

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: P519416

Luminaire Tested: **SQ4-WB-100U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519416
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

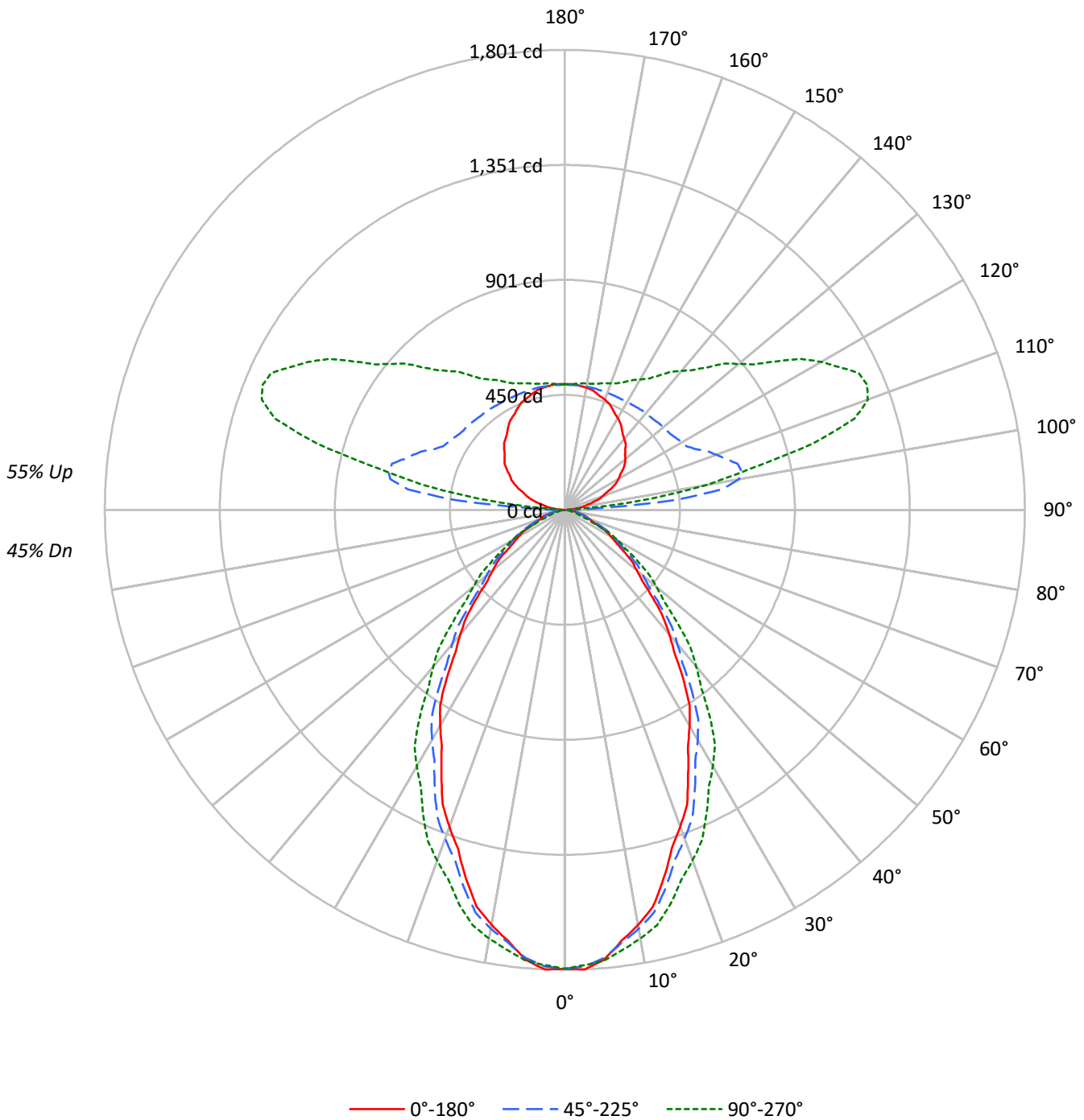
Lumens per Lamp: N/A
Luminaire Lumens: 5815.4 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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



