

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: P562468

Luminaire Tested: **SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562468
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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

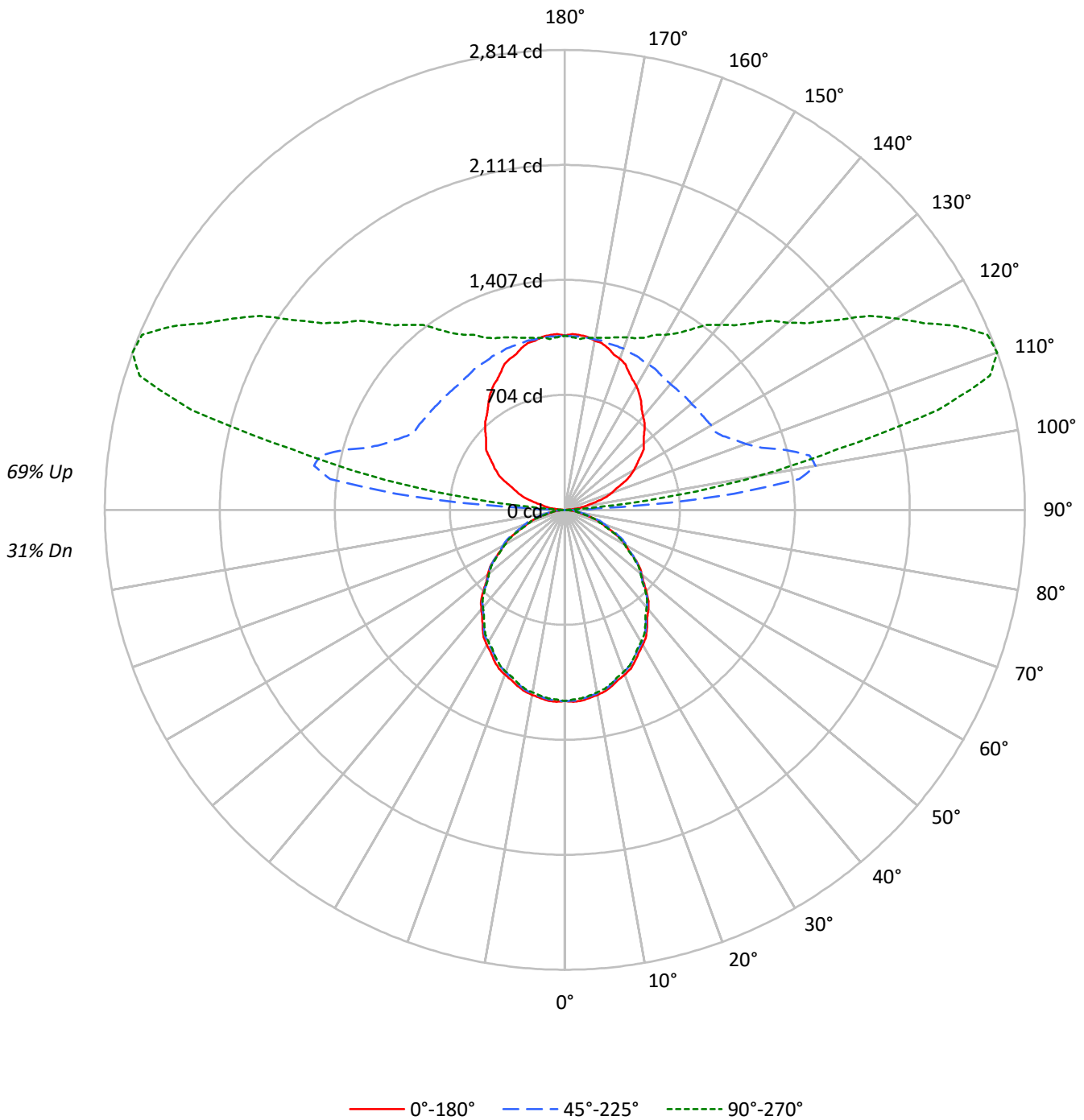
Lumens per Lamp: N/A
Luminaire Lumens: 9593.6 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	89	86	82	84	81	77	75	64	62	60	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10788	10788	10788
5°	10858	10773	10725
10°	10772	10685	10627
15°	10658	10539	10500
20°	10530	10368	10349
25°	10384	10194	10163
30°	10163	10010	9944
35°	9875	9736	9677
40°	9567	9418	9381
45°	9195	9073	9033
50°	8813	8740	8681
55°	8401	8401	8270
60°	7890	8042	7756
65°	7220	7580	7041
70°	6364	6976	6196
75°	5436	6242	5290
80°	4213	5255	4272
85°	2731	4033	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	1.1
10°-20°	310.9	3.2
20°-30°	461.1	4.8
30°-40°	539.6	5.6
40°-50°	537.2	5.6
50°-60°	463.9	4.8
60°-70°	333.9	3.5
70°-80°	175.1	1.8
80°-90°	43.4	0.5
90°-100°	485.5	5.1
100°-110°	1381.5	14.4
110°-120°	1323.6	13.8
120°-130°	1047.6	10.9
130°-140°	840.8	8.8
140°-150°	658.3	6.9
150°-160°	481.7	5.0
160°-170°	298.3	3.1
170°-180°	101.2	1.1
0°-30°	882.1	9.2
0°-40°	1421.7	14.8
0°-60°	2422.7	25.3
0°-90°	2975.1	31.0
90°-120°	3190.6	33.3
90°-150°	5737.2	59.8
90°-180°	6618.0	69.0
0°-180°	9593.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1172	1159	1163	1160	1158	111
15°	1116	1102	1103	1101	1099	314
25°	1020	1003	1001	995	998	469
35°	877	865	864	856	859	548
