

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: P523841

Luminaire Tested: **SQ4-PP3-100U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523841
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-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 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: 7207.6 lumens
Efficiency: N/A
Efficacy: 112.1 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

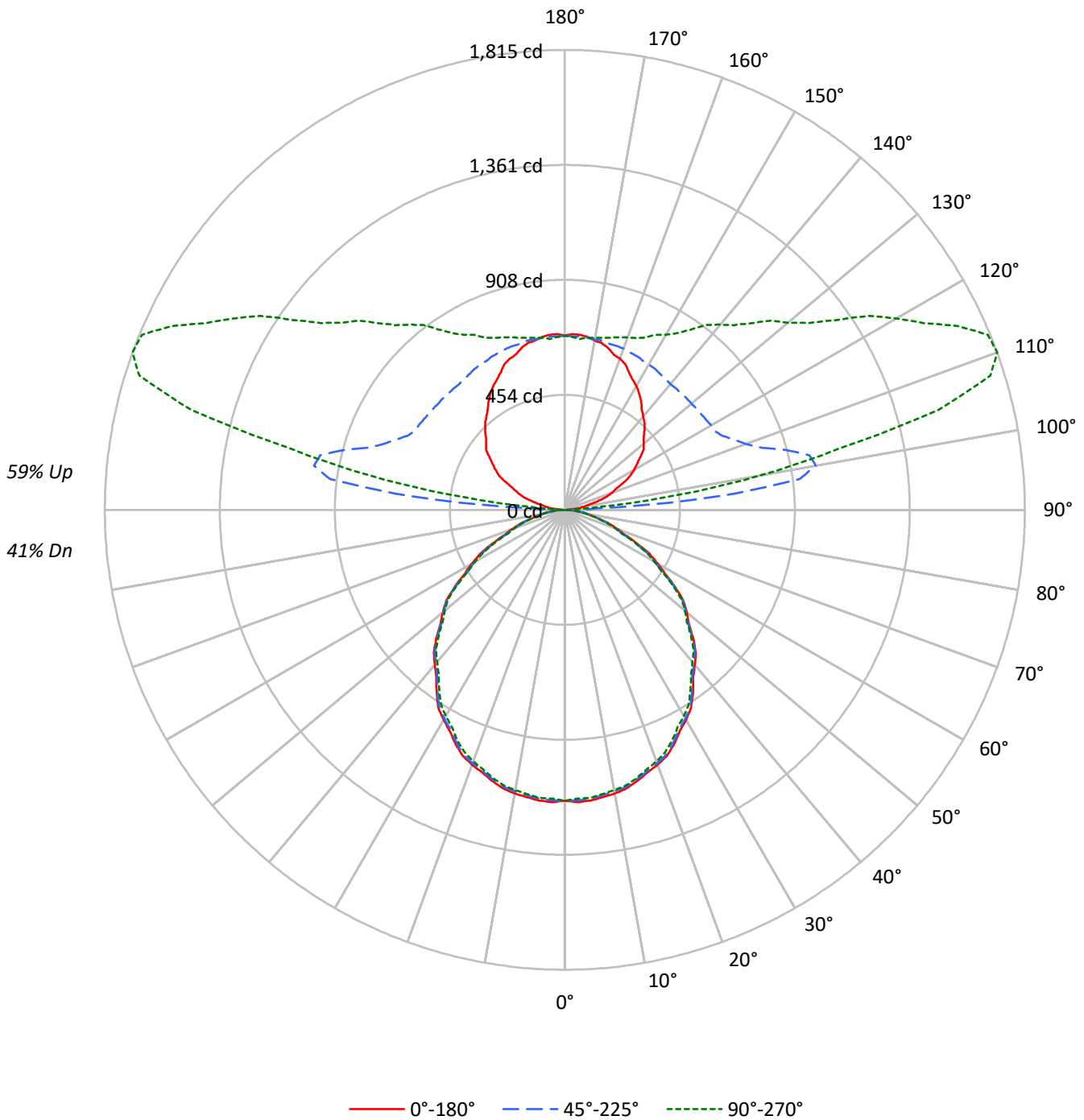
Input Watts (W): 64.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523841

CATALOG NUMBER: SQ4-PP3-100U-075D-92765-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P523841

CATALOG NUMBER: SQ4-PP3-100U-075D-92765-1D-UNV-STD-W-4 (3000K)

