

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: P519391

Luminaire Tested: **SQ4-WB-100U-075D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519391
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-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

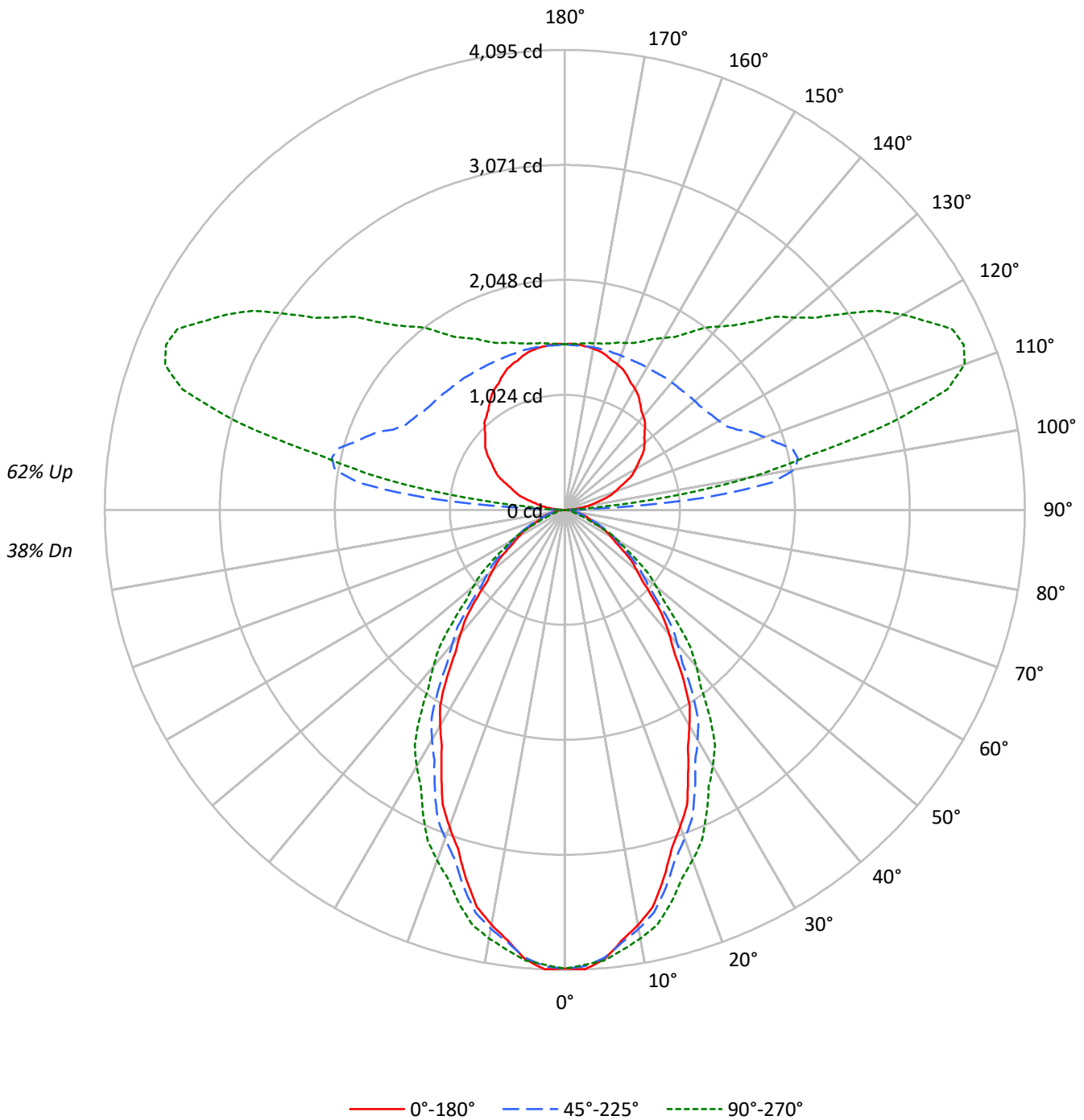
Lumens per Lamp: N/A
Luminaire Lumens: 15543.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 153.4
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	89	85	87	84	81	78	69	67	65	54	53	52	41	41	40	34
2	88	81	76	71	80	74	70	66	61	58	55	49	47	45	38	36	35	30
3	81	72	66	60	74	66	61	56	55	51	47	44	41	39	34	32	31	26
4	75	65	57	52	68	59	53	48	49	45	41	40	37	34	31	29	27	24
5	69	58	51	45	62	53	47	42	45	40	36	36	33	30	29	26	25	21
6	64	52	45	40	58	48	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	40	35	54	44	37	33	37	32	29	30	27	24	24	22	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	23	20	18	16
9	51	40	33	28	47	37	31	26	31	26	23	26	22	20	21	19	17	15
10	48	37	30	25	44	34	28	24	29	24	21	24	21	18	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12563	12563	12563
5°	12406	12362	12433
10°	11721	11827	12102
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4786	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2899	3241	3352
65°	2309	2726	2165
70°	2047	2127	1322
75°	1895	1725	809
80°	1746	1587	698
85°	1581	1454	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.7	2.4
10°-20°	974.6	6.3
20°-30°	1262.3	8.1
30°-40°	1236.1	8.0
40°-50°	946.2	6.1
50°-60°	630.5	4.1
60°-70°	344.1	2.2
70°-80°	143.4	0.9
80°-90°	43.6	0.3
90°-100°	691.1	4.4
100°-110°	1907.8	12.3
110°-120°	1967.5	12.7
120°-130°	1581.1	10.2
130°-140°	1242.6	8.0
140°-150°	953.0	6.1
150°-160°	684.9	4.4
160°-170°	418.9	2.7
170°-180°	141.2	0.9
0°-30°	2611.6	16.8
0°-40°	3847.7	24.8
0°-60°	5424.4	34.9
0°-90°	5955.5	38.3
90°-120°	4566.4	29.4
