

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: P519421

Luminaire Tested: **SQ4-WB-100U-100D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519421
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

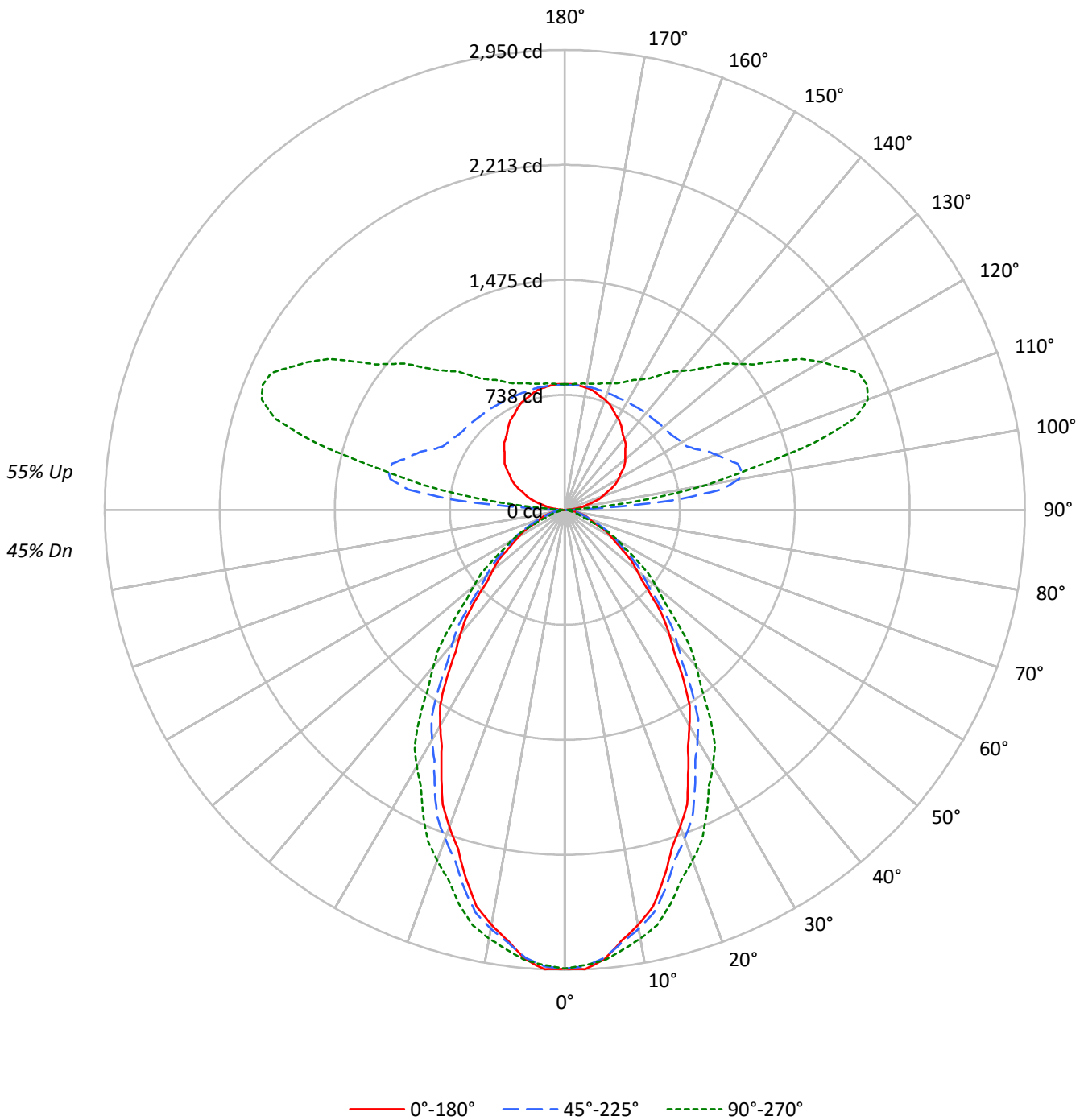
Lumens per Lamp: N/A
Luminaire Lumens: 9524.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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: P519421
CATALOG NUMBER: SQ4-WB-100U-100D-935-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P519421

