

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: P519557

Luminaire Tested: **SQ4-WB-150U-050D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519557
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-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

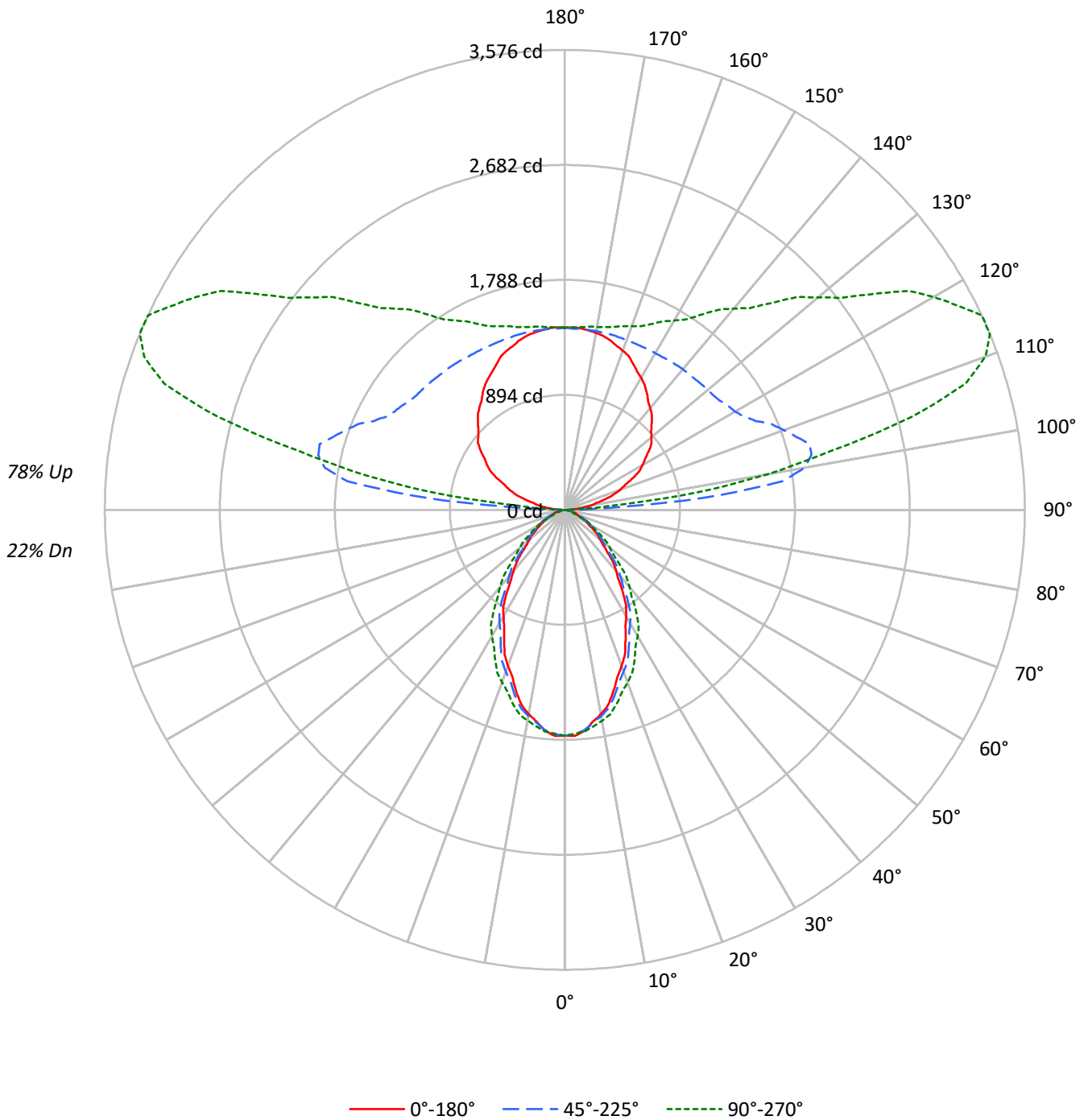
Lumens per Lamp: N/A
Luminaire Lumens: 11687.8 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	62	56	68	61	56	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	63	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	34	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	23	20	17	16	14	11
7	55	44	37	32	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	14	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10797	10797	10797
5°	10662	10624	10686
10°	10074	10165	10401
15°	9300	9515	9942
20°	8445	8763	9342
25°	7575	7987	8704
30°	6773	7216	8042
35°	5922	6350	7259
40°	4985	5380	6284
45°	4114	4469	5246
50°	3434	3744	4371
55°	2916	3213	3610
60°	2492	2786	2881
65°	1984	2343	1861
70°	1759	1829	1137
75°	1630	1483	696
80°	1502	1364	599
85°	1362	1249	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.4
10°-20°	418.8	3.6
20°-30°	542.5	4.6
30°-40°	531.2	4.5
40°-50°	406.6	3.5
50°-60°	270.9	2.3
60°-70°	147.9	1.3
70°-80°	61.6	0.5
80°-90°	20.4	0.2
90°-100°	657.9	5.6
100°-110°	1778.8	15.2
110°-120°	1870.1	16.0
120°-130°	1519.0	13.0
130°-140°	1191.6	10.2
140°-150°	914.5	7.8
150°-160°	657.7	5.6
160°-170°	401.8	3.4
170°-180°	135.5	1.2
0°-30°	1122.3	9.6
0°-40°	1653.5	14.1
0°-60°	2331.0	19.9
0°-90°	2560.9	21.9
90°-120°	4306.8	36.8
90°-150°	7931.9	67.9
90°-180°	9127.0	78.1
