

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: P523871

Luminaire Tested: **SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523871
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9811.8 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: 4' x H: 0')
CIE Type: General Diffuse

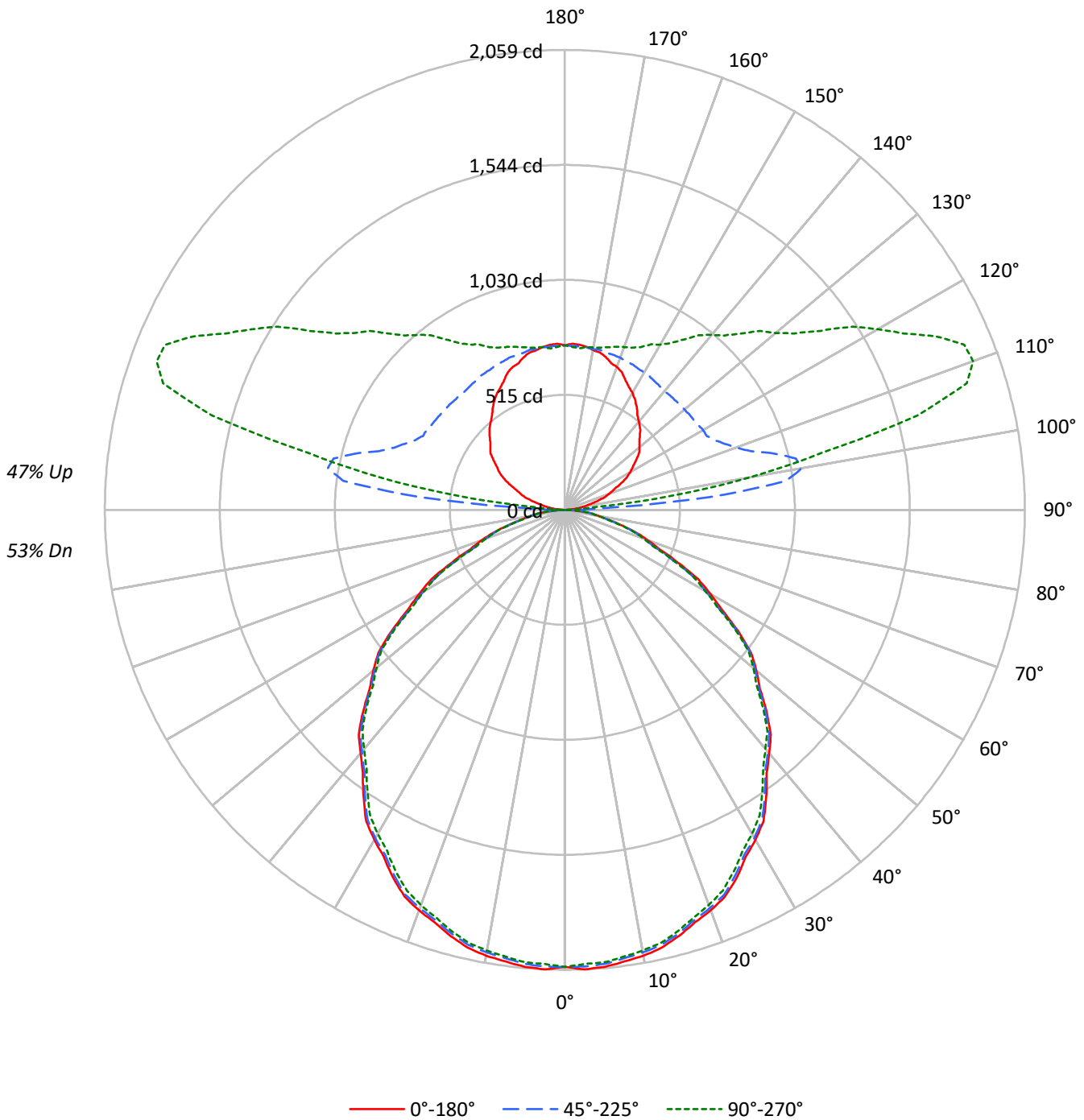
Input Watts (W): 88
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523871

