

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: P563124

Luminaire Tested: **SQ4-PC3-150U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563124
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

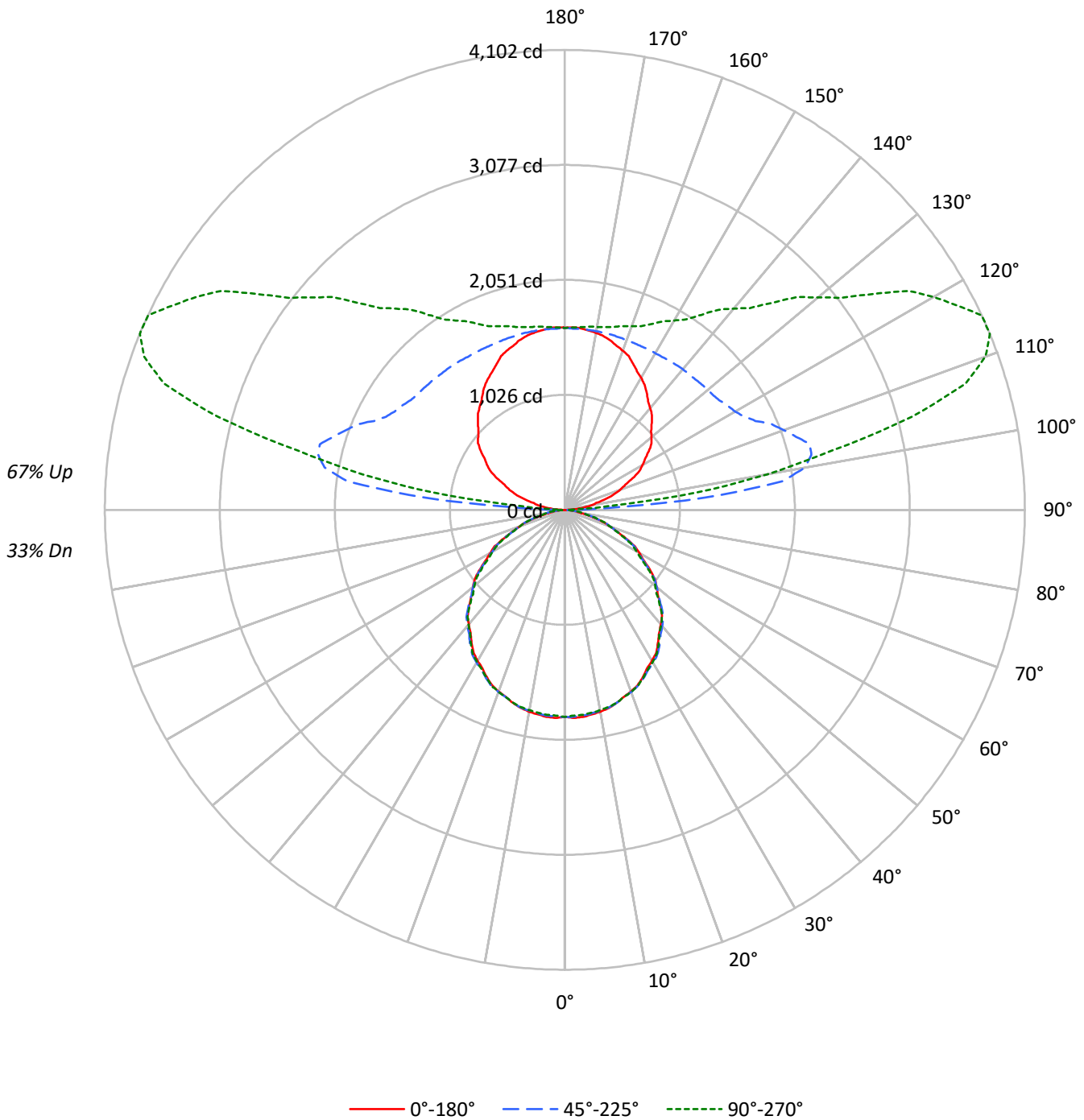
Lumens per Lamp: N/A
Luminaire Lumens: 15512.3 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8381	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7876	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7068	6926	6816
65°	6533	6403	6346
70°	5720	5766	5743
75°	4602	5090	5121
80°	3270	4317	4362
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.1
10°-20°	501.6	3.2
20°-30°	759.6	4.9
30°-40°	910.7	5.9
40°-50°	928.6	6.0
50°-60°	810.6	5.2
60°-70°	580.3	3.7
70°-80°	298.9	1.9
80°-90°	79.0	0.5
90°-100°	754.6	4.9
100°-110°	2040.2	13.2
110°-120°	2145.0	13.8
120°-130°	1742.3	11.2
130°-140°	1366.7	8.8
140°-150°	1049.0	6.8
150°-160°	754.4	4.9
160°-170°	460.8	3.0
170°-180°	155.4	1.0
0°-30°	1436.0	9.3
0°-40°	2346.6	15.1
0°-60°	4085.8	26.3
0°-90°	5043.9	32.5
90°-120°	4939.8	31.8
90°-150°	9097.7	58.6
90°-180°	10468.0	67.5
0°-180°	15512.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1854	1835	1842	1837	1835	176
15°	1784	1769	1784	1784	1782	503
25°	1647	1635	1659	1654	1654	758
35°	1448	1445	1471	1460	1460	906
45°	1207	1204	1216	1200	1197	929
55°	923	912	912	898	898	823
65°	598	585	587	581	581	592
75°	258	270	286	287	287	279
85°	38	58	68	70	68	51
90°	4	10	23	24	23	9
95°	117	411	1255	649	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	