0°-180°	11687.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1727	1710	1721	1725	1731	161
15°	1460	1455	1494	1535	1561	408
25°	1116	1119	1177	1228	1282	513
35°	789	792	846	903	967	490
45°	473	482	514	553	603	369
55°	272	283	300	311	337	247
65°	136	148	161	141	128	142
75°	69	69	62	43	29	73
85°	19	19	18	12	7	21
90°	3	9	20	21	20	8
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1759.7	1744.0	1748.0	1747.9	1743.1
5°	1726.9	1709.6	1720.7	1724.7	1730.8
7.5°	1662.8	1649.7	1670.1	1685.1	1697.3
10°	1612.9	1601.6	1627.5	1649.5	1665.3
12.5°	1555.0	1545.5	1577.6	1607.1	1627.7
15°	1460.4	1455.1	1494.3	1534.9	1561.3
17.5°	1359.2	1356.6	1401.5	1449.0	1482.7
20°	1290.2	1289.4	1338.7	1388.1	1427.3
22.5°	1220.5	1222.2	1274.0	1325.4	1370.0
25°	1116.1	1119.1	1176.9	1228.2	1282.5
27.5°	1019.5	1020.9	1080.7	1134.8	1192.7
30°	953.6	957.3	1016.0	1072.0	1132.3
32.5°	887.6	892.0	949.4	1007.3	1068.8
35°	788.7	792.5	845.7	902.6	966.7
37.5°	686.8	691.9	739.1	792.9	855.9
40°	620.8	628.4	670.1	720.8	782.6
42.5°	557.4	566.7	605.4	653.5	709.2
45°	472.9	482.0	513.8	552.6	603.1
47.5°	400.2	410.6	435.0	468.5	511.6
50°	358.9	368.7	391.3	416.1	456.8
52.5°	322.6	332.4	352.5	371.6	406.2
55°	271.9	283.2	299.6	311.0	336.6
57.5°	230.3	241.1	254.2	259.3	274.8
60°	202.6	214.6	226.5	225.9	234.2
62.5°	177.3	187.6	199.3	191.2	191.6
65°	136.3	147.6	161.0	140.7	127.9
67.5°	110.1	112.6	126.3	98.1	82.9
70°	97.8	97.8	101.7	76.0	63.2
72.5°	86.1	86.1	82.6	61.8	48.4
75°	68.6	68.6	62.4	42.8	29.3
77.5°	52.8	52.2	47.8	32.0	21.3
80°	42.4	42.4	38.5	25.2	16.9
82.5°	33.1	33.1	29.9	19.7	12.6
85°	19.3	19.3	17.7	11.5	6.9
87.5°	7.4	8.6	10.1	7.9	7.0
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)