

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: P523855

Luminaire Tested: **SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523855  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8326.8 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

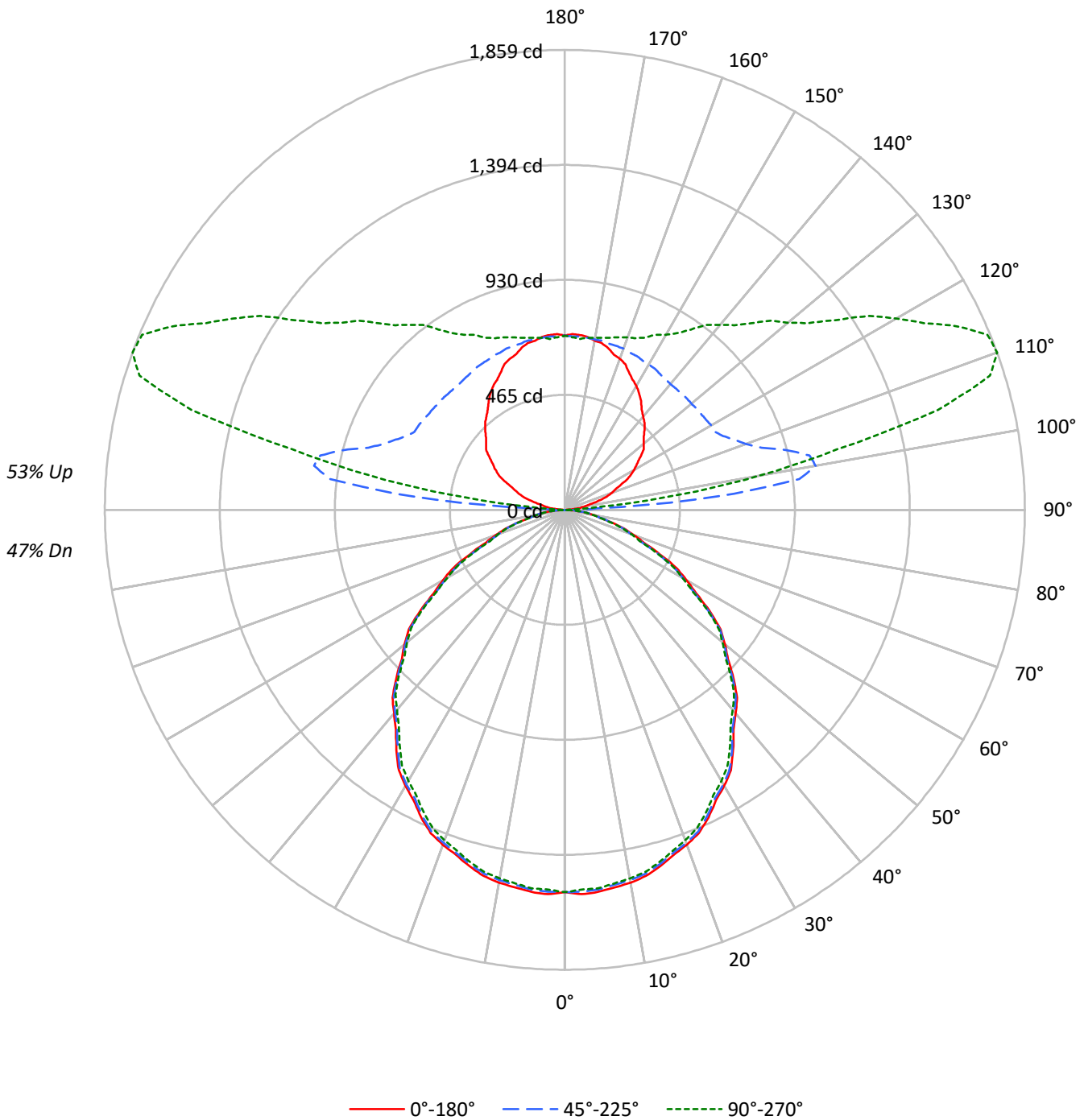
Input Watts (W): 74.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46				40	
2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	41	39				34	
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	38	35	33				29	
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29				25	
5	68	57	49	43	62	52	45	40	45	39	35	37	33	30	30	27	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	29	26	28	24	22				19	
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20				17	
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16				14	
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14				12	

