

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: P563792

Luminaire Tested: **SQ4-PP3-150U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563792
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

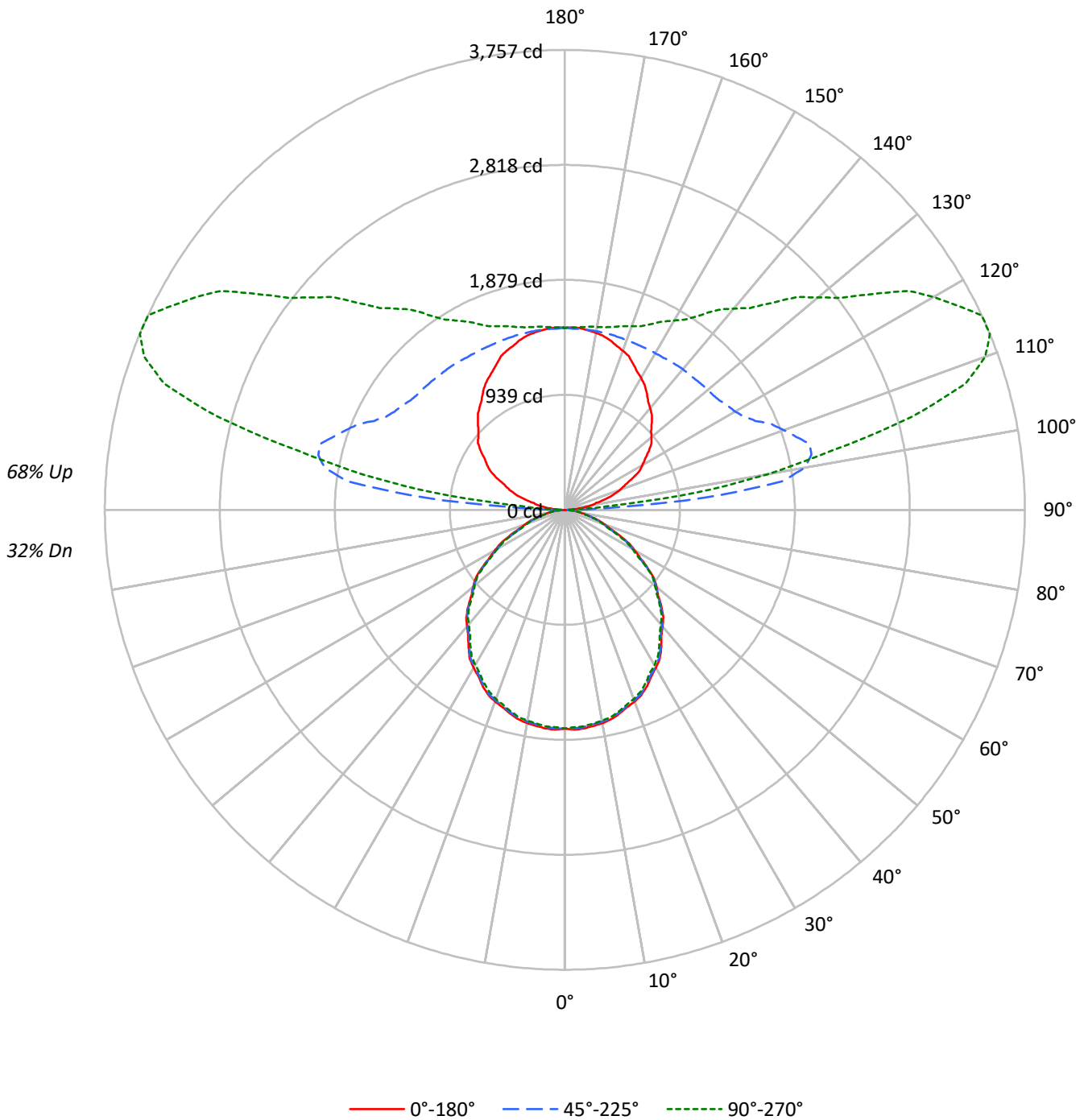
Lumens per Lamp: N/A
Luminaire Lumens: 14162.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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	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°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8193
15°	8233	8188	8143
20°	8179	8133	8071
25°	8081	8025	7946
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6900
55°	6649	6561	6511
60°	6053	5880	5850
65°	5332	5111	5093
70°	4603	4413	4413
75°	3962	3907	3852
80°	3493	3536	3454
85°	2736	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.2
10°-20°	482.4	3.4
20°-30°	722.5	5.1
30°-40°	847.5	6.0
40°-50°	850.1	6.0
50°-60°	725.2	5.1
60°-70°	473.0	3.3
70°-80°	237.3	1.7
80°-90°	68.8	0.5
90°-100°	691.1	4.9
100°-110°	1868.5	13.2
110°-120°	1964.4	13.9
120°-130°	1595.6	11.3
130°-140°	1251.7	8.8
140°-150°	960.7	6.8
150°-160°	690.9	4.9
160°-170°	422.1	3.0
170°-180°	142.3	1.0
0°-30°	1373.8	9.7
0°-40°	2221.3	15.7
0°-60°	3796.6	26.8
0°-90°	4575.7	32.3
90°-120°	4524.0	31.9
90°-150°	8331.9	58.8
90°-180°	9587.0	67.7
0°-180°	14162.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1793	1776	1782	1776	1776	170
15°	1724	1707	1714	1708	1705	486
25°	1588	1569	1577	1563	1561	730
35°	1372	1358	1362	1346	1345	857
45°	1115	1107	1107	1096	1096	858
55°	827	824	816	811	810	735