90°-150°	8343.0	53.7
90°-180°	9588.0	61.7
0°-180°	15543.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4085	4085	4085	4085	4085	
5°	4019	3978	4004	4014	4028	374
15°	3398	3386	3477	3572	3633	949
25°	2597	2604	2739	2858	2984	1194
35°	1835	1844	1968	2100	2250	1141
45°	1100	1122	1196	1286	1404	858
55°	633	659	697	724	783	574
65°	317	344	375	327	298	330
75°	160	160	145	100	68	170
85°	45	45	41	27	16	49
90°	5	9	19	21	24	9
95°	102	374	1254	515	335	109
105°	340	525	2099	3204	3017	362
115°	609	736	1690	3347	3806	599
125°	836	951	1532	2593	3043	744
135°	1006	1114	1490	2100	2368	778
145°	1166	1247	1471	1788	1924	730
155°	1315	1359	1459	1604	1655	606
165°	1424	1442	1466	1523	1535	401
175°	1476	1478	1469	1490	1485	140
180°	1476	1476	1476	1476	1476	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4084.9	4084.9	4084.9	4084.9	4084.9
2.5°	4094.9	4058.5	4067.7	4067.4	4056.2
5°	4018.6	3978.3	4004.2	4013.5	4027.5
7.5°	3869.4	3838.9	3886.3	3921.3	3949.7
10°	3753.3	3727.0	3787.3	3838.4	3875.2
12.5°	3618.5	3596.4	3671.2	3739.7	3787.7
15°	3398.4	3386.1	3477.3	3571.9	3633.2
17.5°	3162.9	3156.9	3261.5	3371.9	3450.4
20°	3002.3	3000.5	3115.2	3230.2	3321.3
22.5°	2840.2	2844.1	2964.6	3084.2	3188.0
25°	2597.2	2604.2	2738.8	2858.2	2984.3
27.5°	2372.4	2375.6	2514.7	2640.8	2775.4
30°	2219.0	2227.8	2364.2	2494.6	2634.8
32.5°	2065.6	2075.7	2209.3	2344.1	2487.1
35°	1835.4	1844.2	1968.1	2100.5	2249.5
37.5°	1598.1	1610.0	1720.0	1845.2	1991.7
40°	1444.7	1462.2	1559.4	1677.4	1821.1
42.5°	1297.0	1318.7	1408.8	1520.8	1650.4
45°	1100.5	1121.6	1195.5	1286.0	1403.5
47.5°	931.3	955.5	1012.3	1090.3	1190.5
50°	835.3	858.0	910.5	968.3	1062.9
52.5°	750.7	773.4	820.2	864.7	945.3
55°	632.7	659.0	697.2	723.7	783.3
57.5°	535.9	561.2	591.5	603.4	639.5
60°	471.4	499.4	527.0	525.6	544.9
62.5°	412.6	436.4	463.9	444.9	445.9