45°	705	699	695	693	692	544
55°	522	521	522	515	514	466
65°	331	341	347	334	322	328
75°	152	167	175	164	148	163
85°	26	34	38	36	34	34
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°	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1175.9	1166.3	1169.3	1166.7	1161.1
5°	1172.4	1159.3	1163.2	1160.0	1158.0
7.5°	1160.5	1148.4	1151.2	1147.9	1146.7
10°	1149.8	1137.7	1140.5	1136.3	1134.3
12.5°	1137.4	1124.5	1127.3	1123.2	1122.0
15°	1115.8	1101.7	1103.4	1101.3	1099.3
17.5°	1090.6	1076.3	1076.6	1073.3	1072.9
20°	1072.5	1057.4	1056.0	1051.9	1054.0
22.5°	1052.7	1036.8	1035.4	1029.7	1032.5
25°	1020.0	1002.8	1001.4	995.3	998.3
27.5°	982.0	965.1	965.2	956.6	959.8
30°	954.0	937.9	939.6	929.4	933.4
32.5°	924.4	909.8	910.8	900.5	904.6
35°	876.8	864.7	864.4	856.2	859.2
37.5°	828.1	817.4	815.8	811.0	811.8
40°	794.3	785.3	782.0	778.9	778.9
42.5°	758.9	750.6	747.4	745.1	744.3
45°	704.7	698.7	695.4	693.3	692.3
47.5°	651.1	645.5	642.7	641.2	640.2
50°	614.0	610.0	608.9	605.8	604.8
52.5°	576.9	574.5	573.4	569.5	568.5
55°	522.3	521.3	522.3	515.1	514.1
57.5°	465.5	467.1	470.4	460.7	458.3
60°	427.6	431.6	435.8	424.4	420.3
62.5°	388.8	395.3	401.2	388.1	382.4
65°	330.7	340.8	347.2	333.6	322.5
67.5°	274.7	287.2	294.9	280.2	267.7
70°	235.9	250.0	258.6	243.9	229.7
72.5°	202.1	217.9	224.8	210.9	196.8
75°	152.5	166.6	175.1	163.5	148.4
77.5°	108.2	121.5	128.6	118.4	105.9
80°	79.3	93.4	98.9	90.4	80.4
82.5°	56.3	67.9	71.7	66.6	59.8
85°	25.8	33.8	38.1	36.0	34.0
87.5°	6.6	12.2	15.7	15.7	16.5
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)