65°	488	479	468	465	467	488
75°	222	222	219	218	216	241
85°	52	56	56	56	56	61
90°	3	10	21	22	21	9
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.5	1786.5	1786.5	1786.5	1786.5
2.5°	1797.8	1783.1	1786.5	1783.9	1776.5
5°	1792.8	1776.0	1781.9	1775.6	1775.6
7.5°	1780.6	1762.2	1768.1	1761.8	1761.5
10°	1769.3	1751.0	1756.8	1750.5	1749.0
12.5°	1753.0	1734.7	1741.8	1734.2	1733.9
15°	1723.9	1707.1	1714.5	1708.2	1705.1
17.5°	1691.0	1672.7	1681.6	1672.8	1671.6
20°	1666.0	1647.6	1656.6	1644.1	1644.1
22.5°	1635.9	1617.5	1627.8	1611.5	1611.5
25°	1587.7	1569.3	1576.7	1562.6	1561.1
27.5°	1530.4	1512.3	1520.1	1504.1	1503.8
30°	1489.1	1472.2	1481.2	1464.0	1462.4
32.5°	1444.0	1428.3	1434.9	1417.6	1416.1
35°	1371.6	1357.8	1362.2	1346.5	1345.0
37.5°	1295.5	1281.4	1286.4	1273.0	1272.3
40°	1241.7	1232.5	1233.8	1222.8	1219.7
42.5°	1191.6	1181.1	1182.5	1171.5	1170.9
45°	1114.8	1107.2	1107.0	1096.0	1096.0
47.5°	1033.4	1027.6	1025.9	1016.8	1016.5
50°	977.0	972.4	970.8	962.9	961.4
52.5°	918.2	916.0	910.7	904.1	903.8
55°	826.7	823.7	815.8	811.0	809.5
57.5°	727.5	721.3	712.4	705.6	706.8
60°	656.1	649.9	637.3	634.1	634.1
62.5°	587.2	579.8	567.1	562.8	565.2
65°	488.5	479.3	468.2	465.1	466.6
67.5°	399.0	390.7	378.6	378.6	377.4
70°	341.3	336.7	327.2	327.2	327.2
72.5°	290.0	287.8	280.9	280.9	279.6
75°	222.3	222.3	219.2	217.6	216.1
77.5°	166.6	167.2	165.7	164.0	161.3
80°	131.5	134.6	133.1	131.5	130.0
82.5°	99.0	102.0	101.8	98.9	98.6
85°	51.7	56.3	56.4	56.4	56.4
87.5°	14.4	20.6	24.2	24.5	25.5
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)