

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: P561988

Luminaire Tested: **SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561988  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 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**

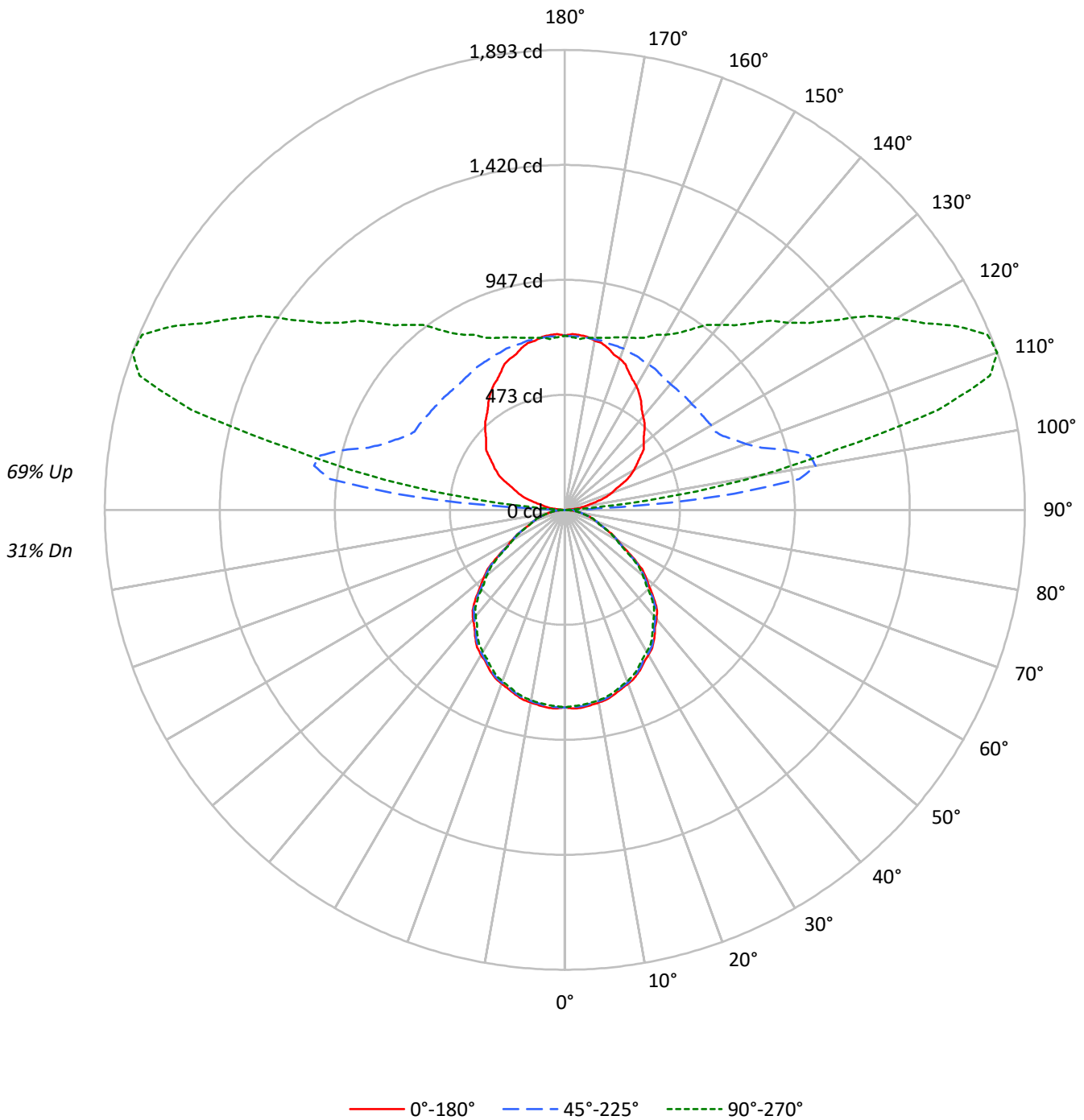
Lumens per Lamp: N/A  
Luminaire Lumens: 6485.7 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 53.1  
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	86	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	57	70	62	56	52	50	46	42	38	35	33	27	26	24	19
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	66	54	47	41	59	49	43	38	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	37	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	18	16	14	12
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	11	8

