

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: P523946

Luminaire Tested: **SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523946  
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-PP3-150U-075D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 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: 9626.5 lumens  
Efficiency: N/A  
Efficacy: 115.8 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: Semi-Indirect

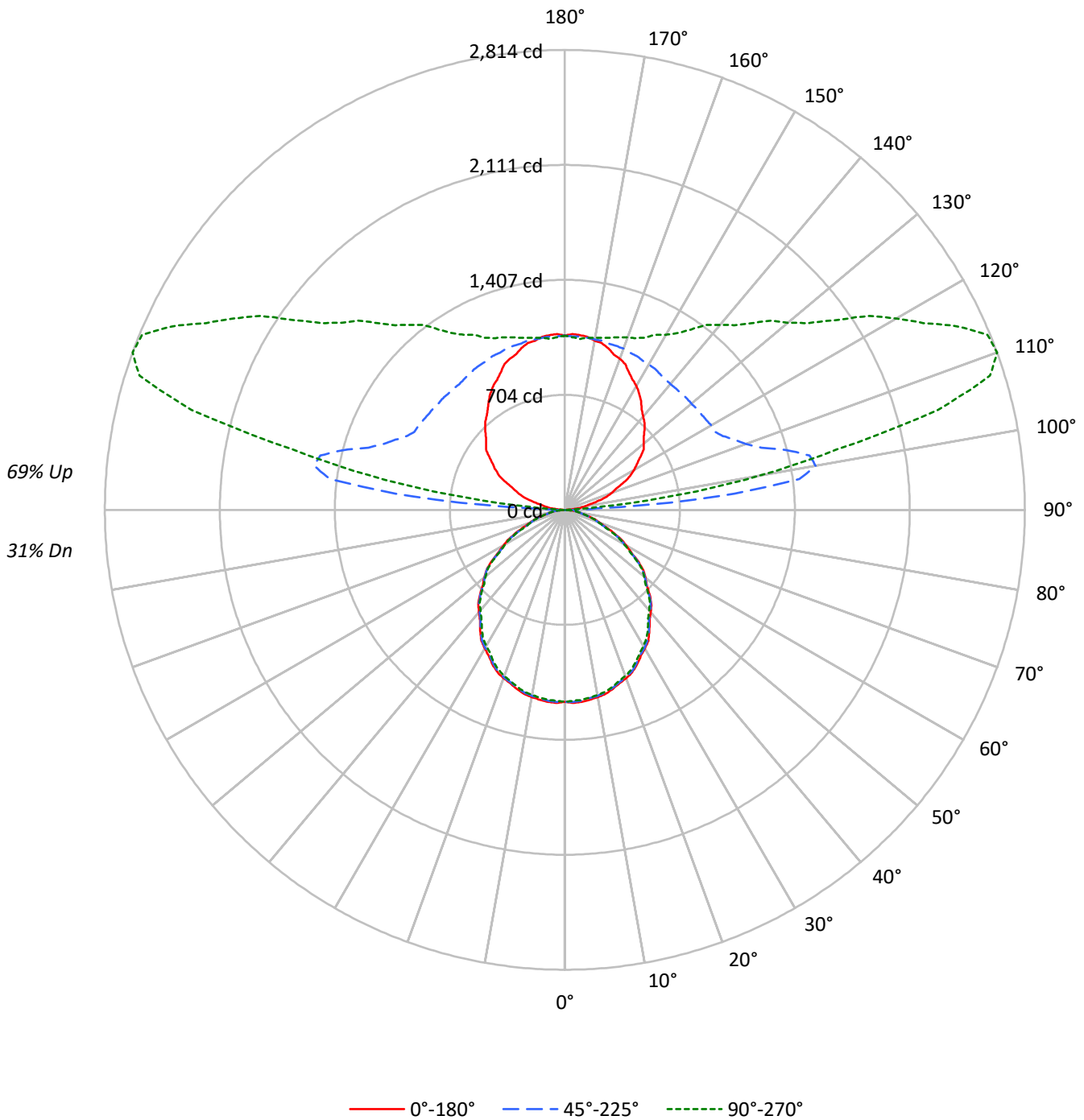
Input Watts (W): 83.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	68	77	71	66	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	49	43	44	39	36	34	31	28	24	22	21	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	10844	10844	10844
5°	10923	10856	10817
10°	10904	10827	10778
15°	10833	10773	10714
20°	10760	10700	10619
25°	10632	10559	10454
30°	10435	10381	10249
35°	10163	10093	9966
40°	9837	9776	9664
45°	9569	9501	9407
50°	9225	9166	9077
55°	8749	8631	8565
60°	7964	7735	7698
65°	7017	6724	6700
70°	6056	5808	5808
75°	5215	5140	5065
80°	4596	4654	4543
85°	3599	3927	3927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.1	1.2
10°-20°	317.3	3.3
20°-30°	475.3	4.9
30°-40°	557.5	5.8
40°-50°	559.2	5.8
50°-60°	477.1	5.0
60°-70°	311.1	3.2
70°-80°	156.1	1.6
80°-90°	43.2	0.4
90°-100°	485.5	5.0
100°-110°	1381.5	14.4
110°-120°	1323.6	13.7
120°-130°	1047.6	10.9
130°-140°	840.8	8.7
140°-150°	658.3	6.8
150°-160°	481.7	5.0
160°-170°	298.3	3.1
170°-180°	101.2	1.1
0°-30°	903.7	9.4
0°-40°	1461.2	15.2
0°-60°	2497.6	25.9
0°-90°	3008.0	31.2
90°-120°	3190.6	33.1
90°-150°	5737.2	59.6
90°-180°	6618.0	68.7