65°	317.3	343.5	374.6	327.3	297.5
67.5°	256.3	261.9	294.0	228.3	192.9
70°	227.6	227.6	236.6	176.8	147.0
72.5°	200.4	200.4	192.1	143.8	112.6
75°	159.5	159.5	145.2	99.7	68.1
77.5°	123.0	121.6	111.1	74.4	49.5
80°	98.6	98.6	89.6	58.7	39.4
82.5°	77.1	77.1	69.5	45.9	29.4
85°	44.8	44.8	41.2	26.6	16.1
87.5°	16.7	17.6	18.1	12.8	11.9
90°	4.7	9.3	18.9	21.3	23.6
92.5°	42.5	176.4	315.4	115.1	89.7
95°	101.5	373.9	1253.7	515.3	335.3
97.5°	168.1	418.8	1857.2	1429.9	1035.6
100°	217.2	445.8	2080.1	2094.8	1702.3
102.5°	264.4	476.4	2123.5	2588.2	2216.1
105°	340.0	524.7	2099.0	3204.4	3017.4
107.5°	420.3	584.6	1981.9	3501.6	3569.9
110°	476.9	624.7	1891.2	3565.5	3787.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	527.9	670.1	1806.2	3515.0	3841.9
115°	609.1	736.1	1690.5	3346.6	3806.0
117.5°	680.0	806.5	1614.5	3109.6	3632.2
120°	727.2	851.9	1584.3	2949.1	3475.5
122.5°	772.5	891.7	1559.7	2799.3	3297.9
125°	835.8	951.2	1532.3	2593.2	3043.4
127.5°	889.6	1005.1	1516.3	2419.0	2807.3
130°	925.5	1041.0	1508.7	2312.4	2665.6
132.5°	959.5	1069.4	1501.2	2222.9	2542.8
135°	1005.8	1114.3	1489.8	2100.3	2368.1
137.5°	1057.7	1156.6	1484.2	1997.4	2226.0
140°	1086.1	1183.0	1480.4	1928.8	2129.7
142.5°	1118.2	1207.8	1476.6	1867.8	2044.7
145°	1166.4	1247.2	1470.9	1788.0	1924.3
147.5°	1212.6	1283.3	1465.7	1720.8	1826.5
150°	1246.6	1304.3	1463.8	1680.6	1766.1
152.5°	1273.1	1327.1	1462.0	1646.3	1717.0
155°	1315.1	1359.0	1459.1	1604.3	1655.1
157.5°	1353.8	1387.5	1459.6	1573.7	1608.3
160°	1376.5	1406.5	1461.5	1556.5	1581.9
162.5°	1395.4	1421.7	1463.4	1541.3	1561.1
165°	1423.7	1442.2	1466.2	1523.1	1534.7
167.5°	1445.4	1456.5	1468.6	1512.1	1515.8
170°	1456.8	1466.0	1468.6	1506.3	1506.3
172.5°	1466.2	1471.7	1468.6	1498.7	1496.9
175°	1475.7	1478.0	1468.6	1489.7	1485.1
177.5°	1479.4	1477.6	1468.1	1481.2	1477.5
180°	1475.7	1475.7	1475.7	1475.7	1475.7

(END OF REPORT)