

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: P519592

Luminaire Tested: **SQ4-WB-150U-075D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519592
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-4
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

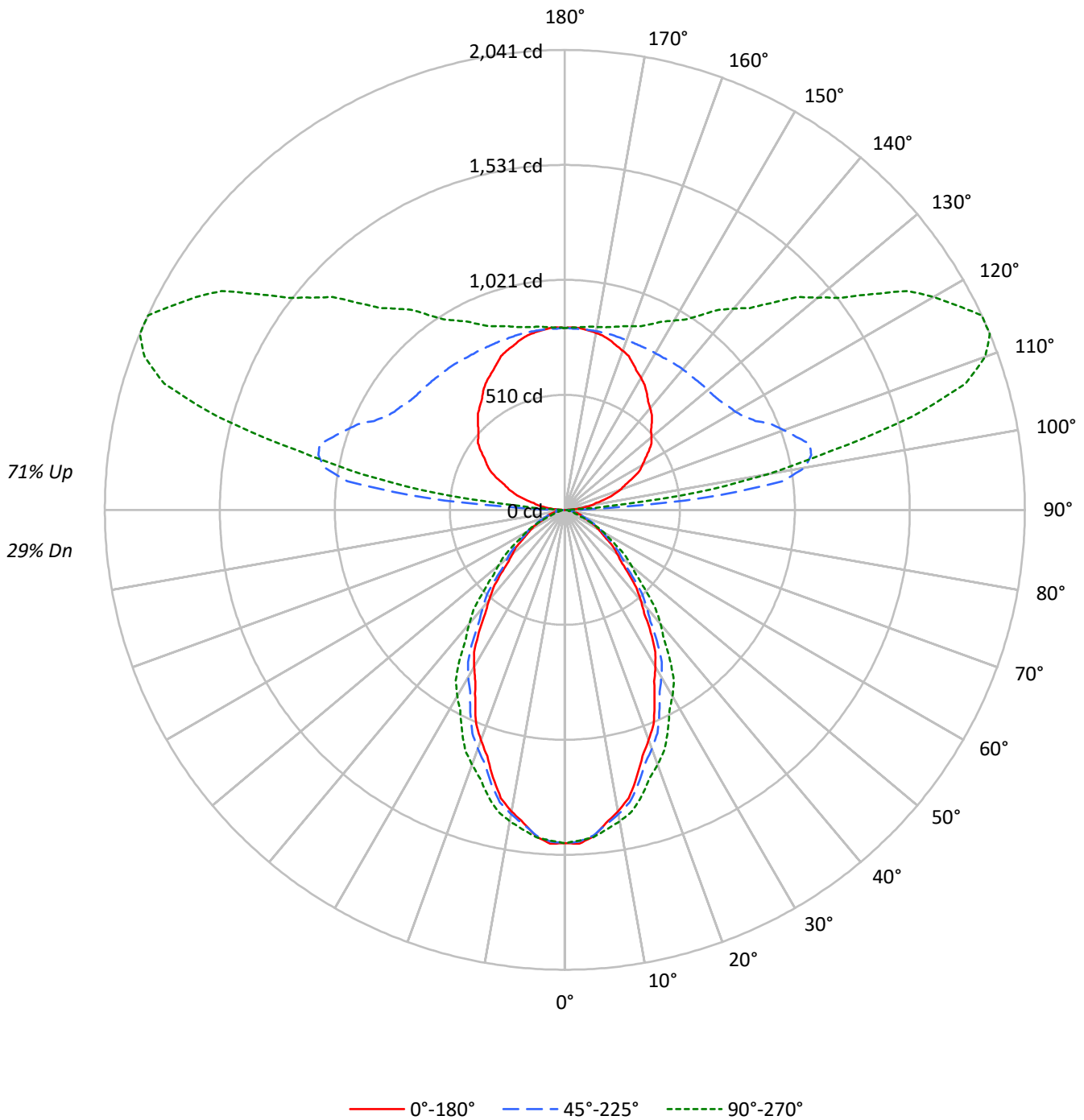
Lumens per Lamp: N/A
Luminaire Lumens: 7364.7 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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°	13647	13647	13647
5°	13477	13429	13508
10°	12733	12849	13147
15°	11754	12027	12567
20°	10674	11076	11808
25°	9574	10097	11002
30°	8560	9120	10165
35°	7485	8027	9175
40°	6300	6801	7943
45°	5200	5648	6631
50°	4342	4732	5525
55°	3685	4062	4562
60°	3150	3521	3641
65°	2508	2962	2351
70°	2223	2312	1435
75°	2060	1875	880
80°	1897	1727	760
85°	1715	1577	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	1.8
10°-20°	352.9	4.8
20°-30°	457.1	6.2
30°-40°	447.6	6.1
40°-50°	342.6	4.7
50°-60°	228.3	3.1
60°-70°	124.6	1.7
70°-80°	51.9	0.7
80°-90°	16.4	0.2
90°-100°	375.4	5.1
100°-110°	1014.9	13.8
110°-120°	1067.1	14.5
120°-130°	866.7	11.8
130°-140°	679.9	9.2
140°-150°	521.8	7.1
150°-160°	375.3	5.1
160°-170°	229.3	3.1
170°-180°	77.3	1.0
0°-30°	945.7	12.8
0°-40°	1393.3	18.9
0°-60°	1964.3	26.7
0°-90°	2157.2	29.3
90°-120°	2457.4	33.4
90°-150°	4525.8	61.5
90°-180°	5208.0	70.7
0°-180°	7364.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1455	1441	1450	1453	1458	135
15°	1231	1226	1259	1293	1316	344
25°	940	943	992	1035	1081	433
35°	665	668	713	761	815	413