0°-180°	9626.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1179	1168	1172	1168	1168	112
15°	1134	1123	1128	1124	1122	320
25°	1044	1032	1037	1028	1027	480
35°	902	893	896	886	885	564
45°	733	728	728	721	721	565
55°	544	542	537	534	532	483
65°	321	315	308	306	307	321
75°	146	146	144	143	142	159
85°	34	37	37	37	37	40
90°	0	0	0	0	0	3
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1182.7	1173.0	1175.3	1173.5	1168.7
5°	1179.4	1168.3	1172.2	1168.0	1168.0
7.5°	1171.3	1159.3	1163.1	1159.0	1158.8
10°	1163.9	1151.8	1155.7	1151.5	1150.5
12.5°	1153.2	1141.1	1145.8	1140.8	1140.6
15°	1134.1	1123.0	1127.9	1123.7	1121.7
17.5°	1112.4	1100.3	1106.2	1100.5	1099.6
20°	1095.9	1083.9	1089.8	1081.5	1081.5
22.5°	1076.2	1064.1	1070.8	1060.1	1060.1
25°	1044.4	1032.4	1037.2	1027.9	1026.9
27.5°	1006.7	994.9	999.9	989.4	989.2
30°	979.5	968.5	974.4	963.0	962.0
32.5°	949.9	939.6	943.9	932.6	931.5
35°	902.3	893.2	896.1	885.8	884.8
37.5°	852.2	843.0	846.3	837.4	837.0
40°	816.8	810.8	811.7	804.4	802.4
42.5°	783.8	777.0	777.9	770.7	770.2
45°	733.4	728.3	728.2	721.0	721.0
47.5°	679.8	676.0	674.9	668.9	668.7
50°	642.7	639.7	638.6	633.4	632.4
52.5°	604.0	602.6	599.1	594.7	594.5
55°	543.9	541.8	536.6	533.5	532.5
57.5°	478.5	474.5	468.7	464.1	465.0
60°	431.6	427.5	419.2	417.2	417.2
62.5°	386.3	381.4	373.1	370.2	371.8
65°	321.4	315.3	308.0	305.9	306.9
67.5°	262.4	257.0	249.1	249.0	248.2
70°	224.5	221.5	215.3	215.3	215.3
72.5°	190.8	189.3	184.8	184.8	184.0
75°	146.3	146.3	144.2	143.1	142.1
77.5°	109.6	110.0	109.0	107.9	106.1
80°	86.5	88.5	87.6	86.5	85.5
82.5°	65.1	67.1	67.0	65.1	64.9
85°	34.0	37.0	37.1	37.1	37.1
87.5°	9.1	12.3	13.2	13.2	14.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)