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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	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°	16579	16579	16579
5°	16371	16313	16408
10°	15467	15608	15970
15°	14279	14610	15265
20°	12966	13454	14345
25°	11630	12264	13364
30°	10399	11080	12347
35°	9094	9750	11145
40°	7654	8261	9648
45°	6316	6862	8054
50°	5273	5749	6710
55°	4477	4933	5541
60°	3827	4277	4423
65°	3048	3598	2858
70°	2700	2808	1745
75°	2502	2278	1069
80°	2306	2093	919
85°	2085	1916	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	2.8
10°-20°	428.7	7.4
20°-30°	555.3	9.5
30°-40°	543.8	9.4
40°-50°	416.2	7.2
50°-60°	277.3	4.8
60°-70°	151.3	2.6
70°-80°	63.1	1.1
80°-90°	18.9	0.3
90°-100°	230.4	4.0
100°-110°	635.9	10.9
110°-120°	655.9	11.3
120°-130°	527.0	9.1
130°-140°	414.2	7.1
140°-150°	317.7	5.5
150°-160°	228.3	3.9
160°-170°	139.6	2.4
170°-180°	47.1	0.8
0°-30°	1148.8	19.8
0°-40°	1692.5	29.1
0°-60°	2386.1	41.0
0°-90°	2619.4	45.0
90°-120°	1522.1	26.2
90°-150°	2781.0	47.8
90°-180°	3196.0	55.0
0°-180°	5815.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1768	1750	1761	1766	1772	164
15°	1495	1490	1530	1571	1598	417
25°	1142	1146	1205	1257	1313	525
35°	807	811	866	924	990	502
45°	484	493	526	566	617	378
55°	278	290	307	318	344	252
65°	140	151	165	144	131	145
75°	70	70	64	44	30	75
85°	20	20	18	12	7	21
90°	2	3	6	7	8	3
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.9	1796.9	1796.9	1796.9	1796.9
2.5°	1801.3	1785.2	1789.3	1789.2	1784.2
5°	1767.7	1749.9	1761.4	1765.5	1771.6
7.5°	1702.1	1688.7	1709.5	1724.9	1737.4
10°	1651.0	1639.4	1666.0	1688.4	1704.6
12.5°	1591.7	1582.0	1614.9	1645.0	1666.1
15°	1494.9	1489.5	1529.6	1571.2	1598.2
17.5°	1391.3	1388.7	1434.6	1483.2	1517.7
20°	1320.6	1319.9	1370.3	1420.9	1461.0
22.5°	1249.4	1251.1	1304.1	1356.7	1402.3
25°	1142.4	1145.5	1204.7	1257.2	1312.8
27.5°	1043.6	1045.0	1106.2	1161.6	1220.8
30°	976.1	979.9	1040.0	1097.3	1159.0
32.5°	908.6	913.1	971.8	1031.1	1094.0
35°	807.4	811.2	865.7	924.0	989.5
37.5°	703.0	708.2	756.6	811.7	876.1
40°	635.5	643.2	685.9	737.8	801.1
42.5°	570.5	580.1	619.7	668.9	726.0
45°	484.1	493.4	525.9	565.7	617.3
47.5°	409.7	420.3	445.3	479.6	523.7
50°	367.4	377.4	400.5	425.9	467.5
52.5°	330.2	340.2	360.8	380.4	415.8
55°	278.3	289.9	306.7	318.3	344.5
57.5°	235.7	246.8	260.2	265.4	281.3
60°	207.4	219.7	231.8	231.2	239.7
62.5°	181.5	192.0	204.0	195.7	196.2
65°	139.6	151.1	164.8	144.0	130.9
67.5°	112.7	115.2	129.3	100.4	84.8
70°	100.1	100.1	104.1	77.8	64.7
72.5°	88.1	88.1	84.5	63.2	49.5
75°	70.2	70.2	63.9	43.8	30.0
77.5°	54.1	53.5	48.9	32.7	21.8
80°	43.4	43.4	39.4	25.8	17.3
82.5°	33.9	33.9	30.6	20.2	12.9
85°	19.7	19.7	18.1	11.7	7.1
87.5°	7.3	7.6	7.6	5.2	4.7
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.2	58.8	105.1	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.2
100°	72.4	148.6	693.4	698.3	567.4
102.5°	88.1	158.8	707.8	862.7	738.7
105°	113.3	174.9	699.7	1068.1	1005.8
107.5°	140.1	194.9	660.6	1167.2	1190.0
110°	159.0	208.2	630.4	1188.5	1262.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)