

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: P523957

Luminaire Tested: **SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523957
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10115.2 lumens
Efficiency: N/A
Efficacy: 108.4 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

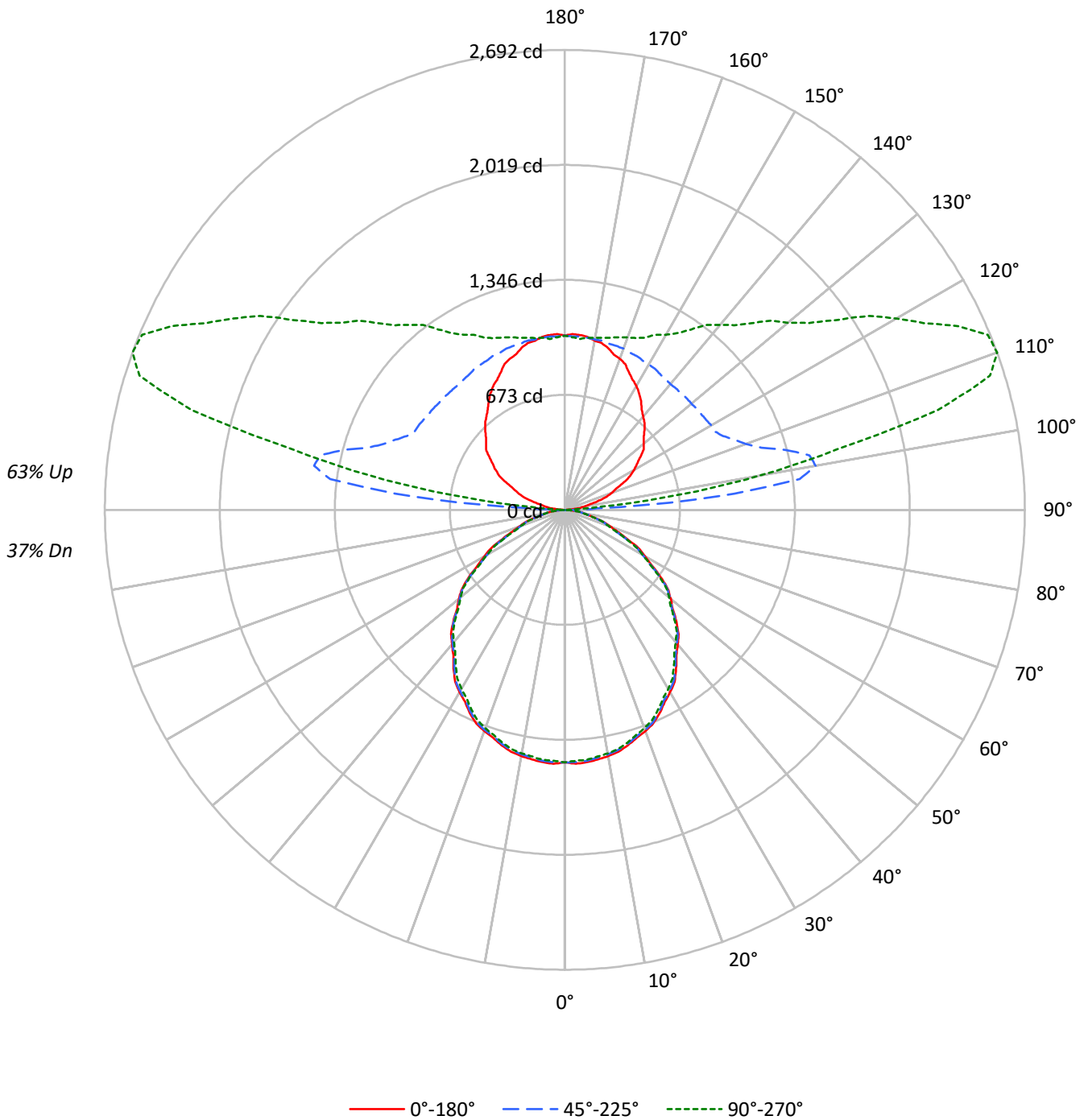
Input Watts (W): 93.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	13637	13637	13637
5°	13738	13653	13605
10°	13715	13617	13556
15°	13624	13549	13475
20°	13534	13457	13355
25°	13372	13280	13148
30°	13125	13056	12891
35°	12781	12694	12534
40°	12373	12294	12155
45°	12035	11950	11832
50°	11603	11529	11417
55°	11002	10856	10772
60°	10016	9728	9682
65°	8824	8455	8427
70°	7618	7302	7302
75°	6559	6466	6374
80°	5781	5850	5712
85°	4520	4933	4933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	1.4
10°-20°	399.1	3.9
20°-30°	597.8	5.9
30°-40°	701.2	6.9
40°-50°	703.4	7.0
50°-60°	600.0	5.9
60°-70°	391.3	3.9
70°-80°	196.3	1.9
80°-90°	54.3	0.5
90°-100°	464.5	4.6
100°-110°	1321.7	13.1
110°-120°	1266.3	12.5
120°-130°	1002.2	9.9
130°-140°	804.5	8.0
140°-150°	629.8	6.2
150°-160°	460.8	4.6
160°-170°	285.4	2.8
170°-180°	96.9	1.0
0°-30°	1136.6	11.2
0°-40°	1837.8	18.2
0°-60°	3141.2	31.1
0°-90°	3783.1	37.4
90°-120°	3052.5	30.2
90°-150°	5489.0	54.3
90°-180°	6332.0	62.6
0°-180°	10115.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1483	1469	1474	1469	1469	141
15°	1426	1412	1418	1413	1411	402
25°	1314	1298	1304	1293	1292	604
35°	1135	1123	1127	1114	1113	709
45°	922	916	916	907	907	710
55°	684	682	675	671	670	608
65°	404	397	387	385	386	403
75°	184	184	181	180	179	200
85°	43	46	47	47	47	50
90°	0	0	0	0	0	4
95°	50	200	899	311	192	58
105°	205	312	1347	2379	2262	217
115°	382	461	1021	2164	2541	376
125°	539	598	975	1618	1934	482
135°	659	714	963	1366	1545	508
145°	777	817	971	1183	1289	485
155°	888	908	994	1069	1112	410
165°	981	984	1006	1028	1043	276
175°	1027	1022	1018	1012	1004	97
180°	1019	1019	1019	1019	1019	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1487.4	1475.3	1478.1	1475.9	1469.8
5°	1483.3	1469.4	1474.2	1469.0	1469.0
7.5°	1473.2	1458.0	1462.8	1457.6	1457.4
10°	1463.9	1448.7	1453.5	1448.3	1447.0
12.5°	1450.4	1435.2	1441.1	1434.8	1434.6
15°	1426.3	1412.4	1418.5	1413.3	1410.7
17.5°	1399.1	1383.9	1391.3	1384.0	1383.0
20°	1378.4	1363.2	1370.6	1360.2	1360.2
22.5°	1353.5	1338.3	1346.8	1333.3	1333.3
