

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: P523854

Luminaire Tested: **SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523854
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8131.6 lumens
Efficiency: N/A
Efficacy: 108.7 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

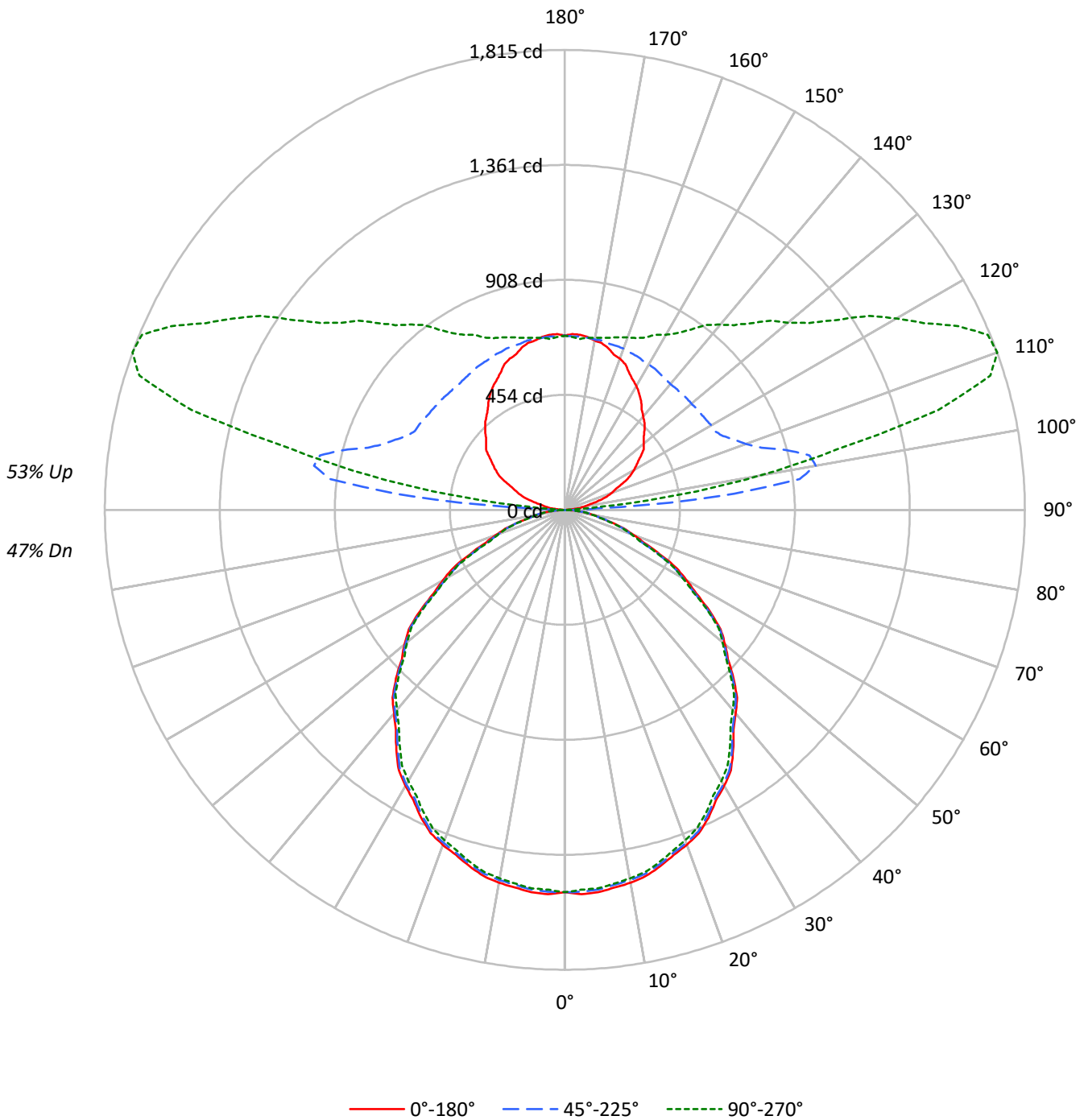
Input Watts (W): 74.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	13920	13920	13920
5°	14022	13937	13888
10°	13998	13899	13837
15°	13906	13830	13754
20°	13813	13736	13632
25°	13649	13556	13420
30°	13397	13326	13157
35°	13046	12957	12794
40°	12629	12550	12406
45°	12285	12198	12077
50°	11843	11767	11654
55°	11231	11081	10996
60°	10223	9931	9881
65°	9007	8632	8601
70°	7777	7456	7456
75°	6695	6598	6506
80°	5903	5972	5834
85°	4615	5039	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	1.8
10°-20°	407.4	5.0
20°-30°	610.2	7.5
30°-40°	715.7	8.8
40°-50°	717.9	8.8
50°-60°	612.5	7.5
60°-70°	399.4	4.9
70°-80°	200.4	2.5
80°-90°	55.5	0.7
90°-100°	313.2	3.9
100°-110°	891.3	11.0
110°-120°	853.9	10.5
120°-130°	675.9	8.3
130°-140°	542.5	6.7
140°-150°	424.7	5.2
150°-160°	310.7	3.8
160°-170°	192.5	2.4
170°-180°	65.3	0.8
0°-30°	1160.2	14.3
0°-40°	1875.9	23.1
0°-60°	3206.3	39.4
0°-90°	3861.6	47.5
90°-120°	2058.5	25.3
90°-150°	3701.5	45.5
90°-180°	4270.0	52.5
0°-180°	8131.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1514	1500	1505	1500	1500	144
15°	1456	1442	1448	1443	1440	411
25°	1341	1325	1332	1320	1318	617
35°	1158	1147	1150	1137	1136	724
45°	942	935	935	926	926	725
55°	698	696	689	685	684	620
65°	413	405	395	393	394	412
75°	188	188	185	184	182	204
85°	44	48	48	48	48	51
90°	0	0	0	0	0	3
95°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	