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

	0°	45°	90°
0°	14254	14254	14254
5°	14359	14271	14221
10°	14335	14233	14170
15°	14240	14162	14084
20°	14145	14066	13959
25°	13977	13880	13743
30°	13719	13646	13473
35°	13359	13268	13100
40°	12932	12851	12704
45°	12579	12491	12367
50°	12127	12050	11933
55°	11499	11348	11260
60°	10468	10169	10119
65°	9224	8839	8809
70°	7963	7634	7634
75°	6855	6759	6662
80°	6041	6115	5972
85°	4732	5155	5155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	1.8
10°-20°	417.1	5.0
20°-30°	624.8	7.5
30°-40°	732.9	8.8
40°-50°	735.2	8.8
50°-60°	627.2	7.5
60°-70°	409.0	4.9
70°-80°	205.2	2.5
80°-90°	56.8	0.7
90°-100°	320.7	3.9
100°-110°	912.7	11.0
110°-120°	874.4	10.5
120°-130°	692.1	8.3
130°-140°	555.5	6.7
140°-150°	434.9	5.2
150°-160°	318.2	3.8
160°-170°	197.1	2.4
170°-180°	66.9	0.8
0°-30°	1188.0	14.3
0°-40°	1920.9	23.1
0°-60°	3283.2	39.4
0°-90°	3954.2	47.5
90°-120°	2107.9	25.3
90°-150°	3790.4	45.5
90°-180°	4373.0	52.5
0°-180°	8326.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1550	1536	1541	1536	1536	147
15°	1491	1476	1483	1477	1474	421
25°	1373	1357	1364	1351	1350	631
35°	1186	1174	1178	1164	1163	741
45°	964	958	957	948	948	742
55°	715	712	706	701	700	635
65°	422	414	405	402	404	422
75°	192	192	190	188	187	209
85°	45	49	49	49	49	52
90°	0	0	0	0	0	3
95°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1554.7	1542.0	1545.0	1542.6	1536.3
5°	1550.4	1535.8	1540.9	1535.5	1535.5
7.5°	1539.8	1523.9	1529.0	1523.6	1523.3
10°	1530.1	1514.2	1519.2	1513.8	1512.5
12.5°	1516.0	1500.1	1506.2	1499.7	1499.5
15°	1490.8	1476.2	1482.7	1477.2	1474.5
17.5°	1462.4	1446.5	1454.2	1446.6	1445.6
20°	1440.7	1424.8	1432.6	1421.7	1421.7
22.5°	1414.7	1398.8	1407.7	1393.6	1393.6
25°	1373.0	1357.1	1363.5	1351.3	1350.0
27.5°	1323.4	1307.8	1314.5	1300.7	1300.4
30°	1287.7	1273.1	1280.9	1266.0	1264.7
32.5°	1248.7	1235.2	1240.8	1225.9	1224.6
35°	1186.1	1174.2	1178.0	1164.4	1163.1
37.5°	1120.3	1108.1	1112.5	1100.8	1100.3
40°	1073.7	1065.8	1067.0	1057.4	1054.8
42.5°	1030.4	1021.4	1022.6	1013.1	1012.5
45°	964.1	957.5	957.3	947.8	947.8
47.5°	893.7	888.6	887.2	879.3	879.0
50°	844.9	840.9	839.5	832.7	831.4
52.5°	794.0	792.2	787.5	781.8	781.5
55°	714.9	712.3	705.5	701.4	700.0
57.5°	629.1	623.8	616.1	610.2	611.2
60°	567.3	562.0	551.1	548.4	548.4
62.5°	507.8	501.4	490.4	486.7	488.8
65°	422.5	414.5	404.9	402.2	403.5
67.5°	345.0	337.9	327.4	327.4	326.3
70°	295.2	291.2	283.0	283.0	283.0
72.5°	250.8	248.9	242.9	242.9	241.8
75°	192.3	192.3	189.6	188.2	186.9
77.5°	144.1	144.6	143.3	141.8	139.5
80°	113.7	116.4	115.1	113.7	112.4
82.5°	85.6	88.2	88.0	85.6	85.3
85°	44.7	48.7	48.7	48.7	48.7
87.5°	11.9	16.2	17.3	17.4	18.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)