

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: P519642

Luminaire Tested: **SQ4-WB-150U-125D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519642
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-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

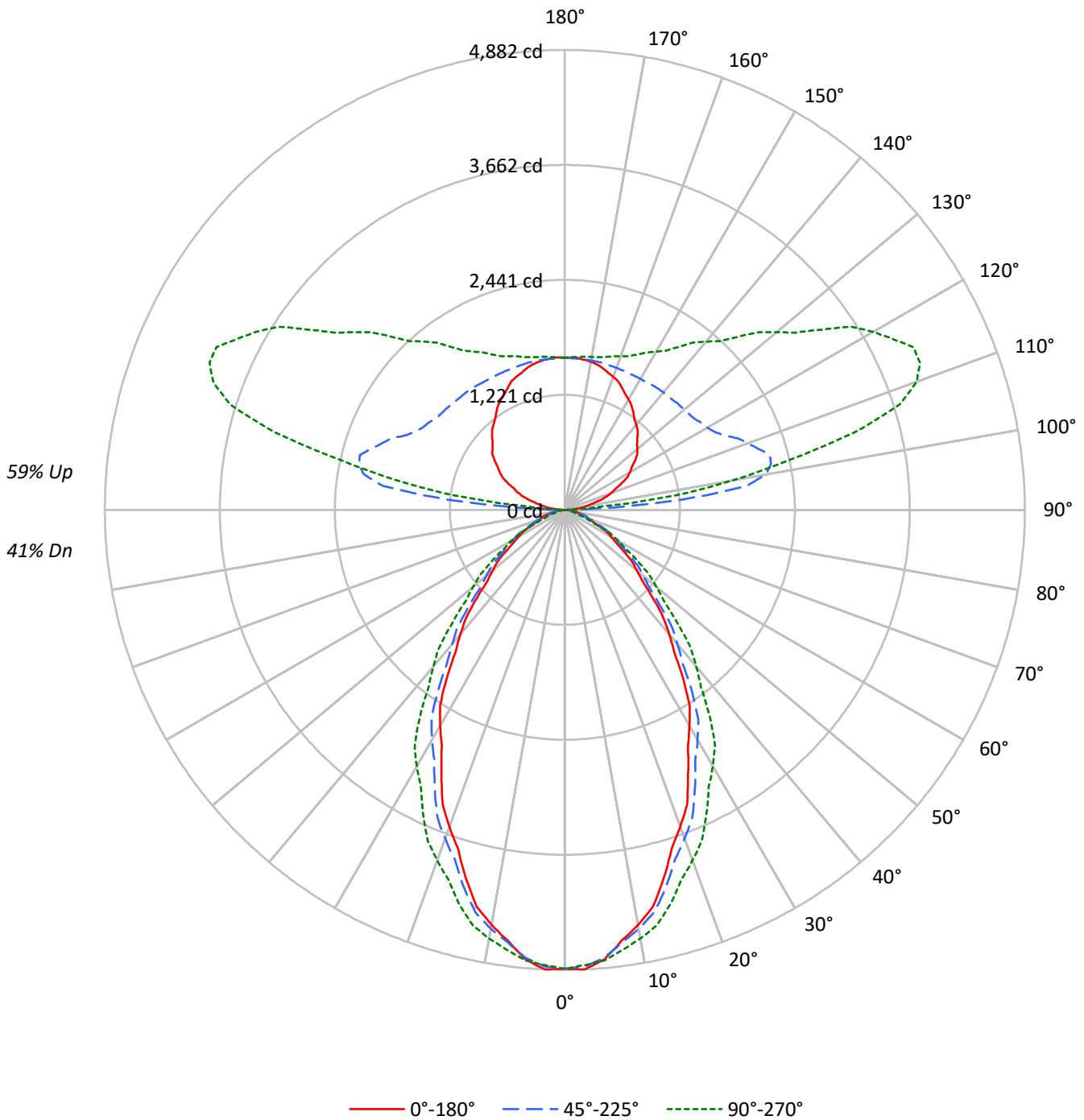
Lumens per Lamp: N/A
Luminaire Lumens: 17515.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41				41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36				36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32				32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28				28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25				25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22				22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20				20
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18				18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17				17
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15				15
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14				14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22469	22469	22469
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14094	15016	16735
35°	12324	13215	15104
40°	10373	11197	13076
45°	8561	9300	10917
50°	7147	7792	9095
55°	6067	6687	7511
60°	5186	5797	5994
65°	4129	4876	3873
70°	3661	3805	2363
75°	3390	3085	1447
80°	3121	2840	1249
85°	2826	2604	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.7	2.6
10°-20°	1162.0	6.6
20°-30°	1505.1	8.6
30°-40°	1473.9	8.4
40°-50°	1128.2	6.4
50°-60°	751.8	4.3
60°-70°	410.2	2.3
70°-80°	170.9	1.0
80°-90°	51.8	0.3
90°-100°	750.7	4.3
100°-110°	2029.9	11.6
110°-120°	2134.1	12.2
120°-130°	1733.5	9.9
130°-140°	1359.8	7.8
140°-150°	1043.6	6.0
150°-160°	750.6	4.3
160°-170°	458.5	2.6
170°-180°	154.6	0.9
0°-30°	3113.9	17.8
0°-40°	4587.8	26.2
0°-60°	6467.7	36.9
0°-90°	7100.7	40.5
90°-120°	4914.7	28.1
