

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: P519594

Luminaire Tested: **SQ4-WB-150U-075D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519594
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-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

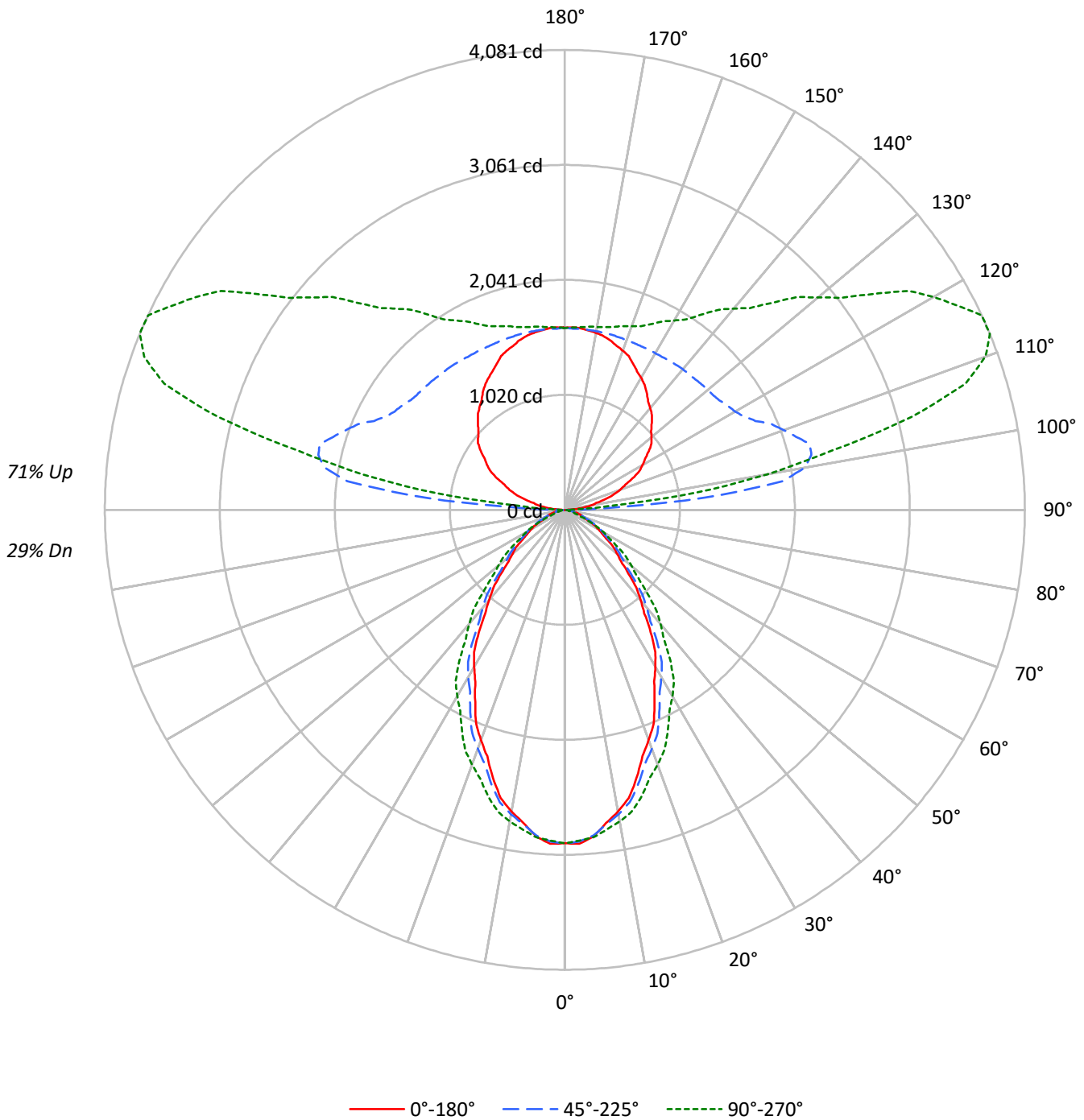
Lumens per Lamp: N/A
Luminaire Lumens: 14729.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13648	13648	13648
5°	13477	13429	13507
10°	12733	12849	13147
15°	11755	12027	12567
20°	10674	11076	11808
25°	9574	10097	11002
30°	8561	9120	10165
35°	7486	8027	9175
40°	6301	6801	7942
45°	5200	5649	6631
50°	4341	4733	5525
55°	3685	4062	4563
60°	3150	3522	3641
65°	2508	2961	2352
70°	2224	2312	1435
75°	2059	1873	879
80°	1897	1724	760
85°	1720	1583	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	1.8
10°-20°	705.8	4.8
20°-30°	914.2	6.2
30°-40°	895.3	6.1
40°-50°	685.3	4.7
50°-60°	456.6	3.1
60°-70°	249.2	1.7
70°-80°	103.8	0.7
80°-90°	32.8	0.2
90°-100°	750.7	5.1
100°-110°	2029.9	13.8
110°-120°	2134.1	14.5
120°-130°	1733.5	11.8
130°-140°	1359.8	9.2
140°-150°	1043.6	7.1
150°-160°	750.6	5.1
160°-170°	458.5	3.1
170°-180°	154.6	1.0
0°-30°	1891.4	12.8
0°-40°	2786.7	18.9
0°-60°	3928.6	26.7
0°-90°	4314.4	29.3
90°-120°	4914.7	33.4
90°-150°	9051.5	61.5
90°-180°	10415.0	70.7
0°-180°	14729.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2910	2881	2900	2907	2917	271
15°	2461	2452	2518	2587	2631	687
25°	1881	1886	1984	2070	2161	865
35°	1329	1336	1425	1521	1629	826
45°	797	812	866	931	1016	622