25°	1313.6	1298.4	1304.5	1292.8	1291.6
27.5°	1266.2	1251.2	1257.6	1244.4	1244.2
30°	1232.0	1218.0	1225.5	1211.2	1210.0
32.5°	1194.7	1181.7	1187.2	1172.9	1171.6
35°	1134.8	1123.4	1127.0	1114.1	1112.8
37.5°	1071.9	1060.2	1064.3	1053.2	1052.7
40°	1027.3	1019.7	1020.8	1011.7	1009.2
42.5°	985.8	977.2	978.3	969.2	968.7
45°	922.4	916.0	915.9	906.8	906.8
47.5°	855.0	850.2	848.8	841.3	841.0
50°	808.4	804.6	803.2	796.7	795.4
52.5°	759.7	757.9	753.4	748.0	747.7
55°	684.0	681.5	674.9	671.0	669.7
57.5°	601.9	596.8	589.4	583.8	584.8
60°	542.8	537.7	527.2	524.7	524.7
62.5°	485.8	479.7	469.2	465.6	467.7
65°	404.2	396.6	387.3	384.8	386.0
67.5°	330.1	323.2	313.2	313.2	312.2
70°	282.4	278.6	270.7	270.7	270.7
72.5°	239.9	238.1	232.4	232.4	231.4
75°	184.0	184.0	181.4	180.0	178.8
77.5°	137.8	138.3	137.1	135.7	133.4
80°	108.8	111.4	110.1	108.8	107.5
82.5°	81.9	84.4	84.2	81.9	81.6
85°	42.7	46.5	46.6	46.6	46.6
87.5°	11.4	15.5	16.6	16.6	17.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.5	82.2	190.7	55.5	41.9
95°	50.4	200.1	899.2	311.2	191.9
97.5°	92.6	234.4	1384.9	991.0	679.1
100°	122.1	254.7	1490.3	1509.6	1162.8
102.5°	154.7	276.7	1467.1	1932.3	1629.5
105°	205.4	311.5	1346.9	2379.1	2261.7
107.5°	257.0	352.1	1206.6	2505.1	2609.7
110°	292.6	381.7	1126.0	2456.9	2691.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.7	411.3	1071.7	2342.9	2677.9
115°	381.8	461.4	1021.3	2163.6	2540.7
117.5°	430.2	504.9	991.5	1967.6	2367.1
120°	469.0	531.5	988.4	1855.6	2238.4
122.5°	500.0	562.5	980.6	1757.3	2112.8
125°	538.8	597.5	974.8	1617.7	1934.1
127.5°	581.0	636.0	971.7	1534.2	1795.0
130°	602.7	657.7	967.1	1476.1	1703.5
132.5°	626.0	679.4	967.1	1430.7	1639.9
135°	658.9	713.9	963.2	1366.5	1544.6
137.5°	689.9	743.4	962.8	1312.0	1465.9
140°	713.2	768.1	961.3	1266.9	1414.7
142.5°	739.5	785.4	965.9	1230.9	1363.6
145°	777.1	816.9	970.9	1182.7	1288.8
147.5°	809.3	848.0	979.5	1133.9	1225.6
150°	837.2	863.7	982.6	1117.8	1182.2
152.5°	858.9	887.0	985.7	1095.9	1155.8
155°	887.6	908.5	994.2	1068.8	1112.4
157.5°	923.3	935.8	996.1	1056.5	1087.6
160°	941.9	951.3	1003.9	1047.1	1073.7
162.5°	952.7	963.7	1005.4	1039.2	1059.7
165°	980.6	984.4	1005.8	1027.5	1042.6
167.5°	999.6	996.2	1014.7	1024.6	1030.6
170°	1005.8	1003.9	1011.6	1013.7	1021.3
172.5°	1019.8	1013.3	1016.3	1010.6	1016.7
175°	1027.1	1021.5	1017.5	1011.5	1003.9
177.5°	1030.2	1021.1	1016.3	1010.1	1011.6
180°	1019.4	1019.4	1019.4	1019.4	1019.4

(END OF REPORT)