

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: P563787

Luminaire Tested: **SQ4-PP3-150U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563787
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

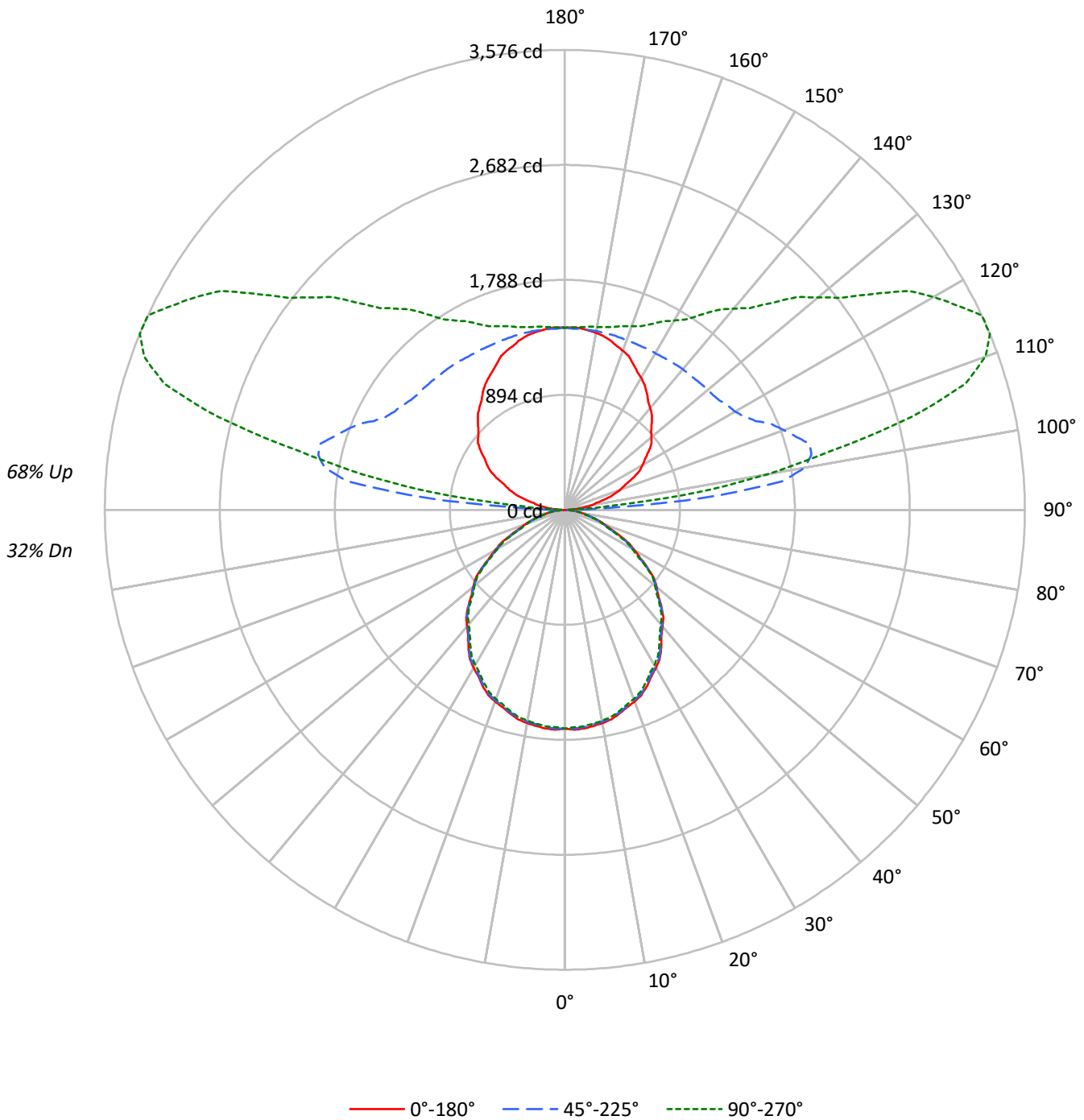
Lumens per Lamp: N/A
Luminaire Lumens: 13482.9 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10436
10°	10520	10445	10399
15°	10450	10393	10337
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9324
45°	9232	9167	9076
50°	8900	8844	8758
55°	8439	8328	8264
60°	7684	7463	7426
65°	6769	6487	6465
70°	5843	5602	5602
75°	5031	4960	4888
80°	4435	4488	4382
85°	3472	3790	3790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.2
10°-20°	459.2	3.4
20°-30°	687.8	5.1
30°-40°	806.8	6.0
40°-50°	809.3	6.0
50°-60°	690.4	5.1
60°-70°	450.3	3.3
70°-80°	225.9	1.7
80°-90°	65.5	0.5
90°-100°	657.9	4.9
100°-110°	1778.8	13.2
110°-120°	1870.1	13.9
120°-130°	1519.0	11.3
130°-140°	1191.6	8.8
140°-150°	914.5	6.8
150°-160°	657.7	4.9
160°-170°	401.8	3.0
170°-180°	135.5	1.0
0°-30°	1307.9	9.7
0°-40°	2114.6	15.7
0°-60°	3614.4	26.8
0°-90°	4356.0	32.3
90°-120°	4306.8	31.9
90°-150°	7931.9	58.8
90°-180°	9127.0	67.7
0°-180°	13482.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1707	1691	1696	1690	1690	162
15°	1641	1625	1632	1626	1623	463
25°	1512	1494	1501	1488	1486	695
35°	1306	1293	1297	1282	1280	816
45°	1061	1054	1054	1043	1043	817
55°	787	784	777	772	771	699
65°	465	456	446	443	444	464
75°	212	212	209	207	206	230
