

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: P523867

Luminaire Tested: **SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523867
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9159.1 lumens
Efficiency: N/A
Efficacy: 104.0 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: General Diffuse

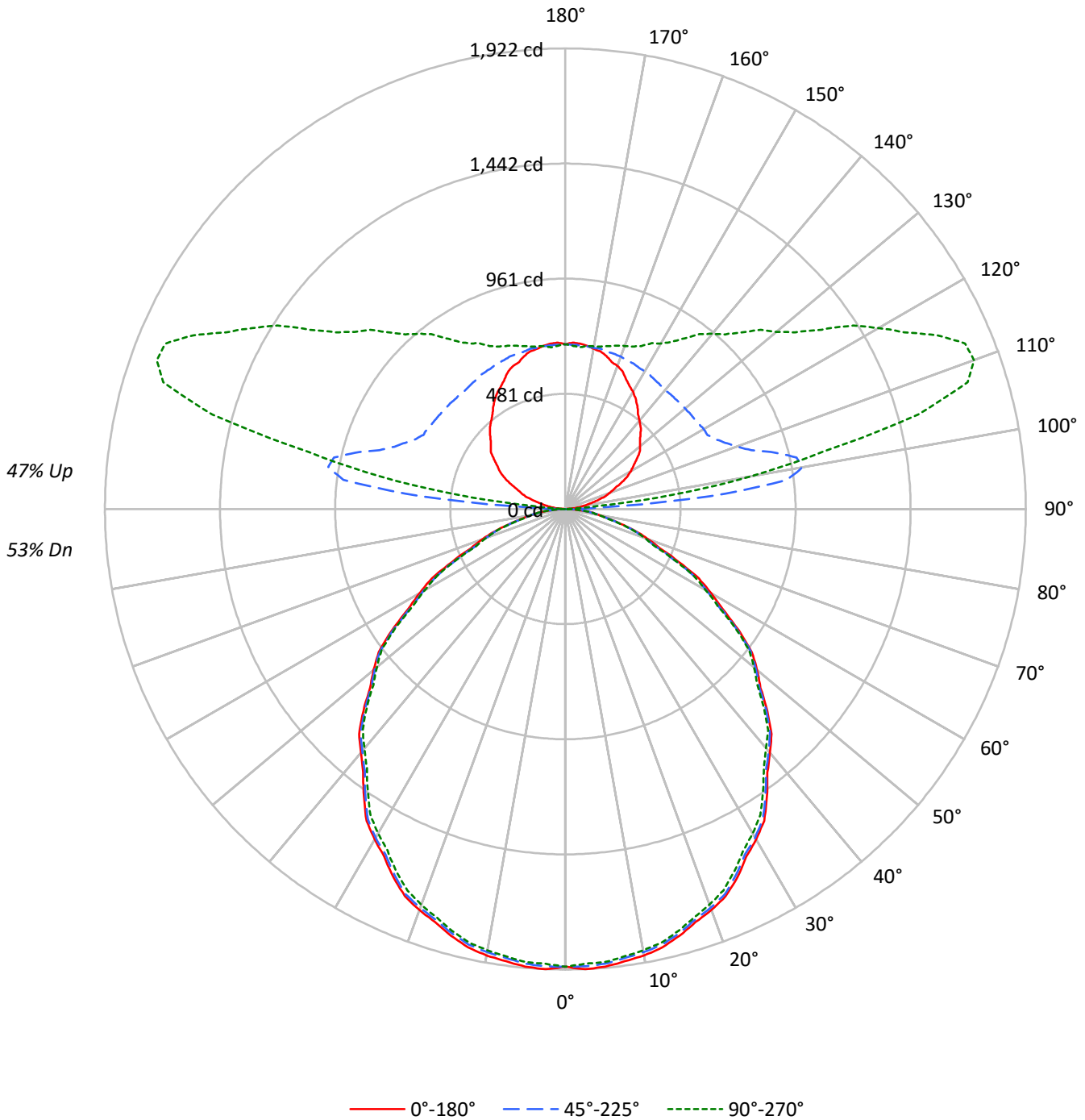
Input Watts (W): 88.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53				53
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	53	52	50	45				45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38				38
3	82	73	66	60	76	68	61	56	58	54	50	50	46	43	41	39	37	33				33
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28				28
5	69	58	49	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24				24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	22				22
7	59	47	39	33	55	44	37	31	38	32	28	33	28	25	28	24	22	19				19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17				17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15				15
10	48	36	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14				14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17624	17624	17624
5°	17753	17645	17583
10°	17723	17598	17519
15°	17606	17510	17414
20°	17489	17390	17259
25°	17282	17161	16991
30°	16961	16872	16658
35°	16517	16405	16197
40°	15990	15888	15707
45°	15553	15443	15291
50°	14995	14899	14754
55°	14218	14030	13922
60°	12944	12573	12511
65°	11402	10929	10892
70°	9846	9439	9439
75°	8473	8356	8235
80°	7470	7561	7385
85°	5843	6383	6383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.0
10°-20°	515.7	5.6
20°-30°	772.5	8.4
30°-40°	906.1	9.9
40°-50°	909.0	9.9
50°-60°	775.4	8.5
60°-70°	505.7	5.5
70°-80°	253.7	2.8
80°-90°	70.2	0.8
90°-100°	313.2	3.4
100°-110°	891.3	9.7
110°-120°	853.9	9.3
120°-130°	675.9	7.4
130°-140°	542.5	5.9
140°-150°	424.7	4.6
150°-160°	310.7	3.4
160°-170°	192.5	2.1
170°-180°	65.3	0.7
0°-30°	1468.9	16.0
0°-40°	2375.0	25.9
0°-60°	4059.4	44.3
0°-90°	4889.0	53.4
90°-120°	2058.5	22.5
90°-150°	3701.5	40.4
90°-180°	4270.0	46.6
0°-180°	9159.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1917	1899	1905	1898	1898	182
15°	1843	1825	1833	1826	1823	520
25°	1698	1678	1686	1671	1669	781
35°	1466	1452	1456	1440	1438	916
45°	1192	1184	1184	1172	1172	918
55°	884	881	872	867	866	786
65°	522	512	501	497	499	521
75°	238	238	234	233	231	258
85°	55	60	60	60	60	65
90°	0	0	0	0	0	3
95°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	

