

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: P563783

Luminaire Tested: **SQ4-PP3-150U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563783
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

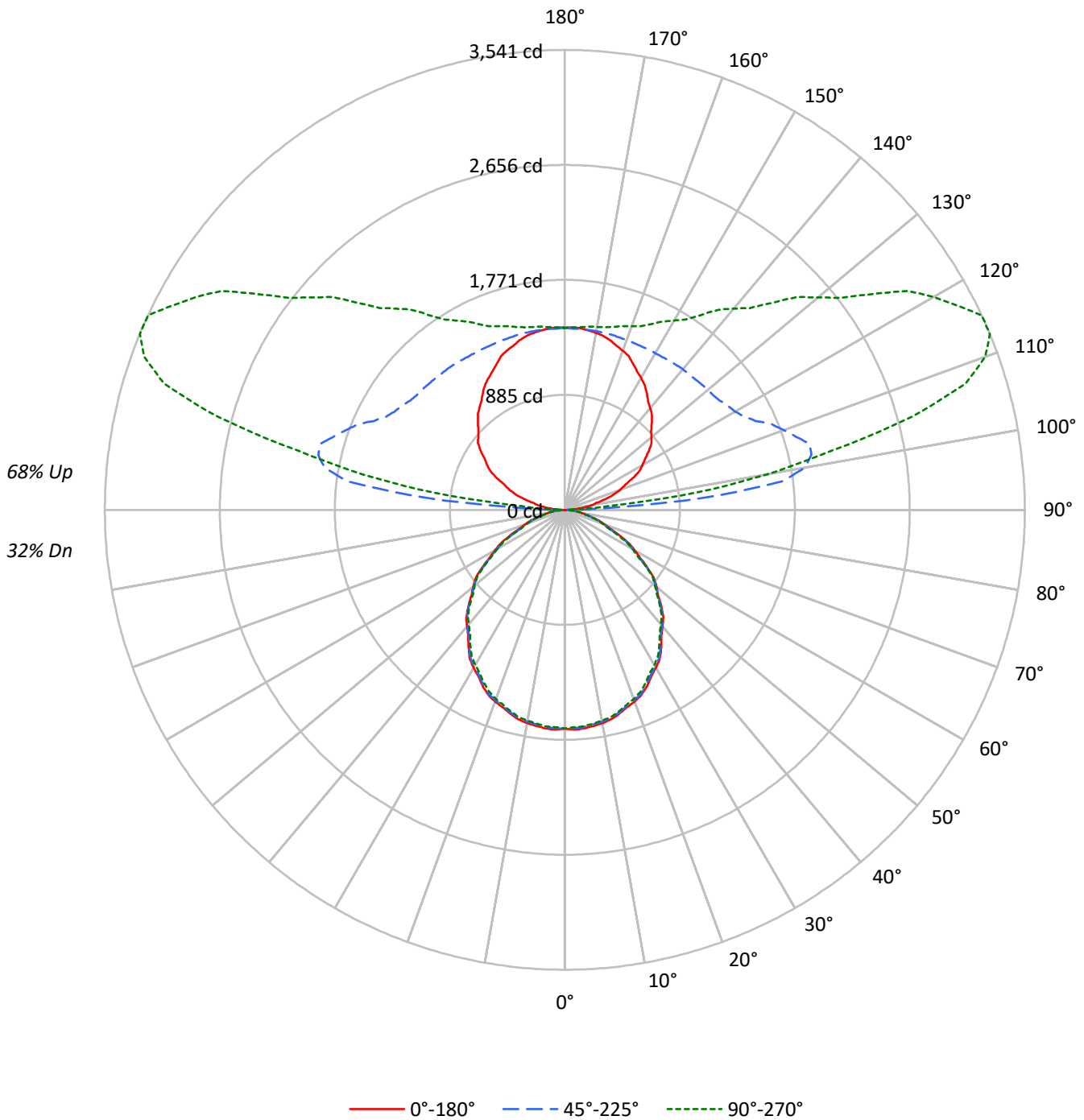
Lumens per Lamp: N/A
Luminaire Lumens: 13348.5 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10086	9985
30°	9967	9916	9789
35°	9707	9640	9519
40°	9397	9337	9230
45°	9140	9076	8986
50°	8812	8756	8670
55°	8356	8245	8182
60°	7606	7388	7353
65°	6701	6421	6401
70°	5785	5546	5546
75°	4981	4910	4841
80°	4392	4442	4339
85°	3437	3747	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.2
10°-20°	454.6	3.4
20°-30°	681.0	5.1
30°-40°	798.8	6.0
40°-50°	801.2	6.0
50°-60°	683.5	5.1
60°-70°	445.8	3.3
70°-80°	223.6	1.7
80°-90°	64.8	0.5
90°-100°	651.3	4.9
100°-110°	1761.1	13.2
110°-120°	1851.5	13.9
120°-130°	1503.9	11.3
130°-140°	1179.7	8.8
140°-150°	905.4	6.8
150°-160°	651.2	4.9
160°-170°	397.8	3.0
170°-180°	134.1	1.0
0°-30°	1294.8	9.7
0°-40°	2093.6	15.7
0°-60°	3578.4	26.8
0°-90°	4312.6	32.3
90°-120°	4263.9	31.9
90°-150°	7852.9	58.8
90°-180°	9036.0	67.7
0°-180°	13348.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1690	1674	1679	1674	1674	160
15°	1625	1609	1616	1610	1607	458
25°	1496	1479	1486	1473	1471	688
35°	1293	1280	1284	1269	1268	808
45°	1051	1044	1043	1033	1033	809
55°	779	776	769	764	763	692
65°	460	452	441	438	440	459
75°	210	210	207	205	204	227
85°	49	53	53	53	53	57
90°	3	9	20	21	20	9
95°	101	355	1083	561	333	106
105°	327	506	1954	2882	2764	345
115°	576	705	1620	3136	3541	569
125°	789	904	1460	2464	2895	703
135°	946	1058	1421	1990	2252	731
145°	1100	1182	1402	1703	1833	688
155°	1242	1290	1389	1528	1578	573
165°	1352	1365	1396	1450	1457	381
175°	1403	1402	1397	1415	1412	133
180°	1402	1402	1402	1402	1402	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.8	1683.8	1683.8	1683.8	1683.8
2.5°	1694.4	1680.6	1683.8	1681.3	1674.4
5°	1689.7	1673.9	1679.4	1673.5	1673.5
7.5°	1678.2	1660.9	1666.4	1660.5	1660.2
10°	1667.6	1650.3	1655.8	1649.8	1648.4
12.5°	1652.2	1634.9	1641.6	1634.5	1634.2
15°	1624.8	1608.9	1615.9	1610.0	1607.1
17.5°	1593.8	1576.5	1584.9	1576.7	1575.5
20°	1570.2	1552.9	1561.3	1549.5	1549.5
22.5°	1541.9	1524.5	1534.2	1518.8	1518.8
25°	1496.4	1479.1	1486.1	1472.8	1471.3
27.5°	1442.4	1425.4	1432.7	1417.6	1417.3
30°	1403.4	1387.6	1396.1	1379.8	1378.3