CATALOG NUMBER: SQ4-WB-100U-100D-935-1D-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	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°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17437
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12097	13482
35°	9929	10647	12169
40°	8357	9021	10534
45°	6897	7492	8795
50°	5759	6277	7328
55°	4888	5386	6051
60°	4178	4671	4830
65°	3327	3928	3120
70°	2949	3066	1904
75°	2731	2486	1167
80°	2515	2288	1006
85°	2279	2096	819



TEST NUMBER: P519421

CATALOG NUMBER: SQ4-WB-100U-100D-935-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	2.8
10°-20°	702.1	7.4
20°-30°	909.5	9.5
30°-40°	890.6	9.4
40°-50°	681.7	7.2
50°-60°	454.2	4.8
60°-70°	247.9	2.6
70°-80°	103.3	1.1
80°-90°	30.9	0.3
90°-100°	377.3	4.0
100°-110°	1041.6	10.9
110°-120°	1074.2	11.3
120°-130°	863.2	9.1
130°-140°	678.4	7.1
140°-150°	520.3	5.5
150°-160°	373.9	3.9
160°-170°	228.7	2.4
170°-180°	77.1	0.8
0°-30°	1881.5	19.8
0°-40°	2772.1	29.1
0°-60°	3908.1	41.0
0°-90°	4290.2	45.0
90°-120°	2493.0	26.2
90°-150°	4554.9	47.8
90°-180°	5235.0	55.0
0°-180°	9524.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2943	2943	2943	2943	2943	
5°	2895	2866	2885	2892	2902	269
15°	2448	2440	2505	2573	2618	684
25°	1871	1876	1973	2059	2150	861
35°	1322	1329	1418	1513	1621	822
45°	793	808	861	926	1011	618
55°	456	475	502	521	564	413
65°	229	248	270	236	214	238
75°	115	115	105	72	49	123
85°	32	32	30	19	12	35
90°	3	5	10	12	13	6
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	

TEST NUMBER: P519421

CATALOG NUMBER: SQ4-WB-100U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2943.0	2943.0	2943.0	2943.0	2943.0
2.5°	2950.2	2924.0	2930.6	2930.4	2922.3
5°	2895.2	2866.2	2884.9	2891.6	2901.7
7.5°	2787.8	2765.8	2799.9	2825.2	2845.6
10°	2704.1	2685.2	2728.6	2765.4	2791.9
12.5°	2607.0	2591.1	2645.0	2694.3	2728.9
15°	2448.4	2439.6	2505.2	2573.4	2617.6
17.5°	2278.7	2274.4	2349.8	2429.3	2485.9
20°	2163.0	2161.8	2244.4	2327.2	2392.9
22.5°	2046.3	2049.1	2135.9	2222.1	2296.8
25°	1871.2	1876.2	1973.2	2059.2	2150.1
27.5°	1709.2	1711.5	1811.8	1902.6	1999.5
30°	1598.7	1605.0	1703.3	1797.3	1898.3
32.5°	1488.2	1495.5	1591.7	1688.9	1791.9
35°	1322.3	1328.7	1417.9	1513.3	1620.7
37.5°	1151.4	1160.0	1239.2	1329.4	1435.0
40°	1040.8	1053.5	1123.5	1208.5	1312.0
42.5°	934.4	950.1	1015.0	1095.6	1189.1
45°	792.9	808.0	861.3	926.5	1011.1
47.5°	671.0	688.4	729.4	785.5	857.7
50°	601.8	618.2	656.0	697.6	765.8
52.5°	540.8	557.2	590.9	623.0	681.1
55°	455.8	474.8	502.3	521.4	564.3
57.5°	386.1	404.3	426.1	434.7	460.8
60°	339.6	359.8	379.7	378.7	392.6
62.5°	297.3	314.4	334.2	320.5	321.3
65°	228.6	247.5	269.9	235.8	214.4
67.5°	184.7	188.7	211.8	164.5	139.0
70°	164.0	164.0	170.5	127.4	105.9
72.5°	144.4	144.4	138.4	103.6	81.1
75°	114.9	114.9	104.6	71.8	49.1
77.5°	88.6	87.6	80.1	53.6	35.6
80°	71.0	71.0	64.6	42.3	28.4
82.5°	55.5	55.5	50.1	33.0	21.2
85°	32.3	32.3	29.7	19.2	11.6
87.5°	11.9	12.4	12.4	8.5	7.7
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6

TEST NUMBER: P519421

CATALOG NUMBER: SQ4-WB-100U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)