

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: P523765

Luminaire Tested: **SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523765
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-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8425.0 lumens
Efficiency: N/A
Efficacy: 106.0 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: Semi-Direct

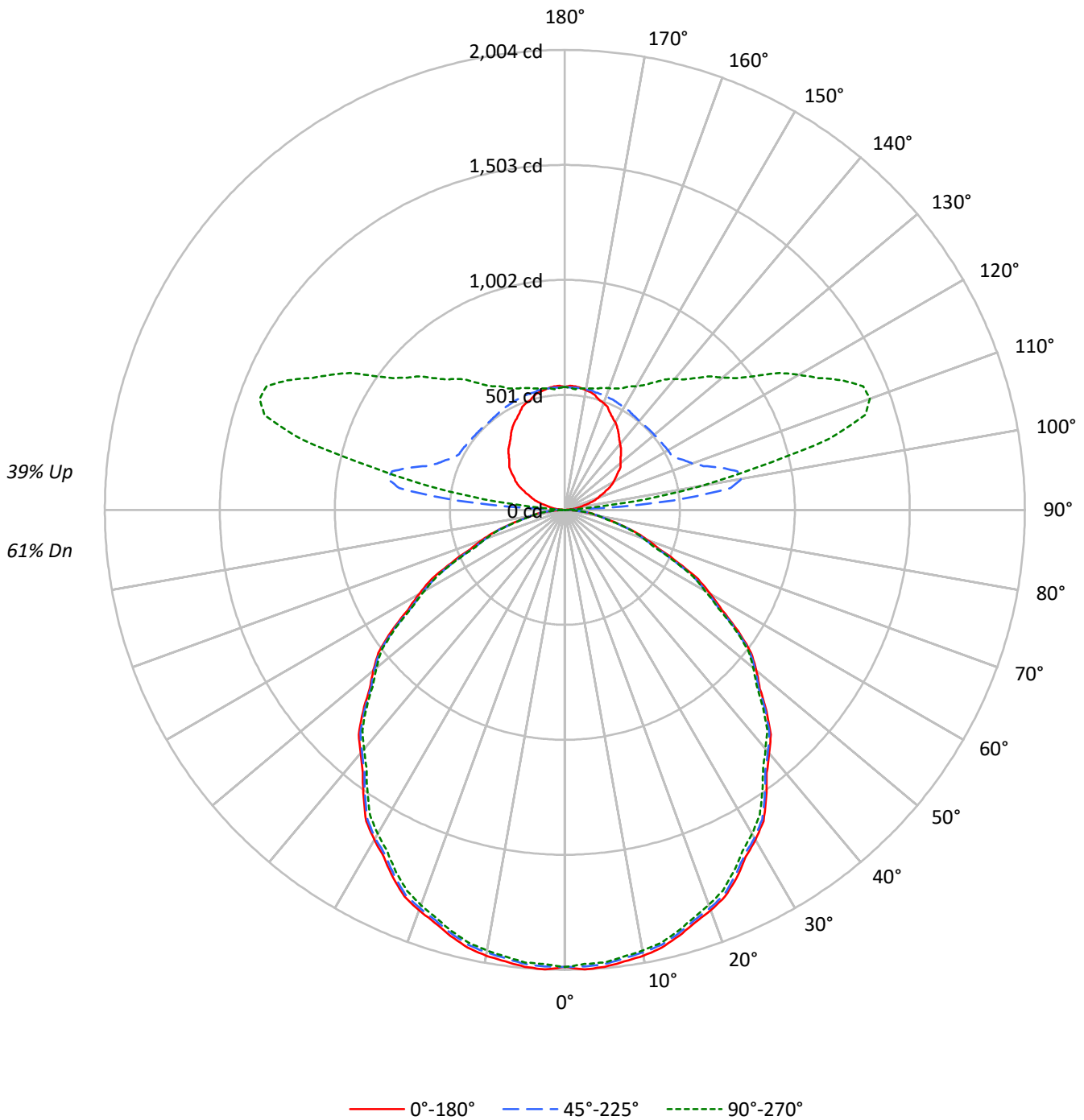
Input Watts (W): 79.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523765

CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P523765

CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4000K)

