

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: P561637

Luminaire Tested: **SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561637  
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-075D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 750 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**

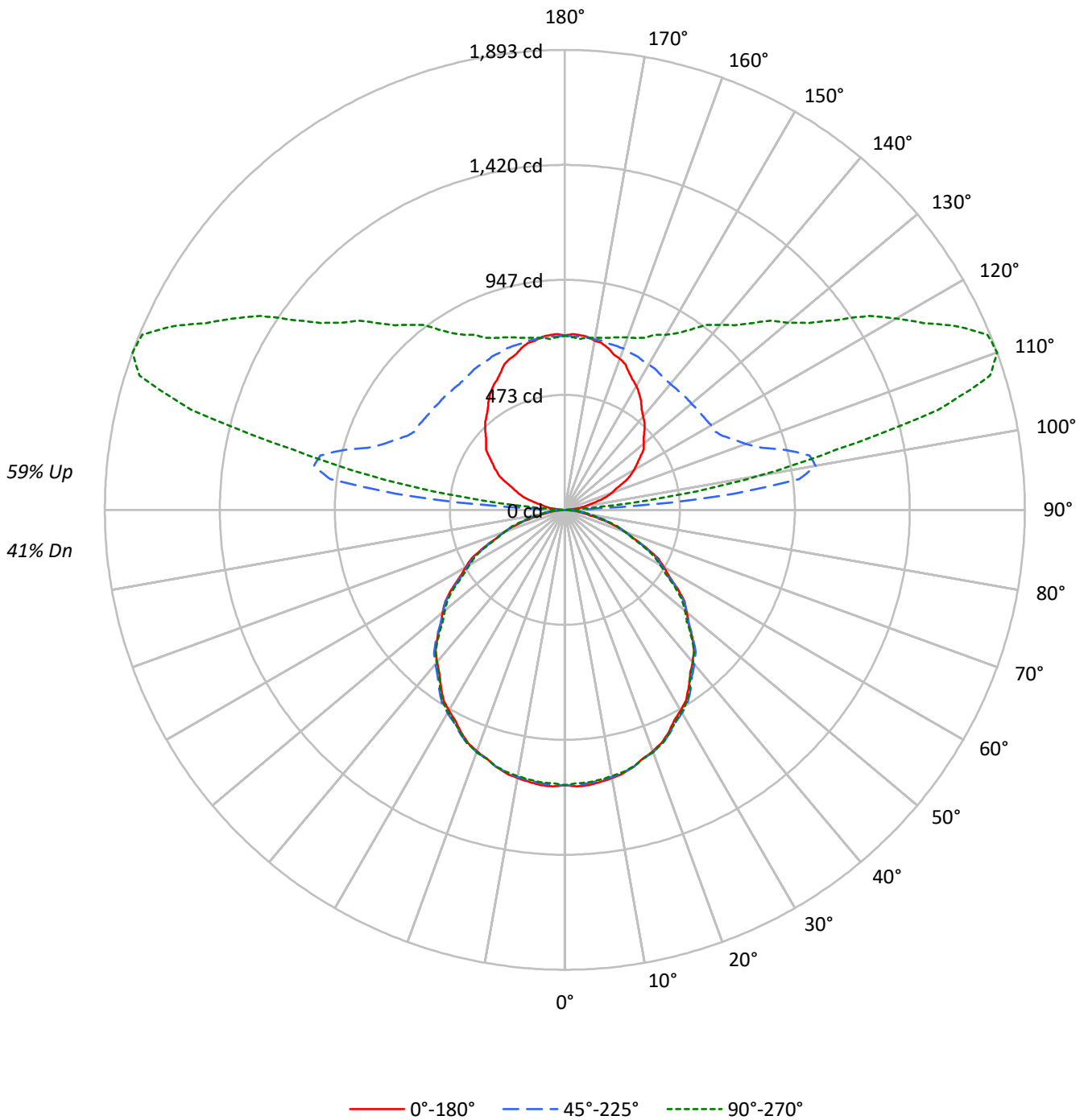
Lumens per Lamp: N/A  
Luminaire Lumens: 7544.8 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.3  
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	35
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	36	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	20	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	10453	10453	10453
5°	10532	10465	10426
10°	10507	10458	10428
15°	10451	10451	10442
20°	10383	10414	10414
25°	10285	10359	10328
30°	10159	10283	10238
35°	10008	10162	10091
40°	9844	9982	9881
45°	9665	9732	9582
50°	9412	9412	9261
55°	9112	8995	8860
60°	8673	8499	8363
65°	8016	7855	7787
70°	7019	7076	7046
75°	5647	6245	6285
80°	4011	5297	5350
85°	2445	4446	4446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	1.4
10°-20°	307.7	4.1
20°-30°	466.0	6.2
30°-40°	558.7	7.4
40°-50°	569.6	7.6
50°-60°	497.3	6.6
60°-70°	356.0	4.7
70°-80°	183.4	2.4
80°-90°	46.4	0.6
90°-100°	326.6	4.3
100°-110°	929.4	12.3
110°-120°	890.4	11.8
120°-130°	704.7	9.3
130°-140°	565.7	7.5
140°-150°	442.8	5.9
150°-160°	324.0	4.3
160°-170°	200.7	2.7
170°-180°	68.1	0.9
0°-30°	880.9	11.7
0°-40°	1439.6	19.1
0°-60°	2506.5	33.2
0°-90°	3092.3	41.0
90°-120°	2146.4	28.4
90°-150°	3859.7	51.2
90°-180°	4453.0	59.0
0°-180°	7544.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1137	1126	1130	1127	1126	108
