

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: P564279

Luminaire Tested: **SQ4-PR1-100U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564279  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-075D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

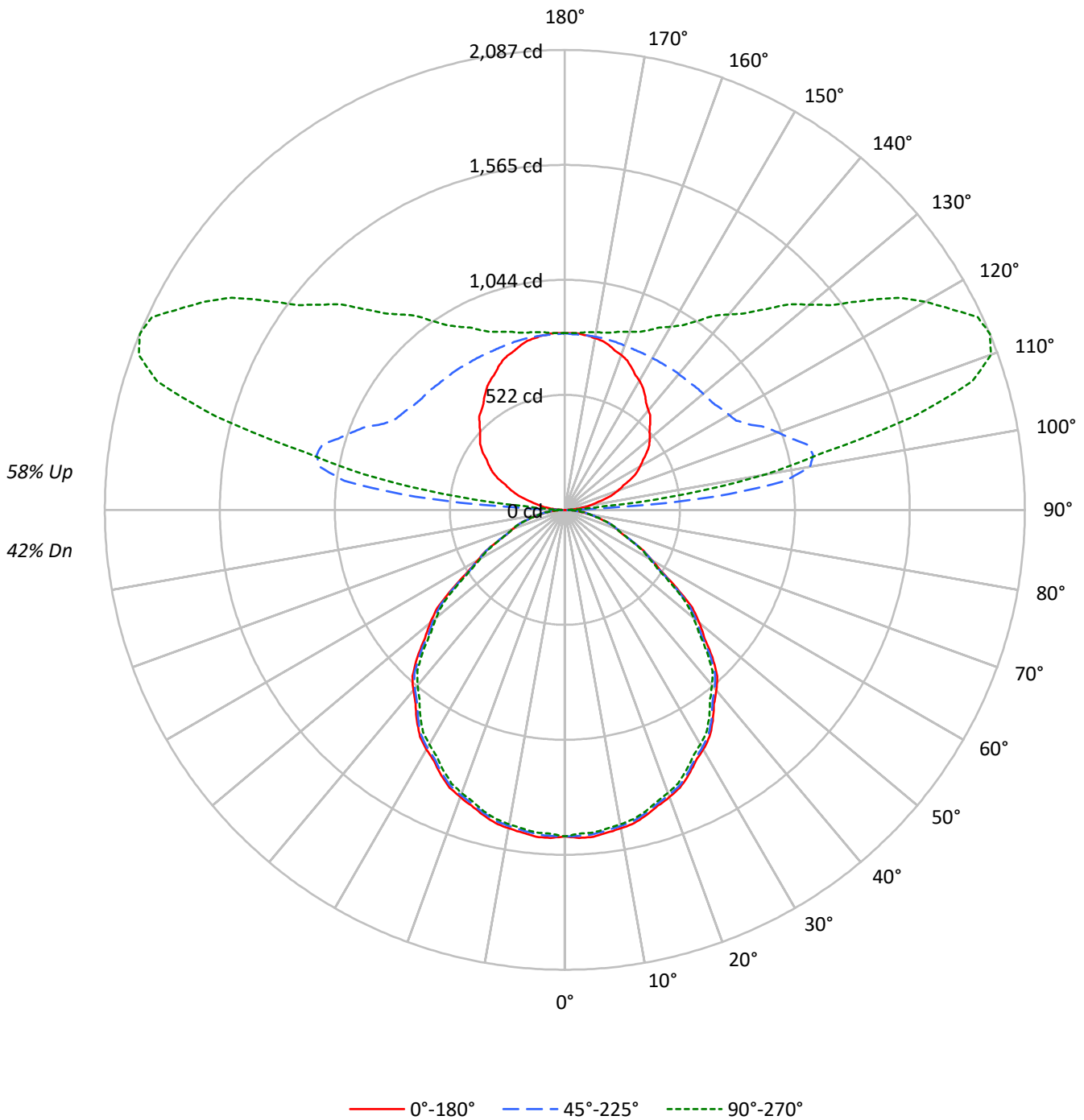
Lumens per Lamp: N/A  
Luminaire Lumens: 8913.3 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 78  
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	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

