

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: P562091

Luminaire Tested: **SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562091  
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-PR1-150U-050D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 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: 8615.1 lumens  
Efficiency: N/A  
Efficacy: 119.8 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: Semi-Indirect

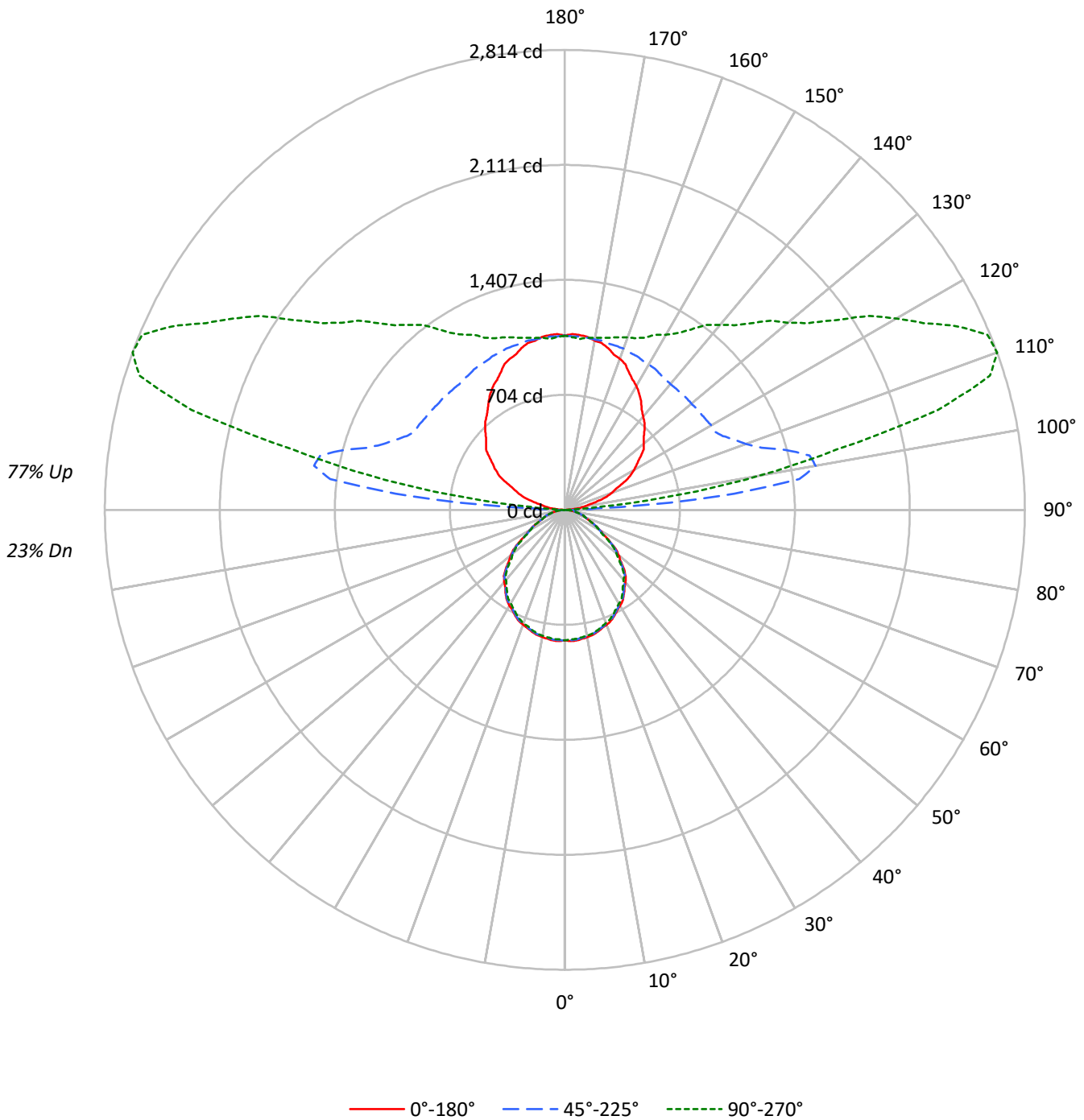
Input Watts (W): 71.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	64	60	53	49	47	38	36	34	25	24	23	17
3	76	68	61	55	68	60	54	50	47	43	39	34	31	29	22	21	19	14
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	20	18	17	12
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10	8
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	11	9	7
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	6

