244.2	290.6	322.1	328.9	325.5
82.5°	165.5	214.6	240.8	247.5	244.2
85°	74.6	114.4	135.6	139.0	135.6
87.5°	22.2	47.6	57.8	58.7	53.4
90°	2.5	10.0	17.8	22.9	22.9
92.5°	22.9	104.0	180.6	77.6	65.6
95°	56.0	207.7	661.4	287.9	193.3
97.5°	92.6	229.4	1014.0	788.9	554.1
100°	117.0	243.9	1121.9	1137.3	918.4
102.5°	141.4	258.4	1150.4	1406.5	1213.5
105°	183.2	285.2	1134.6	1727.6	1625.6
107.5°	226.4	316.5	1069.0	1893.4	1921.8
110°	256.9	339.0	1020.2	1926.1	2047.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	361.5	971.3	1899.0	2082.5
115°	325.6	395.3	908.2	1806.9	2058.1
117.5°	365.3	432.0	868.0	1676.3	1959.4
120°	391.8	456.5	849.7	1588.8	1869.9
122.5°	414.2	478.8	837.5	1501.0	1772.2
125°	447.7	509.9	821.7	1384.5	1633.3
127.5°	477.8	539.5	813.1	1296.2	1509.6
130°	496.1	555.8	809.0	1240.8	1432.3
132.5°	514.4	574.1	804.9	1193.4	1363.1
135°	539.3	599.0	798.8	1127.7	1272.0
137.5°	566.3	620.5	795.8	1069.7	1191.1
140°	582.6	634.8	793.7	1032.8	1142.3
142.5°	598.9	647.1	791.7	1003.9	1095.5
145°	623.3	668.1	788.6	958.2	1030.3
147.5°	650.8	689.1	786.1	922.2	978.9
150°	669.1	701.4	786.1	901.6	946.4
152.5°	683.3	711.7	784.1	883.1	919.9
155°	704.7	729.6	783.6	860.4	885.3
157.5°	725.6	745.0	783.6	845.0	864.0
160°	737.8	755.2	783.6	834.8	849.7
162.5°	750.0	763.4	785.6	826.5	837.5
165°	763.2	773.2	786.1	819.2	821.7
167.5°	776.9	781.9	788.6	810.6	812.6
170°	781.0	786.0	788.6	806.5	806.5
172.5°	785.1	788.1	788.6	802.4	802.4
175°	791.2	793.7	788.6	798.8	796.3
177.5°	793.2	793.2	787.1	795.2	791.2
180°	791.2	791.2	791.2	791.2	791.2

(END OF REPORT)