

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: P563677

Luminaire Tested: **SQ4-PP3-125U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563677
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-050D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 18025.7 lumens
Efficiency: N/A
Efficacy: 123.1 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: Semi-Indirect

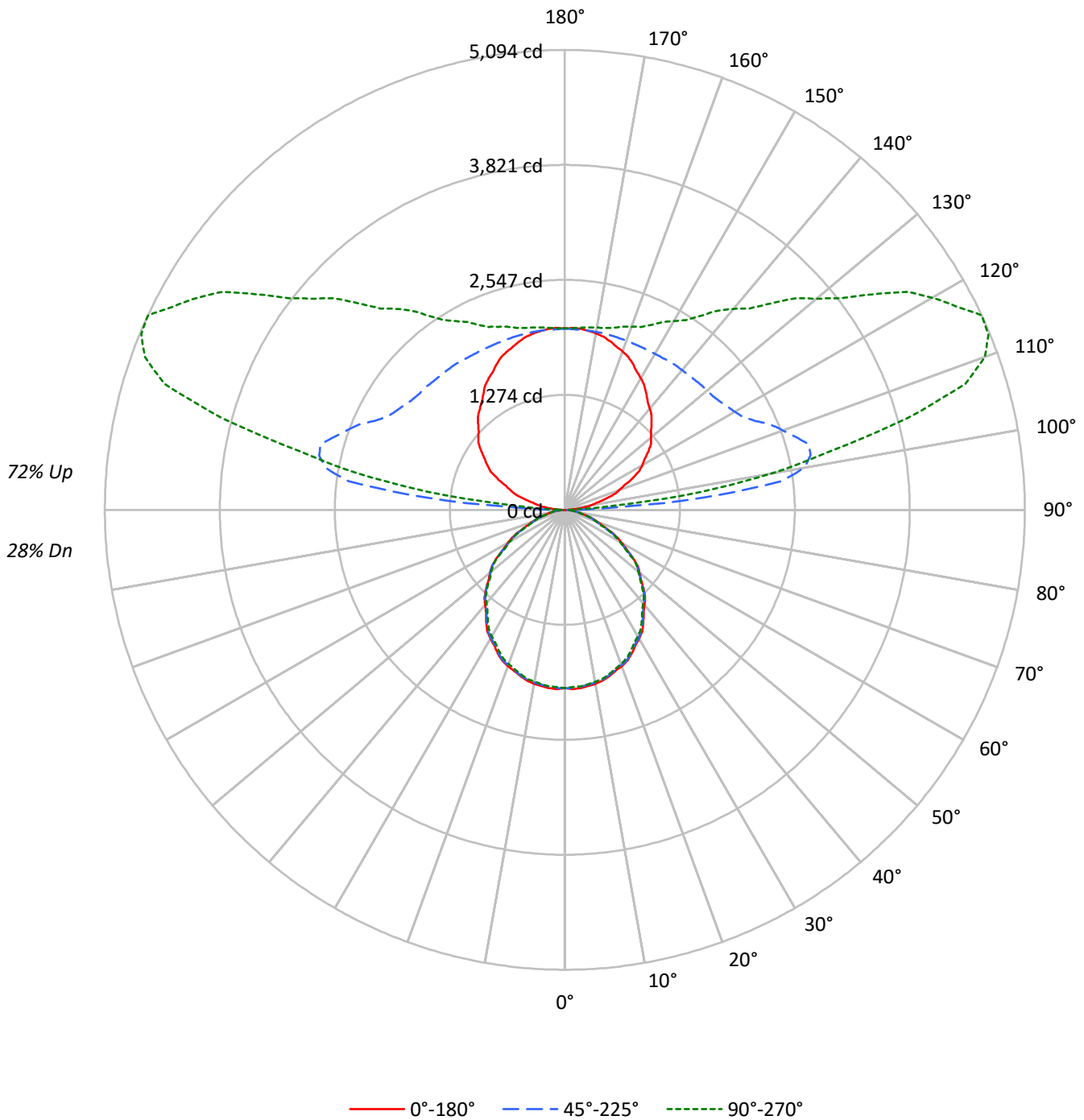
Input Watts (W): 146.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6060
10°	6109	6065	6039
15°	6068	6035	6002
20°	6028	5994	5949
25°	5957	5916	5857
30°	5846	5816	5742
35°	5694	5654	5583
40°	5511	5476	5414
45°	5361	5323	5270
50°	5168	5135	5085
55°	4901	4836	4799
60°	4461	4334	4312
65°	3930	3767	3754
70°	3394	3253	3253
75°	2921	2880	2839
80°	2575	2605	2545
85°	2015	2198	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.0
10°-20°	533.3	3.0
20°-30°	798.8	4.4
30°-40°	937.0	5.2
40°-50°	939.9	5.2
50°-60°	801.8	4.4
60°-70°	522.9	2.9
70°-80°	262.4	1.5
80°-90°	77.3	0.4
90°-100°	939.5	5.2
100°-110°	2530.9	14.0
110°-120°	2656.1	14.7
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°	1518.9	8.4
0°-40°	2455.9	13.6
0°-60°	4197.6	23.3
0°-90°	5060.2	28.1
90°-120°	6126.5	34.0
90°-150°	11270.0	62.5
90°-180°	12965.0	71.9
0°-180°	18025.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1982	1964	1970	1963	1963	188
15°	1906	1887	1896	1889	1885	538
25°	1755	1735	1743	1728	1726	807
35°	1516	1501	1506	1489	1487	947
45°	1233	1224	1224	1212	1212	949
55°	914	911	902	897	895	812
65°	540	530	518	514	516	539
