

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: P523959

Luminaire Tested: **SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523959
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-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 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: 10572.7 lumens
Efficiency: N/A
Efficacy: 113.0 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

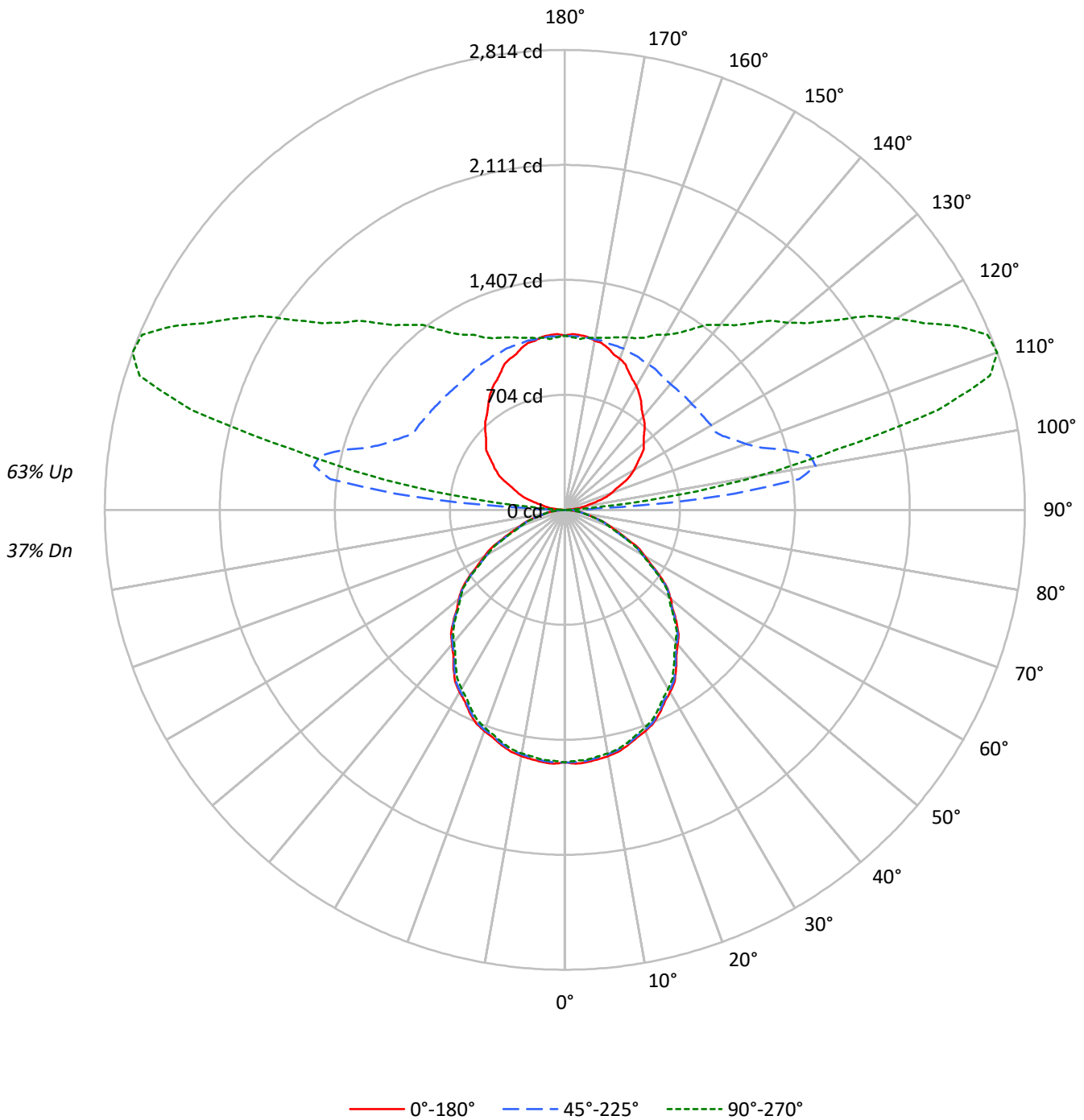
Input Watts (W): 93.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	38	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14254	14254	14254
5°	14359	14271	14221
10°	14335	14233	14170
15°	14240	14162	14084
20°	14145	14066	13959
25°	13977	13880	13743
30°	13719	13646	13473
35°	13359	13268	13100
40°	12932	12851	12704
45°	12579	12491	12367
50°	12127	12050	11933
55°	11499	11348	11260
60°	10468	10169	10119
65°	9224	8839	8809
70°	7963	7634	7634
75°	6855	6759	6662
80°	6041	6115	5972
85°	4732	5155	5155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	1.4
10°-20°	417.1	3.9
20°-30°	624.8	5.9
30°-40°	732.9	6.9
40°-50°	735.2	7.0
50°-60°	627.2	5.9
60°-70°	409.0	3.9
70°-80°	205.2	1.9
80°-90°	56.8	0.5
90°-100°	485.5	4.6
100°-110°	1381.5	13.1
110°-120°	1323.6	12.5
120°-130°	1047.6	9.9
130°-140°	840.8	8.0
140°-150°	658.3	6.2
150°-160°	481.7	4.6
160°-170°	298.3	2.8
170°-180°	101.2	1.0
0°-30°	1188.0	11.2
0°-40°	1920.9	18.2
0°-60°	3283.2	31.1
0°-90°	3954.2	37.4
90°-120°	3190.6	30.2
90°-150°	5737.2	54.3
90°-180°	6618.0	62.6
0°-180°	10572.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1550	1536	1541	1536	1536	147
15°	1491	1476	1483	1477	1474	421
25°	1373	1357	1364	1351	1350	631