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

	0°	45°	90°
0°	9112	9112	9112
5°	9195	9124	9076
10°	9166	9102	9054
15°	9125	9068	9019
20°	9079	9020	8954
25°	9015	8954	8850
30°	8918	8854	8727
35°	8786	8709	8585
40°	8586	8493	8340
45°	8236	8091	7925
50°	7620	7436	7290
55°	6651	6500	6363
60°	5605	5557	5447
65°	4846	4865	4829
70°	4453	4474	4474
75°	4275	4275	4306
80°	4024	4066	4024
85°	3239	3599	3599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	1.6
10°-20°	400.8	4.5
20°-30°	604.6	6.8
30°-40°	720.4	8.1
40°-50°	710.2	8.0
50°-60°	542.8	6.1
60°-70°	335.9	3.8
70°-80°	190.8	2.1
80°-90°	59.7	0.7
90°-100°	375.4	4.2
100°-110°	1036.3	11.6
110°-120°	1068.7	12.0
120°-130°	858.8	9.6
130°-140°	674.9	7.6
140°-150°	517.7	5.8
150°-160°	372.0	4.2
160°-170°	227.5	2.6
170°-180°	76.7	0.9
0°-30°	1145.5	12.9
0°-40°	1865.9	20.9
0°-60°	3118.9	35.0
0°-90°	3705.2	41.6
90°-120°	2480.4	27.8
90°-150°	4531.8	50.8
90°-180°	5208.0	58.4
0°-180°	8913.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1489	1473	1478	1472	1470	141
15°	1433	1418	1424	1419	1416	404
25°	1328	1312	1319	1305	1304	611
35°	1170	1156	1160	1145	1143	730
45°	947	934	930	914	911	725
55°	620	610	606	596	593	556
65°	333	331	334	332	332	337
75°	180	180	180	181	181	190
85°	46	48	51	51	51	53
90°	3	5	10	12	13	6
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1490.7	1477.7	1481.5	1478.3	1471.3
5°	1489.2	1472.9	1477.7	1472.5	1470.0
7.5°	1477.7	1461.7	1466.4	1461.3	1459.8
10°	1467.5	1452.5	1457.3	1452.1	1449.6
12.5°	1456.2	1440.3	1446.0	1439.8	1437.3
15°	1433.0	1418.0	1424.1	1418.9	1416.4
17.5°	1407.5	1391.5	1397.5	1391.6	1388.3
20°	1387.1	1372.1	1378.1	1369.2	1367.9
22.5°	1364.6	1349.6	1355.7	1343.7	1343.4
25°	1328.4	1312.1	1319.4	1305.4	1304.1
27.5°	1285.2	1270.3	1276.3	1262.0	1260.5
30°	1255.6	1240.7	1246.7	1231.3	1228.8
32.5°	1221.9	1208.0	1213.0	1197.7	1196.2
35°	1170.1	1156.4	1159.9	1144.6	1143.3
37.5°	1111.2	1098.7	1100.7	1083.8	1082.6
40°	1069.3	1056.9	1057.8	1040.0	1038.7
42.5°	1023.4	1010.9	1009.9	992.0	990.7
45°	946.8	934.4	930.2	913.6	911.1
47.5°	859.5	847.1	839.4	825.8	824.1
50°	796.3	783.8	777.1	765.5	761.8
52.5°	727.9	715.4	709.7	699.2	695.4
55°	620.2	610.2	606.1	595.9	593.4
57.5°	517.8	511.1	509.9	499.9	498.9
60°	455.6	451.8	451.7	442.8	442.8
62.5°	402.5	399.7	401.7	395.8	394.8
65°	333.0	330.6	334.3	331.8	331.8
67.5°	278.2	278.2	280.5	279.5	279.5
70°	247.6	247.6	248.8	248.8	248.8
72.5°	220.0	219.0	222.3	222.3	221.3
75°	179.9	179.9	179.9	181.2	181.2
77.5°	140.1	140.4	141.4	141.1	140.1
80°	113.6	114.8	114.8	113.6	113.6
82.5°	87.0	88.3	88.3	88.0	87.0
85°	45.9	48.4	51.0	51.0	51.0
87.5°	13.8	18.3	22.5	22.7	22.0
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)