

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: P563108

Luminaire Tested: **SQ4-PC3-150U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563108
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

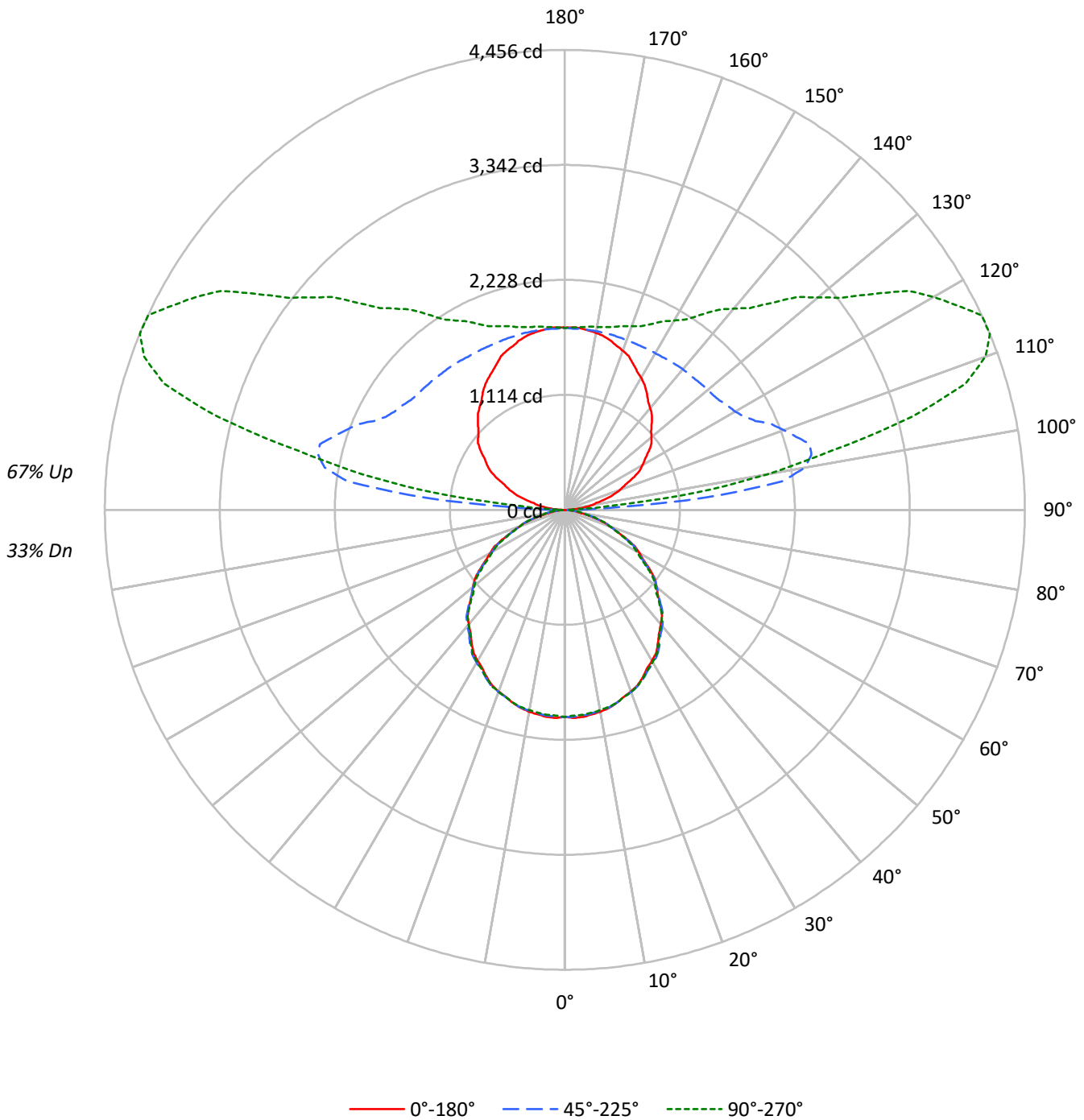
Lumens per Lamp: N/A
Luminaire Lumens: 16851.2 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	9255	9255	9255
5°	9325	9265	9230
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9065
35°	8861	8997	8934
40°	8714	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7964	7844
60°	7678	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5529	5563
80°	3555	4689	4737
85°	2165	3933	3933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	1.1
10°-20°	544.9	3.2
20°-30°	825.2	4.9
30°-40°	989.3	5.9
40°-50°	1008.7	6.0
50°-60°	880.5	5.2
60°-70°	630.4	3.7
70°-80°	324.7	1.9
80°-90°	85.8	0.5
90°-100°	819.7	4.9
100°-110°	2216.3	13.2
110°-120°	2330.1	13.8
120°-130°	1892.7	11.2
130°-140°	1484.7	8.8
140°-150°	1139.5	6.8
150°-160°	819.5	4.9
160°-170°	500.6	3.0
170°-180°	168.8	1.0
0°-30°	1559.9	9.3
0°-40°	2549.2	15.1
0°-60°	4438.4	26.3
0°-90°	5479.3	32.5
90°-120°	5366.2	31.8
90°-150°	9883.0	58.6
90°-180°	11372.0	67.5
0°-180°	16851.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2014	1994	2001	1995	1993	191
15°	1938	1921	1938	1938	1936	546
25°	1789	1776	1802	1796	1796	823
35°	1574	1570	1598	1586	1586	984
45°	1312	1308	1321	1304	1300	1010
55°	1003	990	990	975	975	894
65°	650	636	637	632	632	643
75°	280	293	310	312	312	303
85°	41	63	74	76	74	56
90°	4	11	25	26	25	10
95°	127	446	1363	706	420	133
105°	412	637	2459	3627	3478	434
115°	725	887	2039	3947	4456	716
125°	993	1138	1838	3101	3643	885
135°	1190	1332	1788	2504	2835	920
145°	1384	1488	1764	2143	2307	866
155°	1563	1624	1749	1923	1986	721
165°	1701	1718	1756	1825	1834	479
175°	1766	1764	1758	1781	1777	168
180°	1764	1764	1764	1764	1764	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	2018.2	2000.8	2006.3	2001.7	1994.4
5°	2013.7	1993.8	2000.7	1995.1	1993.3
7.5°	1999.3	1979.3	1988.5	1984.7	1982.9
10°	1985.9	1965.9	1976.6	1972.8	1971.0
12.5°	1968.0	1949.5	1961.7	1958.0	1957.6
15°	1937.6	1921.2	1937.6	1937.5	1935.7
17.5°	1899.3	1884.4	1901.9	1903.0	1901.9
20°	1872.6	1856.2	1878.1	1876.3	1878.1
22.5°	1839.9	1826.4	1849.9	1845.1	1846.9
25°	1789.0	1776.2	1802.0	1796.4	1796.4
27.5°	1728.8	1719.7	1747.7	1741.8	1741.8
30°	1688.6	1679.6	1709.1	1701.7	1701.7
