

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: P519425

Luminaire Tested: **SQ4-WB-100U-100D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519425
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

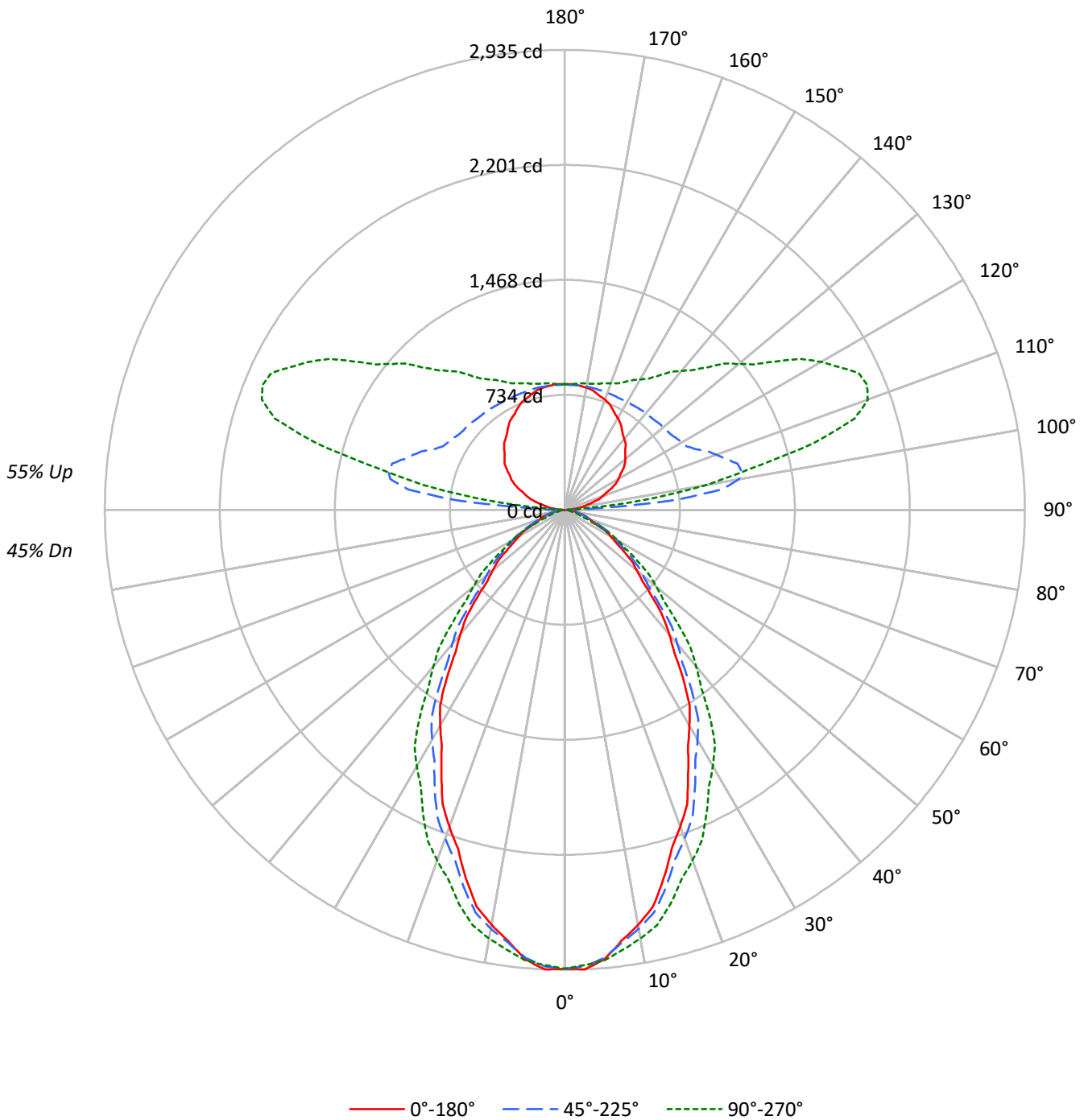
Lumens per Lamp: N/A
Luminaire Lumens: 9476.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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: P519425
CATALOG NUMBER: SQ4-WB-100U-100D-940-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P519425