TEST NUMBER: P523854

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1518.3	1505.9	1508.7	1506.5	1500.3
5°	1514.0	1499.8	1504.8	1499.5	1499.5
7.5°	1503.7	1488.2	1493.1	1487.8	1487.6
10°	1494.2	1478.7	1483.6	1478.3	1477.0
12.5°	1480.4	1464.9	1470.9	1464.6	1464.3
15°	1455.9	1441.6	1447.9	1442.6	1440.0
17.5°	1428.1	1412.6	1420.2	1412.7	1411.7
20°	1406.9	1391.4	1399.0	1388.4	1388.4
22.5°	1381.5	1366.0	1374.7	1360.9	1360.9
25°	1340.8	1325.3	1331.6	1319.6	1318.3
27.5°	1292.4	1277.2	1283.7	1270.2	1269.9
30°	1257.5	1243.3	1250.9	1236.3	1235.0
32.5°	1219.4	1206.2	1211.8	1197.2	1195.9
35°	1158.3	1146.7	1150.4	1137.2	1135.9
37.5°	1094.1	1082.2	1086.4	1075.0	1074.5
40°	1048.6	1040.8	1042.0	1032.7	1030.1
42.5°	1006.3	997.5	998.6	989.3	988.8
45°	941.5	935.0	934.9	925.6	925.6
47.5°	872.7	867.8	866.4	858.7	858.4
50°	825.1	821.2	819.8	813.2	811.9
52.5°	775.4	773.6	769.1	763.5	763.2
55°	698.2	695.6	688.9	684.9	683.6
57.5°	614.3	609.2	601.6	595.9	596.9
60°	554.0	548.9	538.2	535.5	535.5
62.5°	495.9	489.7	478.9	475.3	477.4
65°	412.6	404.8	395.4	392.8	394.0
67.5°	336.9	329.9	319.7	319.7	318.7
70°	288.3	284.4	276.4	276.4	276.4
72.5°	244.9	243.1	237.2	237.2	236.2
75°	187.8	187.8	185.1	183.8	182.5
77.5°	140.7	141.2	139.9	138.5	136.2
80°	111.1	113.7	112.4	111.0	109.8
82.5°	83.6	86.2	85.9	83.6	83.3
85°	43.6	47.5	47.6	47.6	47.6
87.5°	11.6	15.8	16.9	16.9	18.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3

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CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)