75°	246	246	242	241	239	267
85°	57	62	62	62	62	67
90°	5	15	31	33	33	12
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°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1987.7	1971.4	1975.2	1972.3	1964.2
5°	1982.2	1963.5	1970.0	1963.1	1963.1
7.5°	1968.7	1948.3	1954.8	1947.9	1947.5
10°	1956.2	1935.9	1942.3	1935.4	1933.7
12.5°	1938.2	1917.9	1925.7	1917.4	1917.1
15°	1906.0	1887.4	1895.6	1888.6	1885.2
17.5°	1869.6	1849.3	1859.2	1849.5	1848.2
20°	1841.9	1821.6	1831.5	1817.7	1817.7
22.5°	1808.7	1788.4	1799.7	1781.7	1781.7
25°	1755.4	1735.1	1743.3	1727.6	1725.9
27.5°	1692.0	1672.0	1680.6	1662.9	1662.6
30°	1646.3	1627.7	1637.7	1618.6	1616.9
32.5°	1596.5	1579.2	1586.4	1567.3	1565.6
35°	1516.5	1501.2	1506.1	1488.7	1487.1
37.5°	1432.3	1416.8	1422.3	1407.4	1406.7
40°	1372.8	1362.6	1364.1	1351.9	1348.6
42.5°	1317.4	1305.9	1307.4	1295.2	1294.5
45°	1232.6	1224.1	1223.9	1211.8	1211.8
47.5°	1142.6	1136.1	1134.2	1124.2	1123.9
50°	1080.2	1075.2	1073.3	1064.6	1062.9
52.5°	1015.1	1012.8	1006.8	999.6	999.2
55°	914.0	910.7	901.9	896.7	895.0
57.5°	804.3	797.5	787.7	780.1	781.4
60°	725.3	718.6	704.6	701.1	701.1
62.5°	649.2	641.1	627.0	622.2	624.9
65°	540.1	530.0	517.6	514.2	515.9
67.5°	441.1	432.0	418.6	418.6	417.2
70°	377.4	372.3	361.8	361.8	361.8
72.5°	320.6	318.2	310.6	310.5	309.2
75°	245.8	245.8	242.4	240.6	238.9
77.5°	184.2	184.9	183.2	181.4	178.3
80°	145.4	148.8	147.1	145.4	143.7
82.5°	109.4	112.8	112.5	109.4	109.1
85°	57.1	62.2	62.3	62.3	62.3
87.5°	16.3	23.7	28.3	28.8	30.2
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)