

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: P519564

Luminaire Tested: **SQ4-WB-150U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519564
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

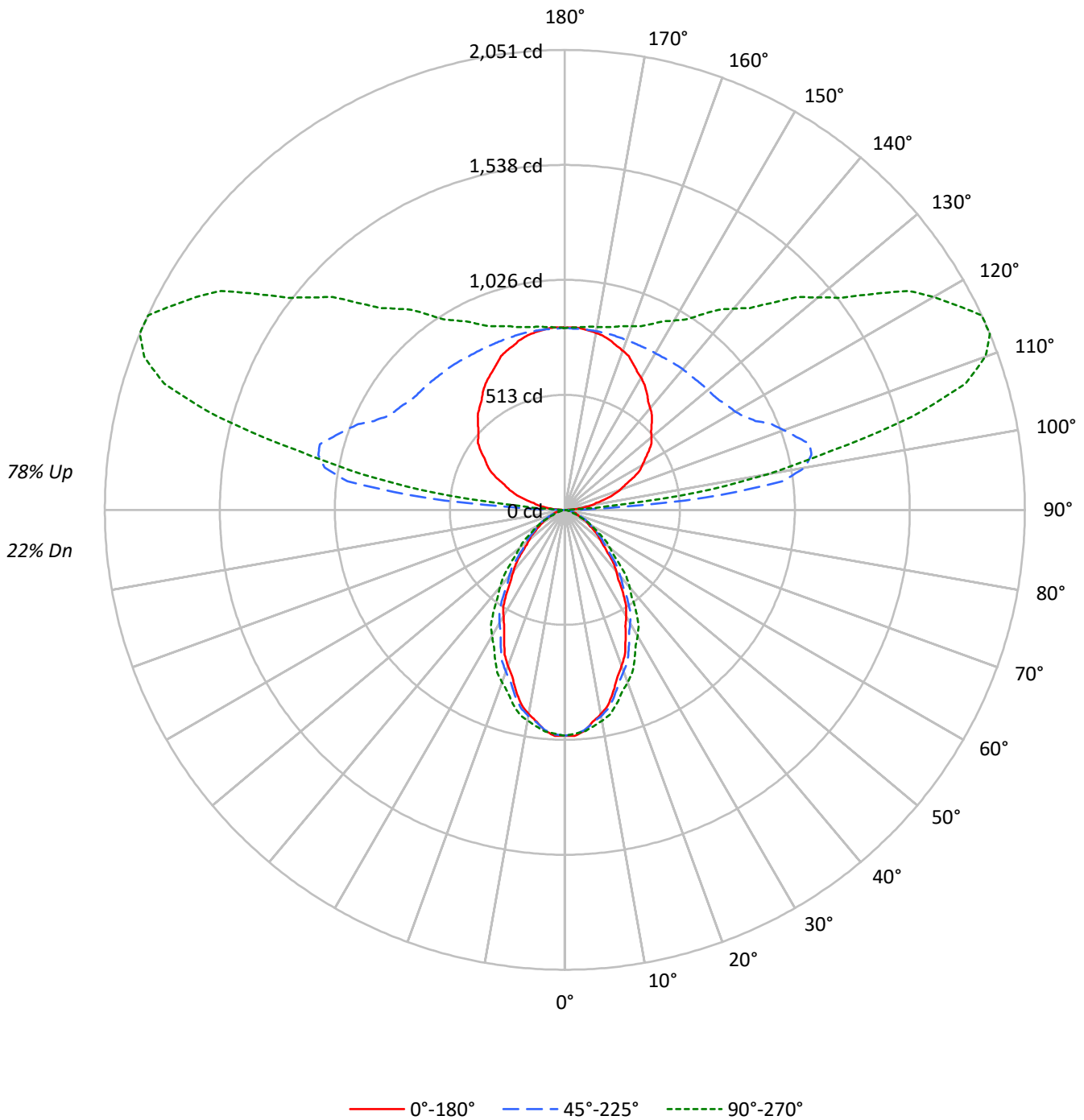
Lumens per Lamp: N/A
Luminaire Lumens: 6702.8 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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: P519564
CATALOG NUMBER: SQ4-WB-150U-050D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519564