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P523871

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	53	52	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
3	82	73	66	60	76	68	61	56	58	54	50	50	46	43	41	39	37	33
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	49	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	22
7	59	47	39	33	55	44	37	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18880	18880	18880
5°	19018	18902	18836
10°	18986	18852	18768
15°	18861	18758	18655
20°	18735	18630	18489
25°	18513	18385	18203
30°	18171	18075	17846
35°	17695	17574	17352
40°	17129	17021	16827
45°	16661	16545	16380
50°	16063	15960	15806
55°	15231	15030	14914
60°	13867	13468	13402
65°	12217	11706	11667
70°	10547	10110	10110
75°	9079	8951	8823
80°	8002	8097	7911
85°	6267	6838	6838



TEST NUMBER: P523871

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	2.0
10°-20°	552.5	5.6
20°-30°	827.6	8.4
30°-40°	970.7	9.9
40°-50°	973.7	9.9
50°-60°	830.7	8.5
60°-70°	541.7	5.5
70°-80°	271.8	2.8
80°-90°	75.2	0.8
90°-100°	335.6	3.4
100°-110°	954.8	9.7
110°-120°	914.8	9.3
120°-130°	724.0	7.4
130°-140°	581.1	5.9
140°-150°	455.0	4.6
150°-160°	332.9	3.4
160°-170°	206.2	2.1
170°-180°	70.0	0.7
0°-30°	1573.6	16.0
0°-40°	2544.3	25.9
0°-60°	4348.7	44.3
0°-90°	5237.4	53.4
90°-120°	2205.2	22.5
90°-150°	3965.3	40.4
90°-180°	4574.0	46.6
0°-180°	9811.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	2054	2034	2041	2034	2034	195
15°	1975	1955	1964	1957	1953	557
25°	1819	1798	1806	1790	1788	836
35°	1571	1555	1560	1542	1541	981
45°	1277	1268	1268	1255	1255	983
55°	947	943	934	929	927	842
65°	560	549	536	533	534	558
75°	255	255	251	249	248	276
85°	59	64	65	65	65	70
90°	0	0	0	0	0	4
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	

TEST NUMBER: P523871

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2046.3	2046.3	2046.3	2046.3	2046.3
2.5°	2059.2	2042.4	2046.3	2043.3	2034.8
5°	2053.5	2034.2	2040.9	2033.8	2033.8
7.5°	2039.5	2018.5	2025.2	2018.0	2017.6
10°	2026.6	2005.6	2012.3	2005.0	2003.3
12.5°	2007.9	1986.9	1995.0	1986.4	1986.1
15°	1974.6	1955.3	1963.8	1956.6	1953.1
17.5°	1936.9	1915.9	1926.2	1916.1	1914.7
20°	1908.2	1887.2	1897.5	1883.1	1883.1
22.5°	1873.8	1852.8	1864.5	1845.8	1845.8
25°	1818.6	1797.5	1806.0	1789.8	1788.1
27.5°	1752.9	1732.2	1741.1	1722.8	1722.4
30°	1705.6	1686.3	1696.6	1676.8	1675.1
32.5°	1653.9	1636.0	1643.5	1623.7	1622.0
35°	1571.1	1555.3	1560.3	1542.3	1540.6
37.5°	1483.9	1467.8	1473.5	1458.1	1457.4
40°	1422.2	1411.7	1413.2	1400.6	1397.1
42.5°	1364.8	1352.9	1354.4	1341.8	1341.1
45°	1276.9	1268.2	1268.0	1255.4	1255.4
47.5°	1183.7	1177.0	1175.1	1164.7	1164.3
50°	1119.1	1113.9	1111.9	1102.9	1101.2
52.5°	1051.7	1049.2	1043.1	1035.5	1035.2
55°	946.9	943.4	934.4	929.0	927.2
57.5°	833.2	826.2	816.0	808.2	809.6
60°	751.5	744.4	729.9	726.3	726.3
62.5°	672.5	664.1	649.6	644.6	647.4
65°	559.6	549.0	536.2	532.7	534.4
67.5°	457.0	447.5	433.7	433.6	432.2
70°	391.0	385.7	374.8	374.8	374.8
72.5°	332.1	329.7	321.7	321.7	320.3
75°	254.7	254.7	251.1	249.2	247.5
77.5°	190.8	191.5	189.7	187.9	184.7
80°	150.6	154.2	152.4	150.6	148.9
82.5°	113.3	116.9	116.6	113.3	113.0
85°	59.2	64.4	64.6	64.6	64.6
87.5°	15.8	21.4	23.0	23.0	24.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

TEST NUMBER: P523871

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)