32.5°	1644.1	1637.9	1666.0	1657.1	1657.1
35°	1573.5	1569.8	1597.6	1586.5	1586.5
37.5°	1500.6	1497.4	1522.6	1509.1	1504.7
40°	1447.1	1445.3	1467.6	1452.7	1452.7
42.5°	1393.6	1391.8	1411.1	1393.3	1393.3
45°	1311.5	1307.9	1320.8	1304.0	1300.4
47.5°	1222.0	1218.4	1226.5	1208.2	1206.4
50°	1161.1	1157.4	1161.1	1144.3	1142.5
52.5°	1098.6	1092.1	1092.7	1076.0	1075.6
55°	1003.2	990.4	990.2	975.3	975.3
57.5°	902.1	885.4	886.9	874.2	872.4
60°	832.2	814.1	815.5	804.3	802.5
62.5°	763.9	742.8	747.2	734.5	734.2
65°	650.2	635.7	637.2	631.6	631.6
67.5°	541.0	527.5	537.2	532.8	532.4
70°	460.7	451.6	464.4	464.4	462.6
72.5°	386.4	386.0	402.0	402.0	403.1
75°	280.5	293.2	310.2	312.1	312.1
77.5°	187.3	209.8	228.5	229.2	228.9
80°	133.8	159.2	176.5	180.2	178.3
82.5°	90.7	117.5	131.9	135.6	133.8
85°	40.9	62.7	74.3	76.1	74.3
87.5°	12.6	27.2	34.7	35.0	31.7
90°	3.8	11.2	24.7	26.5	24.7
92.5°	53.9	196.5	387.7	168.3	121.9
95°	127.2	446.5	1363.2	705.5	419.6
97.5°	204.3	512.1	2124.9	1758.5	1291.4
100°	262.0	538.6	2361.9	2463.2	1991.6
102.5°	315.2	575.4	2445.4	2997.5	2644.8
105°	412.0	636.6	2458.7	3626.8	3478.3
107.5°	501.6	706.6	2351.2	4019.3	4068.7
110°	571.5	757.1	2255.5	4124.7	4334.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	633.8	807.5	2167.5	4103.7	4456.0
115°	725.3	886.8	2039.1	3947.4	4456.0
117.5°	814.9	966.4	1954.4	3708.6	4285.2
120°	869.6	1018.1	1904.3	3537.2	4125.7
122.5°	921.2	1066.7	1873.9	3353.5	3946.4
125°	993.0	1137.8	1837.9	3101.4	3643.4
127.5°	1059.0	1201.2	1816.6	2895.6	3372.3
130°	1095.5	1242.2	1807.5	2768.5	3199.2
132.5°	1133.5	1278.6	1798.4	2653.8	3050.3
135°	1190.4	1331.5	1788.5	2504.2	2834.6
137.5°	1247.8	1381.1	1780.1	2382.8	2652.0
140°	1287.3	1411.6	1777.1	2304.7	2544.1
142.5°	1325.2	1442.2	1771.0	2234.1	2443.9
145°	1384.1	1488.0	1763.8	2143.4	2306.8
147.5°	1437.6	1529.7	1755.5	2061.3	2186.8
150°	1477.1	1558.8	1752.4	2016.7	2116.9
152.5°	1513.6	1584.9	1750.9	1975.3	2057.7
155°	1562.6	1623.8	1748.6	1922.8	1985.9
157.5°	1613.4	1656.1	1749.0	1886.3	1927.8
160°	1642.3	1677.6	1750.5	1863.2	1892.9
162.5°	1665.1	1694.4	1752.0	1844.8	1867.1
165°	1701.2	1717.9	1756.2	1824.8	1834.1
167.5°	1725.8	1737.3	1756.6	1807.6	1812.0
170°	1741.0	1746.6	1758.1	1799.9	1799.9
172.5°	1753.2	1754.3	1758.1	1790.7	1789.2
175°	1765.7	1763.9	1758.1	1780.8	1777.1
177.5°	1769.9	1765.4	1757.7	1772.8	1768.4
180°	1763.8	1763.8	1763.8	1763.8	1763.8

(END OF REPORT)