

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: P564349

Luminaire Tested: **SQ4-PR1-125U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564349
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-050D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17995.8 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

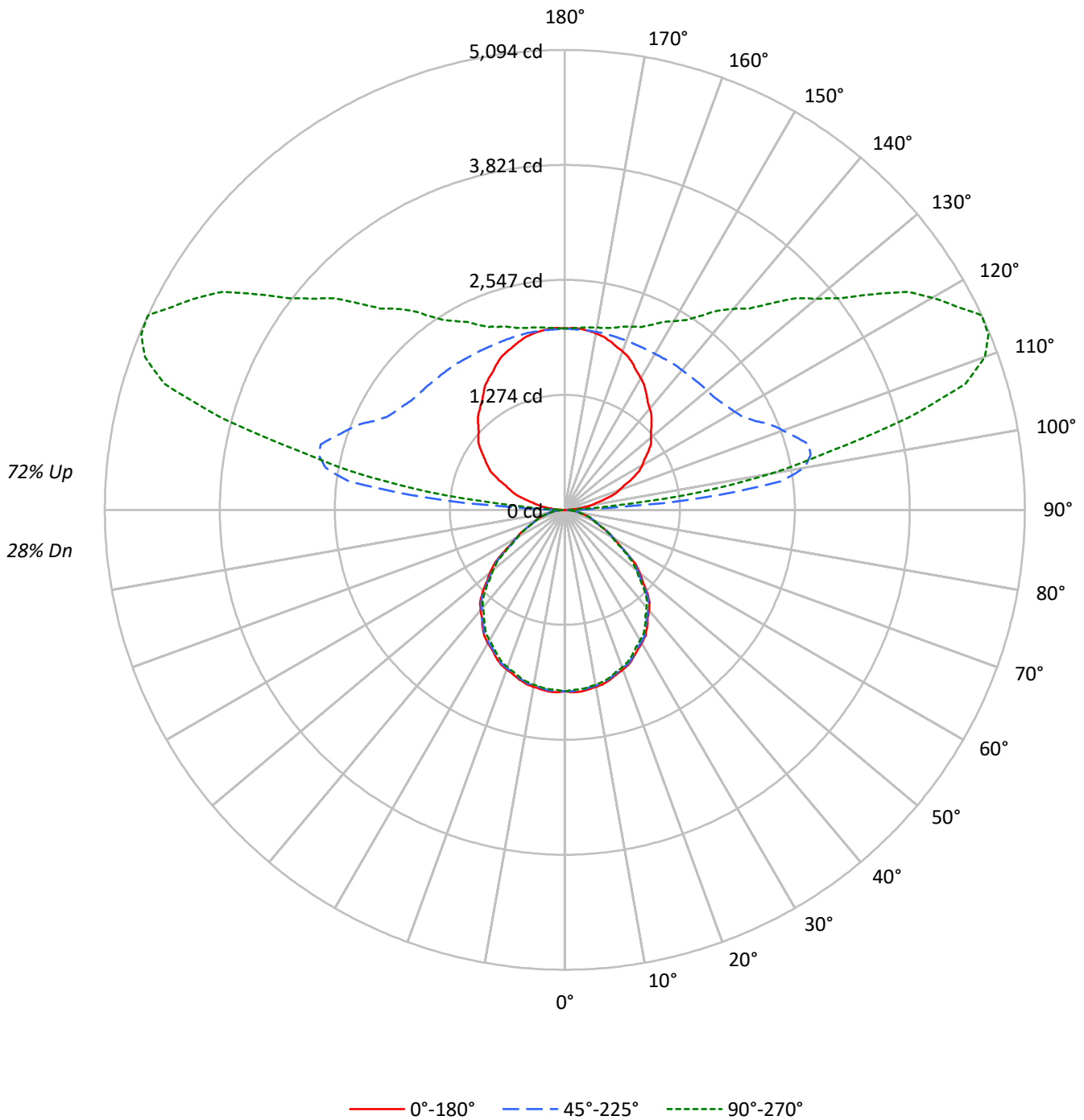
Input Watts (W): 146.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6182	6182	6182
5°	6238	6190	6158
10°	6219	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6116	6075	6005
30°	6050	6008	5922
35°	5961	5909	5825
40°	5825	5763	5659
45°	5588	5490	5377
50°	5170	5045	4946
55°	4512	4410	4317
60°	3802	3770	3695
65°	3288	3302	3276
70°	3020	3037	3037
75°	2901	2901	2922
80°	2729	2759	2729
85°	2198	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	1.1
10°-20°	543.9	3.0
20°-30°	820.4	4.6
30°-40°	977.5	5.4
40°-50°	963.7	5.4
50°-60°	736.5	4.1
60°-70°	455.8	2.5
70°-80°	258.9	1.4
80°-90°	83.5	0.5
90°-100°	939.5	5.2
100°-110°	2530.9	14.1
110°-120°	2656.1	14.8
120°-130°	2155.4	12.0
130°-140°	1690.4	9.4
140°-150°	1297.8	7.2
150°-160°	933.1	5.2
160°-170°	570.1	3.2
170°-180°	192.2	1.1
0°-30°	1554.4	8.6
0°-40°	2531.9	14.1
0°-60°	4232.2	23.5
0°-90°	5030.3	28.0
90°-120°	6126.5	34.0
90°-150°	11270.0	62.6
90°-180°	12965.0	72.0
0°-180°	17995.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2021	1999	2005	1998	1995	192
15°	1944	1924	1932	1925	1922	549
25°	1802	1780	1790	1771	1770	830
35°	1588	1569	1574	1553	1552	991
45°	1285	1268	1262	1240	1236	984
55°	842	828	822	809	805	754
65°	452	448	454	450	450	458
75°	244	244	244	246	246	258
85°	62	66	69	69	69	73
90°	5	15	31	33	33	13
95°	143	511	1540	788	545	150
105°	468	728	2799	4188	3930	492
115°	826	1012	2331	4504	5094	813
125°	1128	1296	2093	3537	4163	1007
135°	1359	1516	2034	2854	3231	1049
145°	1571	1694	2008	2440	2620	985
155°	1783	1848	1990	2189	2259	821
165°	1934	1957	1998	2078	2088	545
175°	2011	2008	2001	2029	2024	191
180°	2008	2008	2008	2008	2008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2022.8	2005.2	2010.3	2006.0	1996.5
5°	2020.7	1998.7	2005.1	1998.1	1994.7
7.5°	2005.1	1983.5	1989.9	1982.9	1980.9
10°	1991.3	1971.0	1977.4	1970.4	1967.0
12.5°	1976.0	1954.4	1962.2	1953.8	1950.4
15°	1944.5	1924.2	1932.4	1925.4	1922.0
17.5°	1909.9	1888.2	1896.4	1888.3	1883.9
20°	1882.2	1861.9	1870.1	1857.9	1856.2
22.5°	1851.7	1831.4	1839.6	1823.3	1823.0
25°	1802.5	1780.5	1790.4	1771.3	1769.6