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	50	48	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	70	59	51	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18377	18377	18377
5°	18512	18399	18334
10°	18480	18349	18268
15°	18358	18258	18158
20°	18237	18133	17996
25°	18020	17895	17717
30°	17686	17593	17371
35°	17224	17105	16889
40°	16672	16568	16379
45°	16217	16104	15944
50°	15635	15535	15384
55°	14826	14630	14517
60°	13496	13110	13046
65°	11889	11396	11357
70°	10267	9841	9841
75°	8837	8712	8587
80°	7789	7885	7699
85°	6097	6648	6648



TEST NUMBER: P523765

CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	2.2
10°-20°	537.8	6.4
20°-30°	805.5	9.6
30°-40°	944.8	11.2
40°-50°	947.8	11.2
50°-60°	808.5	9.6
60°-70°	527.3	6.3
70°-80°	264.5	3.1
80°-90°	73.2	0.9
90°-100°	244.1	2.9
100°-110°	694.5	8.2
110°-120°	665.4	7.9
120°-130°	526.6	6.3
130°-140°	422.7	5.0
140°-150°	330.9	3.9
150°-160°	242.1	2.9
160°-170°	150.0	1.8
170°-180°	50.9	0.6
0°-30°	1531.7	18.2
0°-40°	2476.5	29.4
0°-60°	4232.8	50.2
0°-90°	5097.9	60.5
90°-120°	1603.9	19.0
90°-150°	2884.1	34.2
90°-180°	3327.0	39.5
0°-180°	8425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1999	1980	1987	1980	1980	190
15°	1922	1903	1912	1904	1901	542
25°	1770	1750	1758	1742	1740	814
35°	1529	1514	1519	1501	1500	955
45°	1243	1234	1234	1222	1222	957
55°	922	918	910	904	902	819
65°	545	534	522	518	520	544
75°	248	248	244	243	241	269
85°	58	63	63	63	63	68
90°	0	0	0	0	0	3
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

TEST NUMBER: P523765

CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1991.8	1991.8	1991.8	1991.8	1991.8
2.5°	2004.4	1988.0	1991.8	1988.8	1980.6
5°	1998.8	1980.0	1986.6	1979.6	1979.6
7.5°	1985.2	1964.7	1971.2	1964.2	1963.9
10°	1972.6	1952.1	1958.6	1951.6	1949.9
12.5°	1954.4	1934.0	1941.9	1933.5	1933.1
15°	1922.0	1903.2	1911.5	1904.4	1901.0
17.5°	1885.3	1864.8	1874.8	1865.0	1863.7
20°	1857.4	1836.9	1846.9	1832.9	1832.9
22.5°	1823.9	1803.4	1814.8	1796.6	1796.6
25°	1770.1	1749.6	1757.9	1742.1	1740.4
27.5°	1706.2	1686.1	1694.7	1676.9	1676.5
30°	1660.1	1641.4	1651.4	1632.2	1630.5
32.5°	1609.9	1592.4	1599.7	1580.5	1578.8
35°	1529.2	1513.8	1518.7	1501.2	1499.5
37.5°	1444.4	1428.7	1434.2	1419.2	1418.5
40°	1384.3	1374.1	1375.6	1363.3	1359.9
42.5°	1328.5	1316.8	1318.3	1306.1	1305.4
45°	1242.9	1234.4	1234.2	1222.0	1222.0
47.5°	1152.1	1145.7	1143.8	1133.6	1133.3
50°	1089.3	1084.2	1082.3	1073.5	1071.8
52.5°	1023.7	1021.3	1015.3	1007.9	1007.6
55°	921.7	918.3	909.5	904.2	902.5
57.5°	811.0	804.2	794.3	786.6	788.0
60°	731.4	724.6	710.5	707.0	707.0
62.5°	654.6	646.4	632.3	627.5	630.2
65°	544.6	534.4	522.0	518.5	520.2
67.5°	444.8	435.6	422.1	422.1	420.7
70°	380.6	375.4	364.8	364.8	364.8
72.5°	323.3	320.9	313.2	313.1	311.8
75°	247.9	247.9	244.4	242.6	240.9
77.5°	185.7	186.4	184.7	182.9	179.8
80°	146.6	150.0	148.4	146.6	144.9
82.5°	110.3	113.7	113.5	110.3	110.0
85°	57.6	62.7	62.8	62.8	62.8
87.5°	15.4	20.8	22.3	22.4	23.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4

TEST NUMBER: P523765

CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)