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

	0°	45°	90°
0°	7504	7504	7504
5°	7571	7513	7474
10°	7547	7495	7455
15°	7514	7467	7427
20°	7477	7429	7373
25°	7423	7373	7288
30°	7343	7291	7187
35°	7235	7172	7070
40°	7070	6994	6867
45°	6782	6664	6527
50°	6274	6123	6003
55°	5475	5352	5239
60°	4615	4576	4486
65°	3991	4006	3975
70°	3666	3685	3685
75°	3522	3522	3547
80°	3310	3347	3310
85°	2668	2964	2964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	1.2
10°-20°	220.0	3.4
20°-30°	331.9	5.1
30°-40°	395.5	6.1
40°-50°	389.9	6.0
50°-60°	298.0	4.6
60°-70°	184.4	2.8
70°-80°	104.7	1.6
80°-90°	31.9	0.5
90°-100°	326.6	5.0
100°-110°	929.4	14.3
110°-120°	890.4	13.7
120°-130°	704.7	10.9
130°-140°	565.7	8.7
140°-150°	442.8	6.8
150°-160°	324.0	5.0
160°-170°	200.7	3.1
170°-180°	68.1	1.1
0°-30°	628.9	9.7
0°-40°	1024.3	15.8
0°-60°	1712.2	26.4
0°-90°	2033.1	31.3
90°-120°	2146.4	33.1
90°-150°	3859.7	59.5
90°-180°	4453.0	68.7
0°-180°	6485.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	818	809	811	808	807	78
15°	787	778	782	779	778	222
25°	729	720	724	717	716	336
35°	642	635	637	628	628	401
45°	520	513	511	502	500	398
55°	340	335	333	327	326	305
65°	183	182	184	182	182	185
75°	99	99	99	100	100	104
85°	25	27	28	28	28	29
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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CATALOG NUMBER: SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	813.3	813.3	813.3	813.3	813.3
2.5°	818.3	811.2	813.3	811.5	807.7
5°	817.5	808.6	811.2	808.4	807.0
7.5°	811.2	802.4	805.0	802.2	801.4
10°	805.6	797.4	800.0	797.2	795.8
12.5°	799.4	790.7	793.8	790.4	789.1
15°	786.7	778.5	781.8	778.9	777.6
17.5°	772.7	763.9	767.2	763.9	762.2
20°	761.5	753.2	756.6	751.6	750.9
22.5°	749.1	740.9	744.2	737.6	737.5
25°	729.2	720.3	724.3	716.6	715.9
27.5°	705.6	697.3	700.7	692.8	692.0
30°	689.3	681.1	684.4	676.0	674.6
32.5°	670.8	663.1	665.9	657.5	656.7
35°	642.4	634.8	636.8	628.3	627.7
37.5°	610.0	603.2	604.3	595.0	594.3
40°	587.0	580.2	580.7	570.9	570.2
42.5°	561.8	555.0	554.4	544.6	543.9
45°	519.8	512.9	510.7	501.5	500.2
47.5°	471.9	465.0	460.8	453.3	452.4
50°	437.1	430.3	426.6	420.3	418.2
52.5°	399.6	392.7	389.6	383.8	381.8
55°	340.4	335.0	332.7	327.1	325.7
57.5°	284.3	280.6	279.9	274.4	273.9
60°	250.1	248.0	248.0	243.1	243.1
62.5°	220.9	219.4	220.5	217.3	216.7
65°	182.8	181.5	183.5	182.1	182.1
67.5°	152.7	152.7	154.0	153.4	153.4
70°	135.9	135.9	136.6	136.6	136.6
72.5°	120.8	120.2	122.0	122.0	121.5
75°	98.8	98.8	98.8	99.5	99.5
77.5°	76.9	77.1	77.6	77.5	76.9
80°	62.3	63.0	63.0	62.3	62.3
82.5°	47.8	48.5	48.5	48.3	47.8
85°	25.2	26.6	28.0	28.0	28.0
87.5°	7.3	9.5	11.2	11.2	10.6
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)