27.5°	1744.0	1723.7	1731.9	1712.5	1710.4
30°	1703.8	1683.5	1691.7	1670.9	1667.5
32.5°	1658.1	1639.2	1646.0	1625.2	1623.2
35°	1587.8	1569.2	1574.0	1553.2	1551.5
37.5°	1507.8	1490.9	1493.6	1470.7	1469.0
40°	1451.0	1434.1	1435.5	1411.2	1409.5
42.5°	1388.7	1371.8	1370.3	1346.1	1344.4
45°	1284.8	1267.9	1262.3	1239.7	1236.3
47.5°	1166.4	1149.4	1139.0	1120.6	1118.2
50°	1080.5	1063.6	1054.5	1038.8	1033.7
52.5°	987.7	970.7	963.1	948.8	943.7
55°	841.5	828.0	822.5	808.6	805.2
57.5°	702.7	693.5	691.9	678.4	677.0
60°	618.2	613.1	613.0	600.8	600.8
62.5°	546.1	542.4	545.1	537.1	535.7
65°	451.9	448.5	453.7	450.2	450.2
67.5°	377.5	377.5	380.6	379.2	379.2
70°	335.9	335.9	337.7	337.7	337.7
72.5°	298.5	297.2	301.6	301.6	300.3
75°	244.1	244.1	244.1	245.9	245.9
77.5°	190.1	190.5	191.9	191.5	190.1
80°	154.1	155.8	155.8	154.1	154.1
82.5°	118.1	119.8	119.8	119.4	118.1
85°	62.3	65.7	69.3	69.3	69.3
87.5°	19.0	26.5	33.8	34.3	33.0
90°	5.1	15.1	30.7	33.3	33.3
92.5°	62.4	220.5	436.0	209.9	145.8
95°	143.3	511.0	1540.2	787.6	545.0
97.5°	228.7	585.0	2415.7	2018.1	1521.8
100°	294.2	614.4	2694.1	2818.8	2338.5
102.5°	357.7	655.9	2786.2	3418.4	3024.1
105°	468.2	728.4	2799.0	4187.5	3929.8
107.5°	572.6	804.7	2679.8	4582.7	4649.3
110°	642.2	862.3	2571.3	4705.4	4948.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	715.9	920.0	2466.9	4678.3	5077.1
115°	826.4	1011.5	2330.8	4503.6	5093.9
117.5°	927.2	1100.8	2225.4	4224.7	4882.1
120°	992.7	1160.3	2172.2	4024.5	4699.9
122.5°	1050.0	1215.6	2133.3	3819.8	4493.2
125°	1128.3	1295.9	2092.8	3537.2	4162.7
127.5°	1203.5	1368.6	2067.3	3288.1	3846.4
130°	1248.5	1413.6	2057.0	3145.3	3635.6
132.5°	1293.6	1456.7	2046.8	3019.5	3469.8
135°	1358.6	1516.2	2034.0	2853.6	3231.4
137.5°	1420.5	1571.6	2027.3	2712.9	3023.1
140°	1463.5	1608.5	2021.2	2626.3	2906.4
142.5°	1508.5	1643.6	2017.1	2545.4	2781.6
145°	1570.9	1693.5	2008.4	2439.8	2619.9
147.5°	1638.5	1745.0	1999.7	2350.9	2492.5
150°	1683.5	1776.0	1995.6	2295.1	2412.6
152.5°	1724.4	1805.0	1993.6	2249.5	2345.1
155°	1783.3	1848.3	1990.5	2189.1	2259.1
157.5°	1834.9	1885.5	1991.0	2146.6	2193.6
160°	1867.7	1910.2	1993.1	2121.8	2156.8
162.5°	1896.3	1930.9	1995.1	2101.1	2126.1
165°	1934.2	1956.7	1998.2	2077.7	2087.7
167.5°	1964.9	1977.9	2000.7	2059.7	2063.7
170°	1985.4	1990.4	2000.7	2049.3	2049.3
172.5°	1997.7	1998.7	2002.8	2039.1	2039.1
175°	2011.0	2008.5	2000.7	2028.8	2023.8
177.5°	2016.6	2012.6	2002.3	2018.6	2014.5
180°	2008.4	2008.4	2008.4	2008.4	2008.4

(END OF REPORT)