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

	0°	45°	90°
0°	7369	7369	7369
5°	7435	7378	7340
10°	7411	7360	7322
15°	7379	7333	7294
20°	7342	7295	7241
25°	7290	7241	7158
30°	7211	7160	7058
35°	7105	7043	6943
40°	6943	6869	6745
45°	6660	6543	6409
50°	6162	6013	5895
55°	5377	5257	5146
60°	4532	4493	4405
65°	3919	3934	3906
70°	3601	3617	3617
75°	3458	3458	3483
80°	3252	3289	3252
85°	2625	2911	2911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	0.9
10°-20°	216.1	2.5
20°-30°	325.9	3.8
30°-40°	388.3	4.5
40°-50°	382.9	4.4
50°-60°	292.6	3.4
60°-70°	181.1	2.1
70°-80°	102.8	1.2
80°-90°	31.3	0.4
90°-100°	485.5	5.6
100°-110°	1381.5	16.0
110°-120°	1323.6	15.4
120°-130°	1047.6	12.2
130°-140°	840.8	9.8
140°-150°	658.3	7.6
150°-160°	481.7	5.6
160°-170°	298.3	3.5
170°-180°	101.2	1.2
0°-30°	617.6	7.2
0°-40°	1005.9	11.7
0°-60°	1681.4	19.5
0°-90°	1996.6	23.2
90°-120°	3190.6	37.0
90°-150°	5737.2	66.6
90°-180°	6618.0	76.8
0°-180°	8615.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	803	794	797	794	792	76
15°	772	764	768	765	764	218
25°	716	707	711	704	703	330
35°	631	623	625	617	616	394
45°	510	504	502	492	491	391
55°	334	329	327	321	320	300
65°	180	178	180	179	179	182
75°	97	97	97	98	98	102
85°	25	26	28	28	28	29
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°	798.7	798.7	798.7	798.7	798.7
2.5°	803.6	796.6	798.7	796.9	793.2
5°	802.8	794.1	796.6	793.8	792.5
7.5°	796.6	788.0	790.6	787.8	787.0
10°	791.1	783.0	785.6	782.8	781.5
12.5°	785.1	776.5	779.6	776.2	774.9
15°	772.5	764.5	767.7	764.9	763.6
17.5°	758.8	750.2	753.4	750.2	748.5
20°	747.8	739.7	743.0	738.1	737.5
22.5°	735.7	727.6	730.9	724.4	724.2
25°	716.1	707.4	711.3	703.7	703.1
27.5°	692.9	684.8	688.1	680.3	679.5
30°	676.9	668.8	672.1	663.8	662.5
32.5°	658.8	651.2	653.9	645.7	644.9
35°	630.8	623.4	625.3	617.1	616.4
37.5°	599.0	592.3	593.4	584.3	583.6
40°	576.5	569.8	570.3	560.6	560.0
42.5°	551.7	545.0	544.4	534.8	534.1
45°	510.4	503.7	501.5	492.5	491.2
47.5°	463.4	456.7	452.5	445.2	444.3
50°	429.3	422.5	418.9	412.7	410.7
52.5°	392.4	385.7	382.6	376.9	374.9
55°	334.3	329.0	326.8	321.2	319.9
57.5°	279.2	275.5	274.9	269.5	269.0
60°	245.6	243.6	243.5	238.7	238.7
62.5°	217.0	215.5	216.6	213.4	212.8
65°	179.5	178.2	180.2	178.9	178.9
67.5°	150.0	150.0	151.2	150.7	150.7
70°	133.5	133.5	134.1	134.1	134.1
72.5°	118.6	118.1	119.8	119.8	119.3
75°	97.0	97.0	97.0	97.7	97.7
77.5°	75.5	75.7	76.2	76.1	75.5
80°	61.2	61.9	61.9	61.2	61.2
82.5°	46.9	47.6	47.6	47.5	46.9
85°	24.8	26.1	27.5	27.5	27.5
87.5°	7.2	9.3	11.0	11.0	10.5
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)