

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: P563629

Luminaire Tested: **SQ4-PP3-100U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563629
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-100D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

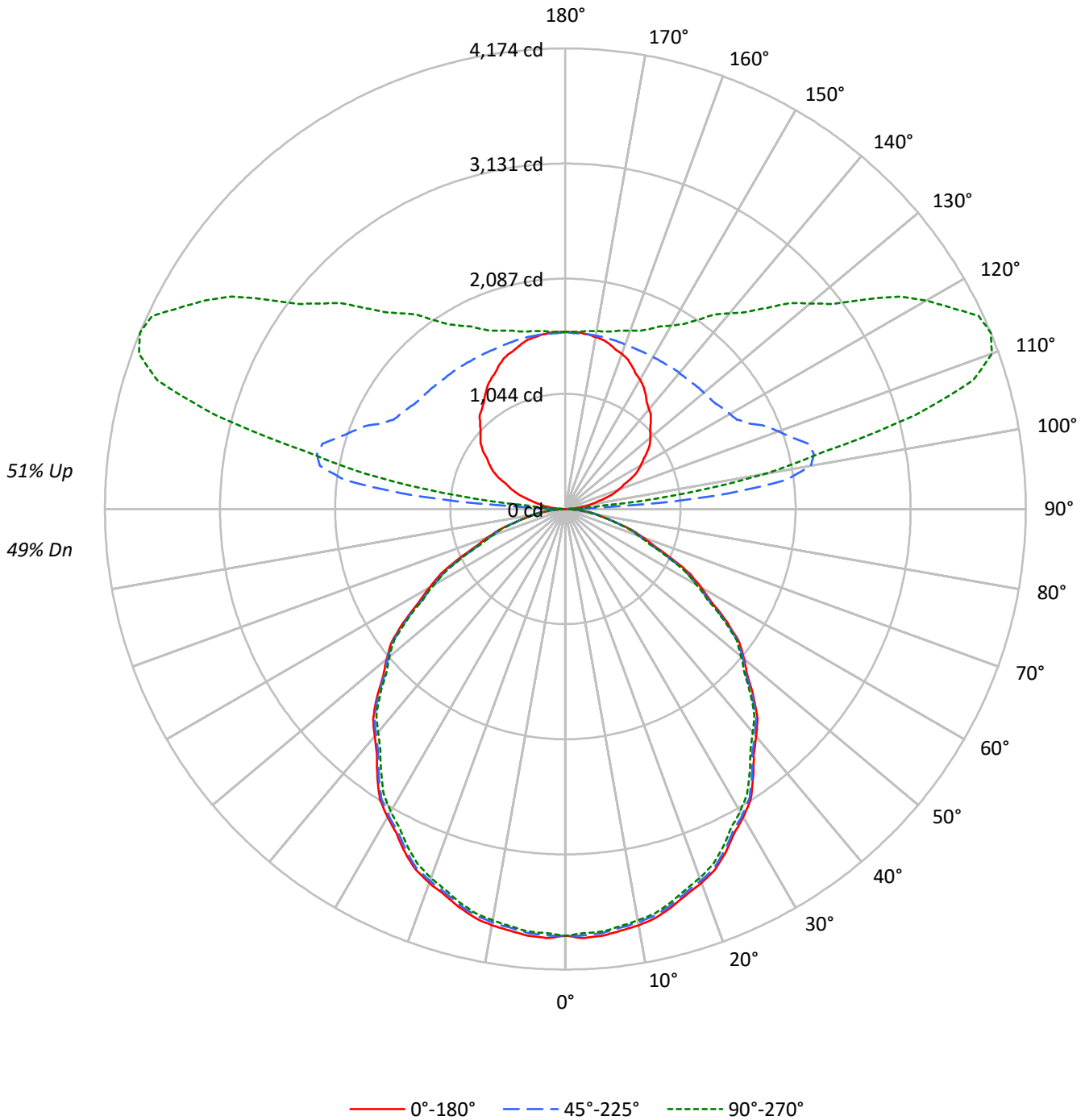
Lumens per Lamp: N/A
Luminaire Lumens: 20319.8 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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				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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11984	11910	11869
10°	11963	11879	11826
15°	11884	11820	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11244
35°	11150	11074	10933
40°	10793	10725	10603
45°	10498	10425	10321
50°	10122	10056	9959
55°	9598	9471	9398
60°	8737	8487	8445
65°	7697	7377	7352
70°	6646	6371	6371
75°	5720	5639	5559
80°	5044	5104	4984
85°	3949	4305	4305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	1.8
10°-20°	1044.4	5.1
20°-30°	1564.4	7.7
30°-40°	1834.9	9.0
40°-50°	1840.7	9.1
50°-60°	1570.2	7.7
60°-70°	1024.1	5.0
70°-80°	513.8	2.5
80°-90°	145.5	0.7
90°-100°	750.7	3.7
100°-110°	2072.5	10.2
110°-120°	2137.5	10.5
120°-130°	1717.6	8.5
130°-140°	1349.9	6.6
140°-150°	1035.3	5.1
150°-160°	744.1	3.7
160°-170°	455.0	2.2
170°-180°	153.4	0.8
0°-30°	2974.6	14.6
0°-40°	4809.5	23.7
0°-60°	8220.4	40.5
0°-90°	9903.8	48.7
90°-120°	4960.7	24.4
90°-150°	9063.6	44.6
90°-180°	10416.0	51.3
0°-180°	20319.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3868	3868	3868	3868	3868	
5°	3882	3845	3858	3844	3844	369
15°	3733	3696	3712	3698	3692	1053
25°	3438	3398	3414	3383	3380	1581
35°	2970	2940	2950	2916	2912	1855
