

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: P519224

Luminaire Tested: **SQ4-WB-075U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519224
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

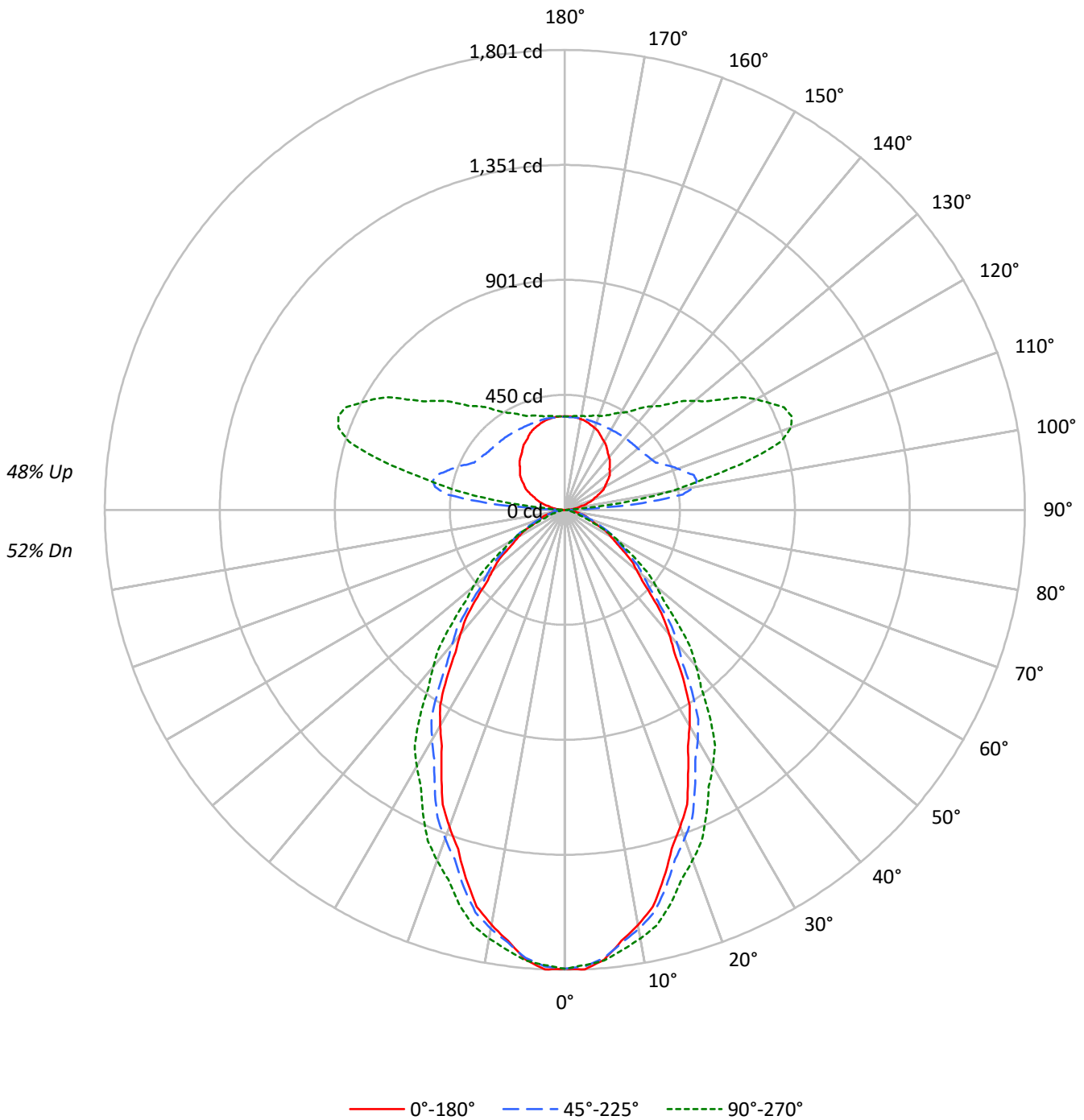
Lumens per Lamp: N/A
Luminaire Lumens: 5001.6 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18

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	3.3
10°-20°	428.7	8.6
20°-30°	555.3	11.1
30°-40°	543.8	10.9
40°-50°	416.2	8.3
50°-60°	277.3	5.5
60°-70°	151.3	3.0
70°-80°	63.1	1.3
80°-90°	18.8	0.4
90°-100°	172.5	3.4
100°-110°	474.5	9.5
110°-120°	489.8	9.8
120°-130°	392.4	7.8
130°-140°	308.2	6.2
140°-150°	236.2	4.7
150°-160°	169.8	3.4
160°-170°	103.8	2.1
170°-180°	35.0	0.7
0°-30°	1148.8	23.0
0°-40°	1692.5	33.8
0°-60°	2386.1	47.7
0°-90°	2619.3	52.4
90°-120°	1136.8	22.7
90°-150°	2073.6	41.5
90°-180°	2382.0	47.6
0°-180°	5001.6	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°	1	3	5	7	7	3
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

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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°	7.1	7.6	7.4	5.2	4.6
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)