45°	398	406	433	466	508	311
55°	229	239	252	262	284	208
65°	115	124	136	118	108	119
75°	58	58	53	36	25	62
85°	16	16	15	10	6	18
90°	2	5	11	12	11	5
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.2	1479.2	1479.2	1479.2	1479.2
2.5°	1482.9	1469.7	1473.0	1472.9	1468.8
5°	1455.2	1440.6	1450.0	1453.4	1458.5
7.5°	1401.2	1390.2	1407.3	1420.0	1430.3
10°	1359.1	1349.6	1371.5	1390.0	1403.3
12.5°	1310.3	1302.3	1329.4	1354.2	1371.6
15°	1230.6	1226.2	1259.2	1293.4	1315.7
17.5°	1145.3	1143.2	1181.0	1221.0	1249.5
20°	1087.2	1086.6	1128.1	1169.7	1202.7
22.5°	1028.5	1029.9	1073.6	1116.9	1154.4
25°	940.5	943.0	991.8	1035.0	1080.7
27.5°	859.1	860.2	910.6	956.3	1005.0
30°	803.5	806.7	856.1	903.4	954.1
32.5°	748.0	751.7	800.0	848.9	900.6
35°	664.6	667.8	712.7	760.6	814.6
37.5°	578.7	583.0	622.8	668.2	721.2
40°	523.1	529.5	564.7	607.4	659.5
42.5°	469.7	477.5	510.2	550.7	597.7
45°	398.5	406.1	432.9	465.7	508.2
47.5°	337.3	346.0	366.6	394.8	431.1
50°	302.5	310.7	329.7	350.6	384.9
52.5°	271.8	280.1	297.0	313.1	342.3
55°	229.1	238.6	252.5	262.1	283.6
57.5°	194.1	203.2	214.2	218.5	231.6
60°	170.7	180.9	190.8	190.3	197.3
62.5°	149.4	158.0	168.0	161.1	161.5
65°	114.9	124.4	135.7	118.5	107.7
67.5°	92.8	94.8	106.4	82.7	69.8
70°	82.4	82.4	85.7	64.0	53.2
72.5°	72.6	72.6	69.6	52.1	40.8
75°	57.8	57.8	52.6	36.1	24.7
77.5°	44.5	44.0	40.2	26.9	17.9
80°	35.7	35.7	32.5	21.3	14.3
82.5°	27.9	27.9	25.2	16.6	10.6
85°	16.2	16.2	14.9	9.6	5.8
87.5°	6.1	6.7	7.5	5.5	4.9
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)