90°-150°	9051.5	51.7
90°-180°	10415.0	59.5
0°-180°	17515.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4871	4871	4871	4871	4871	
5°	4792	4743	4774	4786	4802	446
15°	4052	4037	4146	4259	4332	1132
25°	3097	3105	3266	3408	3558	1424
35°	2188	2199	2347	2504	2682	1361
45°	1312	1337	1426	1533	1673	1023
55°	754	786	831	863	934	684
65°	378	410	447	390	355	393
75°	190	190	173	119	81	203
85°	53	53	49	32	19	58
90°	4	10	23	24	23	10
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°	4870.6	4870.6	4870.6	4870.6	4870.6
2.5°	4882.5	4839.1	4850.0	4849.7	4836.4
5°	4791.5	4743.4	4774.4	4785.5	4802.2
7.5°	4613.7	4577.3	4633.8	4675.6	4709.4
10°	4475.2	4443.8	4515.8	4576.6	4620.5
12.5°	4314.5	4288.1	4377.3	4459.0	4516.2
15°	4052.0	4037.4	4146.1	4258.9	4332.0
17.5°	3771.2	3764.1	3888.8	4020.4	4114.0
20°	3579.7	3577.6	3714.4	3851.5	3960.1
22.5°	3386.5	3391.1	3534.8	3677.4	3801.1
25°	3096.7	3105.1	3265.6	3407.9	3558.4
27.5°	2828.7	2832.5	2998.4	3148.7	3309.2
30°	2645.8	2656.2	2818.9	2974.4	3141.6
32.5°	2462.9	2475.0	2634.3	2795.0	2965.5
35°	2188.4	2198.9	2346.6	2504.5	2682.1
37.5°	1905.5	1919.7	2050.8	2200.1	2374.8
40°	1722.5	1743.4	1859.3	2000.0	2171.3
42.5°	1546.4	1572.4	1679.8	1813.3	1967.9
45°	1312.2	1337.3	1425.5	1533.4	1673.4
47.5°	1110.5	1139.3	1207.1	1300.0	1419.5
50°	995.9	1023.1	1085.7	1154.5	1267.3
52.5°	895.0	922.2	978.0	1031.0	1127.1
55°	754.4	785.8	831.4	862.9	933.9
57.5°	639.0	669.1	705.3	719.5	762.5
60°	562.1	595.5	628.3	626.7	649.7
62.5°	492.0	520.4	553.1	530.5	531.7
65°	378.3	409.6	446.7	390.3	354.8
67.5°	305.6	312.3	350.5	272.2	230.0
70°	271.4	271.4	282.1	210.8	175.2
72.5°	238.9	238.9	229.1	171.4	134.2
75°	190.2	190.2	173.1	118.8	81.2
77.5°	146.6	144.9	132.5	88.7	59.0
80°	117.5	117.5	106.9	70.0	47.0
82.5°	91.9	91.9	82.9	54.7	35.0
85°	53.4	53.4	49.2	31.8	19.2
87.5°	19.5	20.9	21.6	15.1	13.1
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)