

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: P562011

Luminaire Tested: **SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562011
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-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

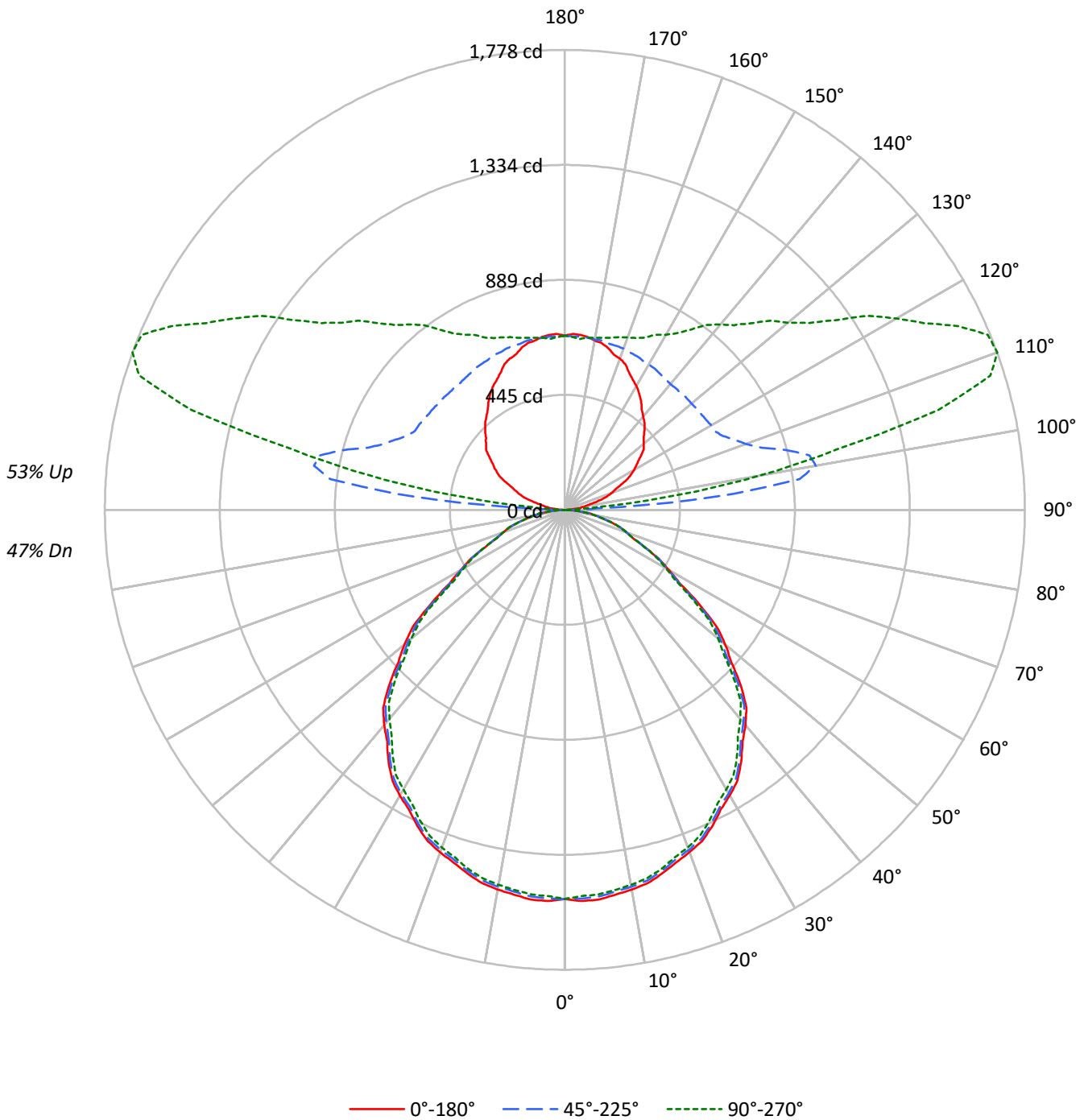
Lumens per Lamp: N/A
Luminaire Lumens: 7944.1 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.6
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	82	75	70	66	64	60	57	53	50	48	42	41	39				34	
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	30	31	28	25				22	
6	63	51	43	38	58	48	40	35	41	35	31	34	30	27	28	25	22				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	25	22	20				17	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	23	20	18				16	
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	22	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13880	13880	13880
5°	14004	13897	13825
10°	13960	13864	13790
15°	13899	13813	13738
20°	13829	13740	13639
25°	13732	13639	13481
30°	13583	13487	13293
35°	13383	13266	13076
40°	13077	12938	12703
45°	12545	12325	12072
50°	11606	11326	11104
55°	10129	9901	9691
60°	8536	8464	8296
65°	7383	7412	7355
70°	6782	6817	6817
75°	6513	6513	6559
80°	6126	6195	6126
85°	4933	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.8
10°-20°	407.0	5.1
20°-30°	613.9	7.7
30°-40°	731.5	9.2
40°-50°	721.2	9.1
50°-60°	551.2	6.9
60°-70°	341.1	4.3
70°-80°	193.7	2.4
80°-90°	58.9	0.7
90°-100°	306.9	3.9
100°-110°	873.2	11.0
110°-120°	836.6	10.5
120°-130°	662.1	8.3
130°-140°	531.5	6.7
140°-150°	416.1	5.2
150°-160°	304.4	3.8
160°-170°	188.6	2.4
170°-180°	64.0	0.8
0°-30°	1163.2	14.6
0°-40°	1894.7	23.9
0°-60°	3167.0	39.9
0°-90°	3760.8	47.3
90°-120°	2016.7	25.4
90°-150°	3626.3	45.6
90°-180°	4183.0	52.7
0°-180°	7944.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1512	1496	1500	1495	1493	143
15°	1455	1440	1446	1441	1438	411
25°	1349	1332	1340	1326	1324	621
35°	1188	1174	1178	1162	1161	742
45°	962	949	945	928	925	737
55°	630	620	616	605	602	564
65°	338	336	340	337	337	343
75°	183	183	183	184	184	193
85°	47	49	52	52	52	54
90°	0	0	0	0	0	3
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	