TEST NUMBER: P563124

CATALOG NUMBER: SQ4-PC3-150U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1846.9	1846.9	1846.9	1846.9	1846.9
2.5°	1857.8	1841.8	1846.9	1842.6	1836.0
5°	1853.7	1835.3	1841.8	1836.6	1834.9
7.5°	1840.4	1822.0	1830.5	1827.0	1825.3
10°	1828.1	1809.7	1819.5	1816.1	1814.4
12.5°	1811.7	1794.6	1805.9	1802.4	1802.1
15°	1783.6	1768.6	1783.6	1783.6	1781.9
17.5°	1748.4	1734.7	1750.8	1751.8	1750.8
20°	1723.8	1708.7	1728.9	1727.2	1728.9
22.5°	1693.7	1681.3	1702.9	1698.5	1700.2
25°	1646.8	1635.1	1658.8	1653.7	1653.7
27.5°	1591.4	1583.0	1608.9	1603.4	1603.4
30°	1554.5	1546.1	1573.3	1566.4	1566.4
32.5°	1513.4	1507.7	1533.6	1525.4	1525.4
35°	1448.4	1445.1	1470.7	1460.4	1460.4
37.5°	1381.4	1378.4	1401.6	1389.2	1385.2
40°	1332.2	1330.5	1351.0	1337.3	1337.3
42.5°	1282.9	1281.2	1299.0	1282.6	1282.6
45°	1207.3	1204.0	1215.9	1200.4	1197.1
47.5°	1124.9	1121.6	1129.0	1112.2	1110.5
50°	1068.8	1065.5	1068.8	1053.4	1051.7
52.5°	1011.3	1005.3	1005.9	990.5	990.1
55°	923.4	911.7	911.5	897.8	897.8
57.5°	830.4	815.0	816.4	804.7	803.1
60°	766.1	749.4	750.7	740.4	738.8
62.5°	703.2	683.8	687.8	676.2	675.8
65°	598.5	585.2	586.6	581.4	581.4
67.5°	498.0	485.6	494.6	490.4	490.1
70°	424.1	415.7	427.5	427.5	425.8
72.5°	355.7	355.4	370.1	370.1	371.1
75°	258.2	269.9	285.6	287.3	287.3
77.5°	172.4	193.1	210.3	211.0	210.7
80°	123.1	146.5	162.5	165.8	164.2
82.5°	83.5	108.2	121.4	124.8	123.1
85°	37.6	57.7	68.4	70.1	68.4
87.5°	11.6	25.0	31.9	32.2	29.2
90°	3.5	10.3	22.7	24.4	22.7
92.5°	49.6	180.9	356.9	154.9	112.2
95°	117.1	411.0	1254.9	649.4	386.3
97.5°	188.1	471.4	1956.1	1618.8	1188.8
100°	241.2	495.8	2174.2	2267.5	1833.4
102.5°	290.1	529.7	2251.1	2759.3	2434.6
105°	379.3	586.0	2263.3	3338.6	3201.9
107.5°	461.8	650.4	2164.4	3700.0	3745.4
110°	526.1	697.0	2076.3	3797.0	3990.1

TEST NUMBER: P563124

CATALOG NUMBER: SQ4-PC3-150U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.4	1995.2	3777.6	4102.0
115°	667.6	816.3	1877.1	3633.7	4102.0
117.5°	750.1	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.1	3797.9
122.5°	848.0	982.0	1725.0	3087.0	3632.9
125°	914.1	1047.4	1691.8	2854.9	3353.9
127.5°	974.9	1105.8	1672.2	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2945.0
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.3	1638.7	2193.5	2441.3
140°	1185.0	1299.5	1635.9	2121.5	2342.0
142.5°	1219.9	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.8	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.7	1434.9	1613.2	1856.5	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.1
157.5°	1485.2	1524.5	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.7	1679.8	1688.3
167.5°	1588.7	1599.3	1617.0	1664.0	1668.1
170°	1602.7	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.3	1635.9
177.5°	1629.3	1625.2	1618.1	1632.0	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)