CATALOG NUMBER: SQ4-WB-150U-050D-935-1D-UNV-STD-W-4

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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	62	56	68	61	56	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	63	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	34	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	23	20	17	16	14	11
7	55	44	37	32	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	14	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9288	9288	9288
5°	9173	9139	9193
10°	8666	8745	8947
15°	8000	8186	8553
20°	7265	7538	8036
25°	6516	6871	7487
30°	5826	6207	6917
35°	5094	5463	6244
40°	4288	4628	5405
45°	3539	3844	4513
50°	2954	3221	3759
55°	2508	2763	3104
60°	2144	2397	2478
65°	1707	2015	1600
70°	1513	1573	977
75°	1401	1276	599
80°	1291	1174	515
85°	1164	1080	423



TEST NUMBER: P519564

CATALOG NUMBER: SQ4-WB-150U-050D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	1.4
10°-20°	240.2	3.6
20°-30°	311.1	4.6
30°-40°	304.6	4.5
40°-50°	233.2	3.5
50°-60°	155.4	2.3
60°-70°	84.8	1.3
70°-80°	35.3	0.5
80°-90°	11.7	0.2
90°-100°	377.3	5.6
100°-110°	1020.1	15.2
110°-120°	1072.5	16.0
120°-130°	871.2	13.0
130°-140°	683.3	10.2
140°-150°	524.5	7.8
150°-160°	377.2	5.6
160°-170°	230.4	3.4
170°-180°	77.7	1.2
0°-30°	643.6	9.6
0°-40°	948.3	14.1
0°-60°	1336.8	19.9
0°-90°	1468.7	21.9
90°-120°	2469.9	36.8
90°-150°	4548.9	67.9
90°-180°	5234.0	78.1
0°-180°	6702.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	990	980	987	989	993	92
15°	838	834	857	880	895	234
25°	640	642	675	704	736	294
35°	452	454	485	518	554	281
45°	271	276	295	317	346	211
55°	156	162	172	178	193	141
65°	78	85	92	81	73	81
75°	39	39	36	25	17	42
85°	11	11	10	7	4	12
90°	2	5	11	12	11	4
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

TEST NUMBER: P519564

CATALOG NUMBER: SQ4-WB-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.7	1006.7	1006.7	1006.7	1006.7
2.5°	1009.2	1000.2	1002.5	1002.4	999.6
5°	990.4	980.4	986.8	989.1	992.6
7.5°	953.6	946.1	957.8	966.4	973.4
10°	925.0	918.5	933.4	946.0	955.0
12.5°	891.8	886.3	904.8	921.6	933.5
15°	837.5	834.5	857.0	880.3	895.4
17.5°	779.5	778.0	803.8	831.0	850.3
20°	739.9	739.5	767.7	796.1	818.5
22.5°	700.0	700.9	730.6	760.1	785.7
25°	640.1	641.8	675.0	704.4	735.5
27.5°	584.7	585.5	619.7	650.8	684.0
30°	546.9	549.0	582.6	614.8	649.3
32.5°	509.1	511.6	544.5	577.7	612.9
35°	452.3	454.5	485.0	517.7	554.4
37.5°	393.8	396.8	423.9	454.7	490.9
40°	356.0	360.4	384.3	413.4	448.8
42.5°	319.6	325.0	347.2	374.8	406.7
45°	271.2	276.4	294.6	316.9	345.9
47.5°	229.5	235.5	249.5	268.7	293.4
50°	205.8	211.5	224.4	238.6	261.9
52.5°	185.0	190.6	202.1	213.1	233.0
55°	155.9	162.4	171.8	178.4	193.0
57.5°	132.1	138.3	145.8	148.7	157.6
60°	116.2	123.1	129.9	129.5	134.3
62.5°	101.7	107.6	114.3	109.6	109.9
65°	78.2	84.7	92.3	80.7	73.3
67.5°	63.2	64.5	72.4	56.3	47.5
70°	56.1	56.1	58.3	43.6	36.2
72.5°	49.4	49.4	47.4	35.4	27.7
75°	39.3	39.3	35.8	24.6	16.8
77.5°	30.3	30.0	27.4	18.3	12.2
80°	24.3	24.3	22.1	14.5	9.7
82.5°	19.0	19.0	17.1	11.3	7.2
85°	11.0	11.0	10.2	6.6	4.0
87.5°	4.2	4.9	5.8	4.6	4.0
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1



TEST NUMBER: P519564

CATALOG NUMBER: SQ4-WB-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)