

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: P562957

Luminaire Tested: **SQ4-PC3-100U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562957
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-100D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

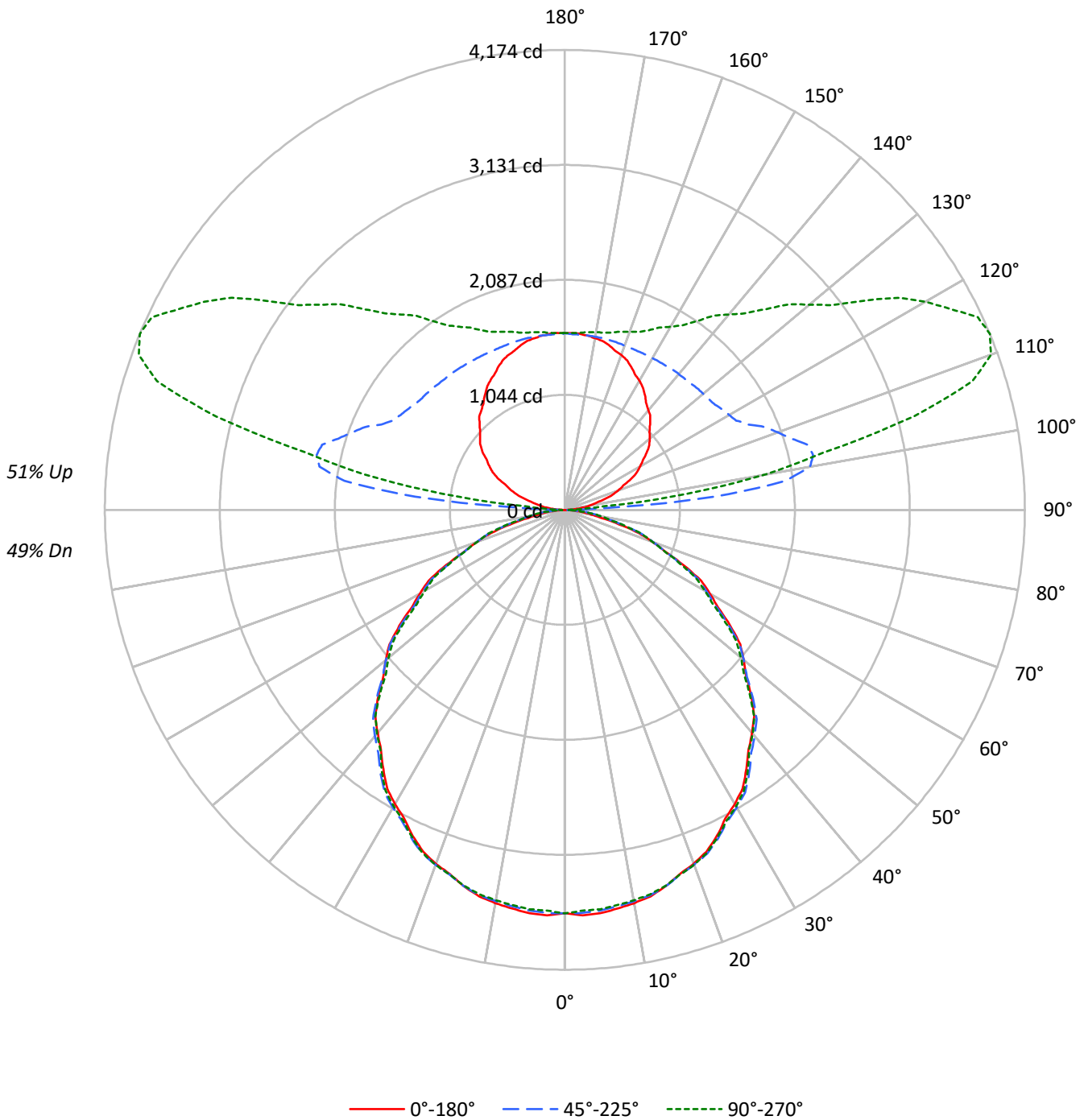
Lumens per Lamp: N/A
Luminaire Lumens: 20414.5 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 182.2
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41		
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35		
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29		
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25		
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22		
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19		
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17		
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15		
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14		
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11162	11127
30°	10946	11079	11030
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10486	10324
50°	10140	10140	9978
55°	9818	9691	9546
60°	9344	9156	9010
65°	8636	8464	8390
70°	7562	7622	7593
75°	6084	6729	6769
80°	4325	5705	5765
85°	2632	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	1.7
10°-20°	994.6	4.9
20°-30°	1506.2	7.4
30°-40°	1805.8	8.8
40°-50°	1841.3	9.0
50°-60°	1607.3	7.9
60°-70°	1150.7	5.6
70°-80°	592.7	2.9
80°-90°	153.2	0.8
90°-100°	750.7	3.7
100°-110°	2072.5	10.2
110°-120°	2137.5	10.5
120°-130°	1717.6	8.4
130°-140°	1349.9	6.6
140°-150°	1035.3	5.1
150°-160°	744.1	3.6
160°-170°	455.0	2.2
170°-180°	153.4	0.8
0°-30°	2847.5	13.9
0°-40°	4653.2	22.8
0°-60°	8101.8	39.7
0°-90°	9998.4	49.0
90°-120°	4960.7	24.3
90°-150°	9063.6	44.4
90°-180°	10416.0	51.0
0°-180°	20414.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3676	3639	3652	3642	3638	349
15°	3537	3507	3537	3537	3533	997
25°	3266	3242	3289	3279	3279	1503
35°	2872	2866	2916	2896	2896	1796
45°	2394	2387	2411	2380	2374	1843
55°	1831	1808	1807	1780	1780	1632
65°	1187	1160	1163	1153	1153	1174
75°	512	535	566	570	570	553
85°	75	114	136	139	136	102
90°	5	10	20	23	26	11
95°	110	406	1362	560	364	118
105°	369	570	2280	3481	3278	393
115°	662	800	1836	3636	4135	650
125°	908	1033	1665	2817	3306	808
135°	1093	1210	1618	2282	2573	845
145°	1267	1355	1598	1942	2090	793
155°	1429	1476	1585	1743	1798	658
165°	1547	1567	1593	1655	1667	436
175°	1603	1606	1595	1618	1613	152
180°	1603	1603	1603	1603	1603	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3662.3	3662.3	3662.3	3662.3	3662.3
2.5°	3684.0	3652.1	3662.3	3653.8	3640.6
5°	3675.8	3639.4	3652.1	3641.9	3638.5
7.5°	3649.4	3612.9	3629.7	3622.9	3619.5
10°	3625.0	3588.5	3608.0	3601.2	3597.8