45°	2414	2397	2397	2373	2373	1859
55°	1790	1783	1766	1756	1753	1591
65°	1058	1038	1014	1007	1010	1056
75°	481	481	475	471	468	522
85°	112	122	122	122	122	132
90°	5	10	20	23	26	12
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°	3868.2	3868.2	3868.2	3868.2	3868.2
2.5°	3892.6	3860.8	3868.2	3862.4	3846.5
5°	3881.8	3845.3	3858.0	3844.5	3844.5
7.5°	3855.3	3815.5	3828.2	3814.6	3814.0
10°	3830.9	3791.1	3803.8	3790.2	3786.8
12.5°	3795.7	3755.9	3771.2	3755.0	3754.3
15°	3732.6	3696.1	3712.3	3698.5	3691.9
17.5°	3661.4	3621.6	3641.1	3622.0	3619.4
20°	3607.2	3567.4	3586.8	3559.7	3559.7
22.5°	3542.1	3502.3	3524.4	3489.2	3489.2
25°	3437.7	3397.9	3413.9	3383.3	3380.0
27.5°	3313.6	3274.5	3291.2	3256.6	3255.9
30°	3224.1	3187.6	3207.1	3169.8	3166.4
32.5°	3126.4	3092.6	3106.8	3069.4	3066.1
35°	2969.8	2940.0	2949.5	2915.5	2912.2
37.5°	2805.0	2774.5	2785.4	2756.2	2754.9
40°	2688.4	2668.5	2671.5	2647.6	2641.0
42.5°	2579.9	2557.4	2560.3	2536.5	2535.2
45°	2413.8	2397.2	2396.9	2373.1	2373.1
47.5°	2237.5	2224.9	2221.3	2201.6	2200.9
50°	2115.5	2105.5	2101.9	2084.9	2081.6
52.5°	1988.0	1983.4	1971.7	1957.5	1956.8
55°	1790.0	1783.4	1766.3	1756.0	1752.7
57.5°	1575.1	1561.8	1542.5	1527.7	1530.3
60°	1420.5	1407.2	1379.8	1373.0	1373.0
62.5°	1271.3	1255.4	1227.9	1218.6	1223.9
65°	1057.7	1037.9	1013.7	1007.0	1010.3
67.5°	863.8	845.9	819.7	819.7	817.0
70°	739.1	729.1	708.5	708.5	708.5
72.5°	627.9	623.2	608.2	608.1	605.5
75°	481.4	481.4	474.6	471.2	467.8
77.5°	360.7	362.0	358.7	355.2	349.2
80°	284.8	291.4	288.2	284.7	281.4
82.5°	214.3	220.9	220.4	214.2	213.6
85°	111.9	121.8	122.0	122.0	122.0
87.5°	30.9	42.5	47.5	48.1	51.2
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)