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	64	55	54	52	42	41	41	35				
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29				
3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25				
4	73	62	55	49	66	57	51	45	47	42	39	38	35	32	30	27	25	21				
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16				
7	57	45	37	32	52	41	34	30	35	29	25	28	24	21	22	19	17	15				
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	15	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10589	10589	10589
5°	10666	10602	10565
10°	10648	10573	10526
15°	10578	10520	10463
20°	10509	10449	10370
25°	10384	10311	10210
30°	10191	10138	10009
35°	9925	9856	9732
40°	9607	9546	9438
45°	9345	9280	9187
50°	9010	8951	8865
55°	8543	8430	8364
60°	7778	7554	7518
65°	6851	6567	6545
70°	5916	5670	5670
75°	5090	5019	4948
80°	4490	4543	4436
85°	3515	3832	3832



TEST NUMBER: P523841

CATALOG NUMBER: SQ4-PP3-100U-075D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	1.5
10°-20°	309.9	4.3
20°-30°	464.2	6.4
30°-40°	544.4	7.6
40°-50°	546.1	7.6
50°-60°	465.9	6.5
60°-70°	303.8	4.2
70°-80°	152.4	2.1
80°-90°	42.2	0.6
90°-100°	313.2	4.3
100°-110°	891.3	12.4
110°-120°	853.9	11.8
120°-130°	675.9	9.4
130°-140°	542.5	7.5
140°-150°	424.7	5.9
150°-160°	310.7	4.3
160°-170°	192.5	2.7
170°-180°	65.3	0.9
0°-30°	882.6	12.2
0°-40°	1427.0	19.8
0°-60°	2439.0	33.8
0°-90°	2937.5	40.8
90°-120°	2058.5	28.6
90°-150°	3701.5	51.4
90°-180°	4270.0	59.2
0°-180°	7207.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1141	1145	1141	1141	109
15°	1108	1097	1101	1097	1095	312
25°	1020	1008	1013	1004	1003	469
35°	881	872	875	865	864	550
45°	716	711	711	704	704	551
55°	531	529	524	521	520	472
65°	314	308	301	299	300	313
75°	143	143	141	140	139	155
85°	33	36	36	36	36	39
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: P523841

CATALOG NUMBER: SQ4-PP3-100U-075D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.7	1147.7	1147.7	1147.7	1147.7
2.5°	1155.0	1145.5	1147.7	1146.0	1141.3
5°	1151.7	1140.9	1144.7	1140.7	1140.7
7.5°	1143.9	1132.1	1135.8	1131.8	1131.6
10°	1136.6	1124.8	1128.6	1124.6	1123.6
12.5°	1126.2	1114.4	1118.9	1114.1	1113.9
15°	1107.5	1096.7	1101.4	1097.4	1095.4
17.5°	1086.4	1074.6	1080.3	1074.7	1073.9
20°	1070.3	1058.5	1064.2	1056.2	1056.2
22.5°	1050.9	1039.1	1045.7	1035.3	1035.3
25°	1020.0	1008.2	1012.9	1003.8	1002.9
27.5°	983.1	971.5	976.5	966.2	966.0
30°	956.6	945.8	951.6	940.5	939.5
32.5°	927.6	917.6	921.8	910.7	909.7
35°	881.2	872.3	875.1	865.0	864.1
37.5°	832.3	823.2	826.4	817.8	817.4
40°	797.7	791.8	792.6	785.5	783.6
42.5°	765.5	758.8	759.6	752.6	752.2
45°	716.2	711.3	711.2	704.1	704.1
47.5°	663.9	660.1	659.1	653.2	653.0
50°	627.7	624.7	623.6	618.6	617.6
52.5°	589.8	588.5	585.0	580.8	580.6
55°	531.1	529.1	524.1	521.0	520.0
57.5°	467.3	463.4	457.7	453.3	454.1
60°	421.5	417.5	409.4	407.4	407.4
62.5°	377.2	372.5	364.3	361.5	363.1
65°	313.8	307.9	300.8	298.8	299.8
67.5°	256.3	251.0	243.2	243.2	242.4
70°	219.3	216.3	210.2	210.2	210.2
72.5°	186.3	184.9	180.5	180.4	179.7
75°	142.8	142.8	140.8	139.8	138.8
77.5°	107.0	107.4	106.4	105.4	103.6
80°	84.5	86.5	85.5	84.5	83.5
82.5°	63.6	65.5	65.4	63.6	63.4
85°	33.2	36.1	36.2	36.2	36.2
87.5°	8.9	12.0	12.9	12.9	13.7
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

TEST NUMBER: P523841

CATALOG NUMBER: SQ4-PP3-100U-075D-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)