CATALOG NUMBER: SQ4-WB-100U-100D-940-1D-UNV-STD-W-6

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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	89	86	83	81	72	70	68	59	58	56	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	37	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	22
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18010	18010	18010
5°	17785	17721	17825
10°	16803	16956	17349
15°	15512	15872	16584
20°	14086	14616	15583
25°	12635	13324	14518
30°	11297	12036	13414
35°	9879	10593	12107
40°	8314	8975	10481
45°	6862	7455	8751
50°	5729	6246	7291
55°	4863	5360	6021
60°	4157	4646	4805
65°	3310	3908	3104
70°	2935	3050	1895
75°	2716	2474	1160
80°	2504	2274	1002
85°	2265	2089	819



TEST NUMBER: P519425

CATALOG NUMBER: SQ4-WB-100U-100D-940-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	2.8
10°-20°	698.6	7.4
20°-30°	904.9	9.5
30°-40°	886.1	9.4
40°-50°	678.2	7.2
50°-60°	451.9	4.8
60°-70°	246.6	2.6
70°-80°	102.8	1.1
80°-90°	30.8	0.3
90°-100°	375.4	4.0
100°-110°	1036.3	10.9
110°-120°	1068.7	11.3
120°-130°	858.8	9.1
130°-140°	674.9	7.1
140°-150°	517.7	5.5
150°-160°	372.0	3.9
160°-170°	227.5	2.4
170°-180°	76.7	0.8
0°-30°	1872.0	19.8
0°-40°	2758.1	29.1
0°-60°	3888.2	41.0
0°-90°	4268.4	45.0
90°-120°	2480.4	26.2
90°-150°	4531.8	47.8
90°-180°	5208.0	55.0
0°-180°	9476.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2928	2928	2928	2928	2928	
5°	2880	2852	2870	2877	2887	268
15°	2436	2427	2492	2560	2604	680
25°	1862	1867	1963	2049	2139	856
35°	1316	1322	1411	1506	1612	818
45°	789	804	857	922	1006	615
55°	454	472	500	519	562	411
65°	227	246	268	235	213	236
75°	114	114	104	71	49	122
85°	32	32	30	19	12	35
90°	3	5	10	12	13	5
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

TEST NUMBER: P519425

CATALOG NUMBER: SQ4-WB-100U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2928.1	2928.1	2928.1	2928.1	2928.1
2.5°	2935.3	2909.1	2915.7	2915.5	2907.5
5°	2880.5	2851.6	2870.2	2876.9	2886.9
7.5°	2773.6	2751.8	2785.7	2810.8	2831.2
10°	2690.4	2671.5	2714.8	2751.4	2777.7
12.5°	2593.8	2577.9	2631.5	2680.6	2715.0
15°	2436.0	2427.2	2492.5	2560.3	2604.3
17.5°	2267.2	2262.9	2337.8	2417.0	2473.2
20°	2152.0	2150.8	2233.0	2315.4	2380.7
22.5°	2035.9	2038.7	2125.1	2210.8	2285.1
25°	1861.7	1866.7	1963.2	2048.7	2139.2
27.5°	1700.6	1702.8	1802.6	1892.9	1989.4
30°	1590.6	1596.9	1694.7	1788.2	1888.7
32.5°	1480.6	1487.9	1583.6	1680.3	1782.8
35°	1315.6	1321.9	1410.7	1505.6	1612.4
37.5°	1145.5	1154.1	1232.9	1322.6	1427.7
40°	1035.5	1048.1	1117.8	1202.3	1305.4
42.5°	929.7	945.3	1009.9	1090.1	1183.0
45°	788.9	803.9	857.0	921.8	1006.0
47.5°	667.6	684.9	725.7	781.5	853.4
50°	598.7	615.0	652.7	694.0	761.9
52.5°	538.1	554.4	587.9	619.8	677.6
55°	453.5	472.4	499.8	518.7	561.5
57.5°	384.2	402.2	424.0	432.5	458.4
60°	337.9	358.0	377.7	376.8	390.6
62.5°	295.8	312.8	332.5	318.9	319.7
65°	227.4	246.3	268.5	234.6	213.3
67.5°	183.7	187.7	210.7	163.6	138.2
70°	163.2	163.2	169.6	126.7	105.4
72.5°	143.6	143.6	137.7	103.0	80.7
75°	114.3	114.3	104.1	71.4	48.8
77.5°	88.1	87.1	79.7	53.3	35.5
80°	70.7	70.7	64.2	42.1	28.3
82.5°	55.2	55.2	49.9	32.9	21.1
85°	32.1	32.1	29.6	19.1	11.6
87.5°	11.8	12.3	12.3	8.5	7.7
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



TEST NUMBER: P519425

CATALOG NUMBER: SQ4-WB-100U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)