35°	1186	1174	1178	1164	1163	741
45°	964	958	957	948	948	742
55°	715	712	706	701	700	635
65°	422	414	405	402	404	422
75°	192	192	190	188	187	209
85°	45	49	49	49	49	52
90°	0	0	0	0	0	4
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°	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1554.7	1542.0	1545.0	1542.6	1536.3
5°	1550.4	1535.8	1540.9	1535.5	1535.5
7.5°	1539.8	1523.9	1529.0	1523.6	1523.3
10°	1530.1	1514.2	1519.2	1513.8	1512.5
12.5°	1516.0	1500.1	1506.2	1499.7	1499.5
15°	1490.8	1476.2	1482.7	1477.2	1474.5
17.5°	1462.4	1446.5	1454.2	1446.6	1445.6
20°	1440.7	1424.8	1432.6	1421.7	1421.7
22.5°	1414.7	1398.8	1407.7	1393.6	1393.6
25°	1373.0	1357.1	1363.5	1351.3	1350.0
27.5°	1323.4	1307.8	1314.5	1300.7	1300.4
30°	1287.7	1273.1	1280.9	1266.0	1264.7
32.5°	1248.7	1235.2	1240.8	1225.9	1224.6
35°	1186.1	1174.2	1178.0	1164.4	1163.1
37.5°	1120.3	1108.1	1112.5	1100.8	1100.3
40°	1073.7	1065.8	1067.0	1057.4	1054.8
42.5°	1030.4	1021.4	1022.6	1013.1	1012.5
45°	964.1	957.5	957.3	947.8	947.8
47.5°	893.7	888.6	887.2	879.3	879.0
50°	844.9	840.9	839.5	832.7	831.4
52.5°	794.0	792.2	787.5	781.8	781.5
55°	714.9	712.3	705.5	701.4	700.0
57.5°	629.1	623.8	616.1	610.2	611.2
60°	567.3	562.0	551.1	548.4	548.4
62.5°	507.8	501.4	490.4	486.7	488.8
65°	422.5	414.5	404.9	402.2	403.5
67.5°	345.0	337.9	327.4	327.4	326.3
70°	295.2	291.2	283.0	283.0	283.0
72.5°	250.8	248.9	242.9	242.9	241.8
75°	192.3	192.3	189.6	188.2	186.9
77.5°	144.1	144.6	143.3	141.8	139.5
80°	113.7	116.4	115.1	113.7	112.4
82.5°	85.6	88.2	88.0	85.6	85.3
85°	44.7	48.7	48.7	48.7	48.7
87.5°	11.9	16.2	17.3	17.4	18.4
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)