12.5°	3592.4	3558.6	3580.9	3574.1	3573.4
15°	3536.8	3507.0	3536.8	3536.7	3533.4
17.5°	3467.0	3439.8	3471.7	3473.7	3471.7
20°	3418.1	3388.3	3428.3	3425.0	3428.3
22.5°	3358.4	3333.9	3376.8	3368.0	3371.3
25°	3265.5	3242.3	3289.3	3279.1	3279.1
27.5°	3155.7	3139.1	3190.2	3179.4	3179.4
30°	3082.4	3065.8	3119.7	3106.1	3106.1
32.5°	3001.0	2989.8	3041.0	3024.8	3024.8
35°	2872.2	2865.5	2916.3	2895.9	2895.9
37.5°	2739.2	2733.3	2779.3	2754.7	2746.7
40°	2641.6	2638.3	2678.9	2651.8	2651.8
42.5°	2543.9	2540.6	2575.8	2543.2	2543.2
45°	2394.0	2387.4	2411.0	2380.3	2373.7
47.5°	2230.6	2224.0	2238.7	2205.4	2202.1
50°	2119.4	2112.7	2119.4	2088.8	2085.5
52.5°	2005.4	1993.5	1994.6	1964.0	1963.4
55°	1831.1	1807.9	1807.4	1780.3	1780.3
57.5°	1646.7	1616.2	1618.9	1595.7	1592.4
60°	1519.2	1486.0	1488.6	1468.2	1464.9
62.5°	1394.4	1355.9	1363.9	1340.8	1340.1
65°	1186.8	1160.3	1163.1	1152.9	1152.9
67.5°	987.5	962.9	980.7	972.5	971.9
70°	841.0	824.4	847.7	847.7	844.4
72.5°	705.3	704.7	733.8	733.9	735.8
75°	512.0	535.2	566.3	569.7	569.7
77.5°	341.8	382.9	417.1	418.4	417.8
80°	244.2	290.6	322.1	328.9	325.5
82.5°	165.5	214.6	240.8	247.5	244.2
85°	74.6	114.4	135.6	139.0	135.6
87.5°	22.7	47.6	58.4	58.8	54.0
90°	5.1	10.1	20.5	23.1	25.6
92.5°	46.2	191.6	342.7	125.1	97.5
95°	110.3	406.2	1362.0	559.8	364.2
97.5°	182.6	455.0	2017.6	1553.3	1125.0
100°	236.0	484.3	2259.7	2275.7	1849.3
102.5°	287.3	517.5	2306.9	2811.8	2407.5
105°	369.4	570.0	2280.2	3481.2	3278.0
107.5°	456.6	635.1	2153.0	3804.0	3878.2
110°	518.1	678.6	2054.5	3873.4	4114.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.5	728.0	1962.2	3818.6	4173.7
115°	661.8	799.7	1836.5	3635.6	4134.7
117.5°	738.7	876.1	1753.9	3378.1	3945.9
120°	790.0	925.4	1721.1	3203.8	3775.6
122.5°	839.3	968.7	1694.4	3041.0	3582.7
125°	908.0	1033.4	1664.7	2817.2	3306.2
127.5°	966.5	1091.9	1647.2	2627.9	3049.7
130°	1005.5	1130.9	1639.0	2512.1	2895.8
132.5°	1042.4	1161.8	1630.8	2414.9	2762.5
135°	1092.7	1210.5	1618.5	2281.7	2572.7
137.5°	1149.1	1256.4	1612.3	2170.0	2418.2
140°	1179.9	1285.2	1608.2	2095.4	2313.6
142.5°	1214.8	1312.1	1604.1	2029.1	2221.3
145°	1267.1	1354.9	1598.0	1942.5	2090.4
147.5°	1317.4	1394.1	1592.3	1869.4	1984.2
150°	1354.3	1417.0	1590.3	1825.8	1918.6
152.5°	1383.0	1441.7	1588.2	1788.5	1865.2
155°	1428.7	1476.3	1585.1	1742.9	1798.0
157.5°	1470.7	1507.4	1585.7	1709.6	1747.2
160°	1495.4	1528.0	1587.7	1690.9	1718.5
162.5°	1515.9	1544.5	1589.8	1674.4	1695.9
165°	1546.7	1566.7	1592.8	1654.7	1667.2
167.5°	1570.3	1582.3	1595.4	1642.7	1646.7
170°	1582.6	1592.6	1595.4	1636.4	1636.4
172.5°	1592.8	1598.9	1595.4	1628.2	1626.2
175°	1603.1	1605.6	1595.4	1618.4	1613.4
177.5°	1607.2	1605.2	1594.9	1609.2	1605.1
180°	1603.1	1603.1	1603.1	1603.1	1603.1

(END OF REPORT)