85°	49	54	54	54	54	58
90°	3	9	20	21	20	9
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1711.5	1697.5	1700.8	1698.2	1691.2
5°	1706.7	1690.7	1696.3	1690.3	1690.3
7.5°	1695.1	1677.6	1683.2	1677.2	1676.9
10°	1684.4	1666.9	1672.4	1666.5	1665.0
12.5°	1668.9	1651.4	1658.1	1651.0	1650.7
15°	1641.1	1625.1	1632.2	1626.2	1623.3
17.5°	1609.8	1592.4	1600.9	1592.5	1591.4
20°	1586.0	1568.5	1577.0	1565.1	1565.1
22.5°	1557.4	1539.9	1549.6	1534.1	1534.1
25°	1511.5	1494.0	1501.0	1487.6	1486.1
27.5°	1456.9	1439.7	1447.1	1431.9	1431.6
30°	1417.6	1401.5	1410.1	1393.7	1392.2
32.5°	1374.6	1359.8	1366.0	1349.6	1348.1
35°	1305.8	1292.6	1296.8	1281.9	1280.4
37.5°	1233.3	1219.9	1224.7	1211.8	1211.3
40°	1182.0	1173.3	1174.6	1164.1	1161.2
42.5°	1134.3	1124.4	1125.7	1115.2	1114.7
45°	1061.3	1054.0	1053.8	1043.4	1043.4
47.5°	983.8	978.3	976.6	968.0	967.7
50°	930.1	925.8	924.2	916.7	915.2
52.5°	874.1	872.0	866.9	860.7	860.4
55°	787.0	784.1	776.6	772.1	770.6
57.5°	692.5	686.7	678.2	671.7	672.9
60°	624.6	618.7	606.7	603.7	603.7
62.5°	559.0	552.0	539.9	535.8	538.1
65°	465.1	456.3	445.7	442.7	444.2
67.5°	379.8	371.9	360.4	360.4	359.2
70°	324.9	320.6	311.5	311.5	311.5
72.5°	276.1	274.0	267.4	267.4	266.2
75°	211.7	211.7	208.7	207.2	205.7
77.5°	158.6	159.2	157.7	156.2	153.5
80°	125.2	128.1	126.7	125.2	123.7
82.5°	94.2	97.1	96.9	94.2	93.9
85°	49.2	53.6	53.7	53.7	53.7
87.5°	13.7	19.6	23.0	23.4	24.2
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)