32.5°	1360.9	1346.2	1352.4	1336.1	1334.7
35°	1292.8	1279.8	1283.9	1269.1	1267.7
37.5°	1221.0	1207.8	1212.5	1199.8	1199.2
40°	1170.3	1161.6	1162.9	1152.5	1149.6
42.5°	1123.0	1113.2	1114.5	1104.1	1103.6
45°	1050.7	1043.5	1043.4	1033.0	1033.0
47.5°	974.0	968.5	966.9	958.3	958.1
50°	920.9	916.5	915.0	907.5	906.1
52.5°	865.4	863.4	858.3	852.1	851.8
55°	779.2	776.3	768.9	764.4	763.0
57.5°	685.6	679.9	671.5	665.0	666.2
60°	618.3	612.6	600.6	597.7	597.7
62.5°	553.4	546.5	534.5	530.4	532.7
65°	460.4	451.8	441.2	438.3	439.8
67.5°	376.0	368.2	356.8	356.8	355.7
70°	321.7	317.4	308.4	308.4	308.4
72.5°	273.3	271.3	264.7	264.7	263.6
75°	209.6	209.6	206.6	205.1	203.7
77.5°	157.0	157.6	156.1	154.6	152.0
80°	124.0	126.8	125.4	123.9	122.5
82.5°	93.3	96.2	95.9	93.3	93.0
85°	48.7	53.0	53.1	53.1	53.1
87.5°	13.6	19.4	22.8	23.1	24.0
90°	3.0	8.9	19.6	21.1	19.6
92.5°	42.8	156.1	308.1	133.7	96.9
95°	101.1	354.8	1083.2	560.6	333.4
97.5°	162.3	406.9	1688.4	1397.3	1026.2
100°	208.2	428.0	1876.7	1957.2	1582.5
102.5°	250.4	457.2	1943.1	2381.7	2101.5
105°	327.4	505.9	1953.6	2881.8	2763.8
107.5°	398.6	561.4	1868.3	3193.7	3232.9
110°	454.1	601.6	1792.2	3277.5	3444.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	503.6	641.6	1722.2	3260.7	3540.7
115°	576.3	704.6	1620.2	3136.5	3540.7
117.5°	647.5	767.9	1553.0	2946.8	3404.9
120°	690.9	808.9	1513.1	2810.6	3278.2
122.5°	732.0	847.6	1489.0	2664.6	3135.8
125°	789.0	904.1	1460.3	2464.3	2895.0
127.5°	841.5	954.5	1443.4	2300.8	2679.6
130°	870.5	987.0	1436.2	2199.8	2542.0
132.5°	900.6	1016.0	1428.9	2108.6	2423.7
135°	945.9	1058.0	1421.1	1989.8	2252.3
137.5°	991.5	1097.4	1414.5	1893.3	2107.2
140°	1022.8	1121.7	1412.1	1831.2	2021.5
142.5°	1053.0	1145.9	1407.2	1775.2	1941.9
145°	1099.8	1182.4	1401.5	1703.1	1833.0
147.5°	1142.3	1215.5	1394.9	1637.9	1737.6
150°	1173.7	1238.6	1392.4	1602.4	1682.1
152.5°	1202.7	1259.3	1391.2	1569.5	1635.0
155°	1241.6	1290.3	1389.4	1527.8	1578.0
157.5°	1282.0	1315.9	1389.7	1498.8	1531.8
160°	1304.9	1333.0	1390.9	1480.5	1504.1
162.5°	1323.0	1346.3	1392.1	1465.9	1483.6
165°	1351.7	1365.0	1395.5	1449.9	1457.3
167.5°	1371.3	1380.5	1395.8	1436.3	1439.8
170°	1383.4	1387.8	1397.0	1430.2	1430.2
172.5°	1393.0	1393.9	1397.0	1422.9	1421.7
175°	1403.0	1401.5	1397.0	1415.0	1412.1
177.5°	1406.3	1402.8	1396.7	1408.7	1405.1
180°	1401.5	1401.5	1401.5	1401.5	1401.5

(END OF REPORT)