15°	1094	1085	1094	1094	1093	309
25°	1010	1003	1018	1014	1014	465
35°	889	886	902	896	896	556
45°	741	739	746	736	734	570
55°	566	559	559	551	551	505
65°	367	359	360	357	357	363
75°	158	166	175	176	176	171
85°	23	35	42	43	42	31
90°	0	0	0	0	0	2
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°	1133.0	1133.0	1133.0	1133.0	1133.0
2.5°	1139.8	1129.9	1133.0	1130.4	1126.3
5°	1137.2	1126.0	1129.9	1126.7	1125.7
7.5°	1129.1	1117.8	1123.0	1120.8	1119.8
10°	1121.5	1110.2	1116.3	1114.1	1113.1
12.5°	1111.4	1101.0	1107.9	1105.8	1105.6
15°	1094.2	1085.0	1094.2	1094.2	1093.2
17.5°	1072.6	1064.2	1074.1	1074.7	1074.1
20°	1057.5	1048.3	1060.7	1059.6	1060.7
22.5°	1039.0	1031.4	1044.7	1042.0	1043.0
25°	1010.3	1003.1	1017.6	1014.5	1014.5
27.5°	976.3	971.2	987.0	983.6	983.6
30°	953.6	948.5	965.2	961.0	961.0
32.5°	928.5	925.0	940.8	935.8	935.8
35°	888.6	886.5	902.2	895.9	895.9
37.5°	847.5	845.6	859.9	852.2	849.8
40°	817.3	816.2	828.8	820.4	820.4
42.5°	787.0	786.0	796.9	786.8	786.8
45°	740.7	738.6	745.9	736.4	734.4
47.5°	690.1	688.1	692.6	682.3	681.3
50°	655.7	653.6	655.7	646.2	645.2
52.5°	620.4	616.8	617.1	607.6	607.4
55°	566.5	559.3	559.2	550.8	550.8
57.5°	509.4	500.0	500.8	493.7	492.7
60°	470.0	459.7	460.6	454.2	453.2
62.5°	431.4	419.5	422.0	414.8	414.6
65°	367.2	359.0	359.8	356.7	356.7
67.5°	305.5	297.9	303.4	300.9	300.7
70°	260.2	255.1	262.3	262.3	261.2
72.5°	218.2	218.0	227.0	227.0	227.7
75°	158.4	165.6	175.2	176.3	176.3
77.5°	105.8	118.5	129.0	129.5	129.3
80°	75.5	89.9	99.7	101.7	100.7
82.5°	51.2	66.4	74.5	76.6	75.5
85°	23.1	35.4	42.0	43.0	42.0
87.5°	6.7	14.1	16.8	16.7	15.1
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)