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CATALOG NUMBER: SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.4	1504.4	1504.4	1504.4	1504.4
2.5°	1513.7	1500.5	1504.4	1501.1	1494.0
5°	1512.1	1495.7	1500.5	1495.2	1492.7
7.5°	1500.5	1484.3	1489.1	1483.9	1482.3
10°	1490.1	1474.9	1479.8	1474.5	1472.0
12.5°	1478.7	1462.5	1468.4	1462.1	1459.5
15°	1455.1	1439.9	1446.1	1440.8	1438.3
17.5°	1429.2	1413.0	1419.1	1413.1	1409.8
20°	1408.5	1393.3	1399.4	1390.3	1389.1
22.5°	1385.7	1370.5	1376.6	1364.4	1364.2
25°	1348.9	1332.4	1339.8	1325.5	1324.3
27.5°	1305.1	1289.9	1296.0	1281.5	1279.9
30°	1275.0	1259.8	1266.0	1250.3	1247.8
32.5°	1240.8	1226.6	1231.7	1216.2	1214.6
35°	1188.2	1174.3	1177.8	1162.3	1161.0
37.5°	1128.3	1115.7	1117.7	1100.6	1099.3
40°	1085.8	1073.2	1074.2	1056.0	1054.7
42.5°	1039.2	1026.5	1025.5	1007.3	1006.0
45°	961.5	948.8	944.6	927.7	925.2
47.5°	872.8	860.2	852.3	838.6	836.8
50°	808.6	795.9	789.1	777.4	773.6
52.5°	739.1	726.4	720.7	710.0	706.2
55°	629.7	619.6	615.5	605.1	602.5
57.5°	525.8	519.0	517.8	507.7	506.6
60°	462.6	458.8	458.7	449.6	449.6
62.5°	408.7	405.9	407.9	401.9	400.9
65°	338.2	335.7	339.5	336.9	336.9
67.5°	282.5	282.5	284.8	283.8	283.8
70°	251.4	251.4	252.7	252.7	252.7
72.5°	223.4	222.4	225.7	225.7	224.7
75°	182.7	182.7	182.7	184.0	184.0
77.5°	142.3	142.5	143.6	143.3	142.3
80°	115.3	116.6	116.6	115.3	115.3
82.5°	88.4	89.6	89.7	89.4	88.4
85°	46.6	49.2	51.8	51.8	51.8
87.5°	13.5	17.5	20.7	20.7	19.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)