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CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1922.2	1906.5	1910.2	1907.3	1899.5
5°	1916.9	1898.9	1905.2	1898.5	1898.5
7.5°	1903.8	1884.2	1890.4	1883.7	1883.4
10°	1891.8	1872.1	1878.4	1871.6	1870.0
12.5°	1874.4	1854.7	1862.3	1854.3	1853.9
15°	1843.2	1825.2	1833.2	1826.4	1823.1
17.5°	1808.1	1788.4	1798.0	1788.6	1787.3
20°	1781.3	1761.6	1771.2	1757.8	1757.8
22.5°	1749.1	1729.5	1740.4	1723.0	1723.0
25°	1697.6	1677.9	1685.8	1670.7	1669.1
27.5°	1636.3	1617.0	1625.2	1608.2	1607.8
30°	1592.1	1574.1	1583.7	1565.3	1563.6
32.5°	1543.9	1527.2	1534.2	1515.7	1514.1
35°	1466.5	1451.8	1456.5	1439.7	1438.1
37.5°	1385.2	1370.1	1375.5	1361.1	1360.4
40°	1327.6	1317.8	1319.2	1307.4	1304.1
42.5°	1274.0	1262.9	1264.3	1252.6	1251.9
45°	1192.0	1183.8	1183.6	1171.9	1171.9
47.5°	1104.9	1098.7	1096.9	1087.2	1086.8
50°	1044.7	1039.7	1038.0	1029.6	1027.9
52.5°	981.7	979.4	973.7	966.6	966.3
55°	883.9	880.7	872.2	867.2	865.5
57.5°	777.8	771.3	761.7	754.4	755.7
60°	701.5	694.9	681.4	678.0	678.0
62.5°	627.8	619.9	606.4	601.7	604.4
65°	522.3	512.5	500.6	497.3	498.9
67.5°	426.6	417.7	404.8	404.8	403.5
70°	365.0	360.0	349.9	349.9	349.9
72.5°	310.0	307.8	300.3	300.3	299.0
75°	237.7	237.7	234.4	232.7	231.0
77.5°	178.1	178.8	177.1	175.4	172.4
80°	140.6	143.9	142.3	140.6	139.0
82.5°	105.8	109.1	108.8	105.8	105.5
85°	55.2	60.2	60.3	60.3	60.3
87.5°	14.7	20.0	21.4	21.5	22.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)