55°	458	477	505	524	567	415
65°	230	249	271	237	216	239
75°	116	116	105	72	49	123
85°	32	32	30	19	12	35
90°	4	10	23	24	23	9
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	2965.7	2939.3	2946.0	2945.8	2937.7
5°	2910.4	2881.2	2900.0	2906.8	2916.9
7.5°	2802.4	2780.3	2814.6	2840.0	2860.6
10°	2718.3	2699.3	2743.0	2779.9	2806.6
12.5°	2620.7	2604.7	2658.8	2708.4	2743.2
15°	2461.3	2452.4	2518.4	2586.9	2631.3
17.5°	2290.7	2286.4	2362.1	2442.0	2498.9
20°	2174.4	2173.1	2256.2	2339.4	2405.4
22.5°	2057.0	2059.8	2147.1	2233.7	2308.9
25°	1881.0	1886.1	1983.6	2070.0	2161.4
27.5°	1718.2	1720.5	1821.3	1912.6	2010.0
30°	1607.1	1613.4	1712.2	1806.7	1908.3
32.5°	1496.0	1503.3	1600.1	1697.7	1801.3
35°	1329.3	1335.6	1425.4	1521.3	1629.2
37.5°	1157.4	1166.0	1245.7	1336.4	1442.5
40°	1046.3	1059.0	1129.4	1214.8	1318.9
42.5°	939.3	955.1	1020.3	1101.4	1195.3
45°	797.1	812.3	865.9	931.4	1016.4
47.5°	674.5	692.0	733.2	789.6	862.2
50°	604.9	621.4	659.5	701.3	769.8
52.5°	543.7	560.2	594.0	626.2	684.6
55°	458.2	477.3	505.0	524.1	567.3
57.5°	388.1	406.4	428.4	437.0	463.2
60°	341.4	361.7	381.7	380.7	394.6
62.5°	298.8	316.1	336.0	322.2	323.0
65°	229.8	248.8	271.3	237.1	215.5
67.5°	185.6	189.7	212.9	165.3	139.7
70°	164.9	164.9	171.4	128.0	106.4
72.5°	145.1	145.1	139.2	104.1	81.5
75°	115.5	115.5	105.1	72.2	49.3
77.5°	89.1	88.0	80.5	53.9	35.8
80°	71.4	71.4	64.9	42.5	28.6
82.5°	55.8	55.8	50.4	33.2	21.3
85°	32.5	32.5	29.9	19.3	11.7
87.5°	12.1	13.5	14.9	11.1	9.7
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)