

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522033

Luminaire Tested: **SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522033
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

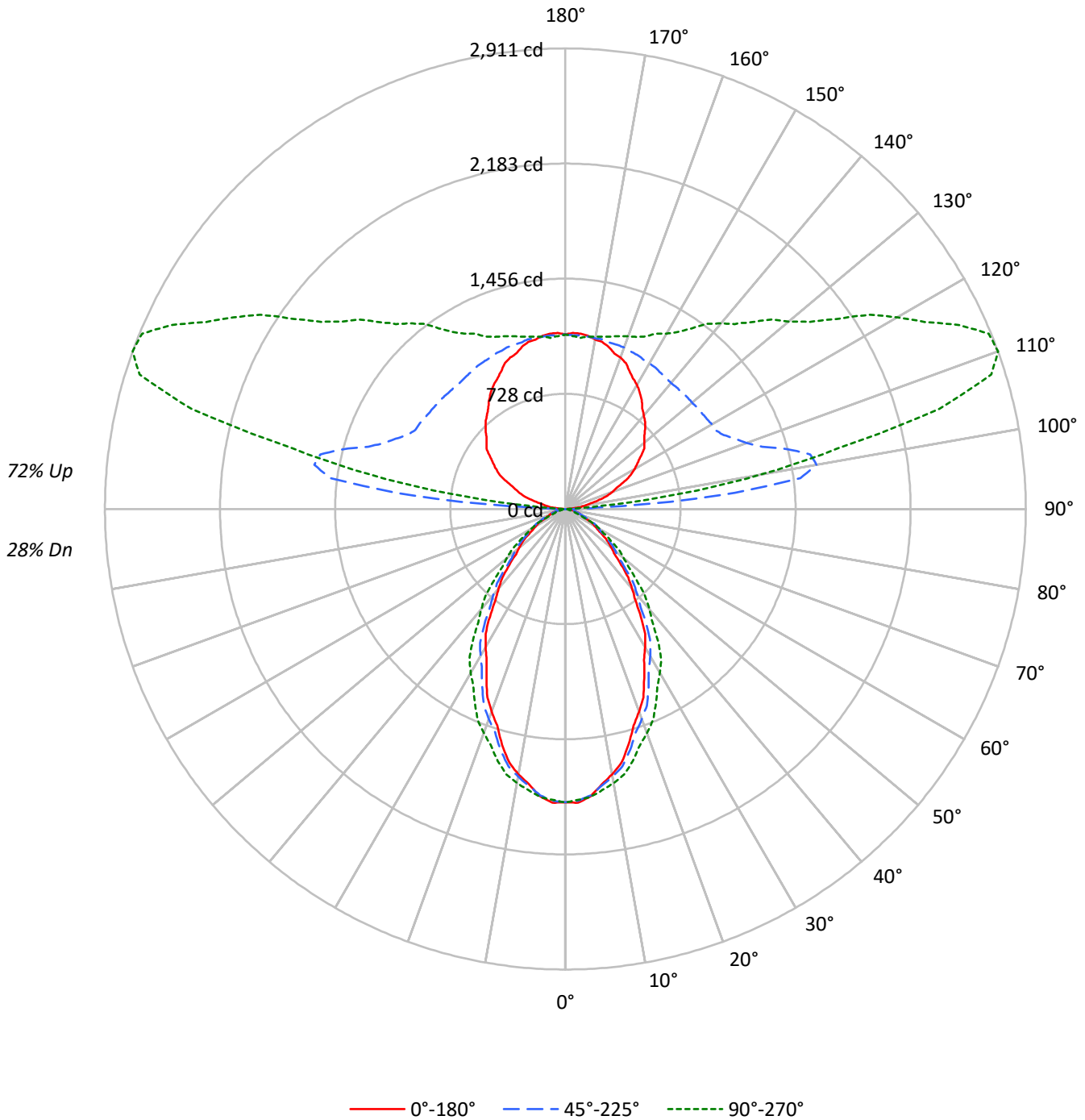
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9549.4 lumens
Efficiency: N/A
Efficacy: 115.1 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): 83
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	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	94	90	86	83	84	80	78	75	63	61	60	47	46	45	33	32	32	25
2	86	79	73	69	77	71	66	62	56	53	50	42	41	39	30	29	28	22
3	79	70	63	58	70	63	57	53	50	46	43	38	36	34	27	26	24	20
4	72	62	55	50	65	56	50	45	45	41	37	34	32	29	25	23	22	17
5	66	56	48	43	59	50	44	39	40	36	32	31	28	26	22	21	19	16
6	61	50	43	37	55	46	39	34	37	32	29	28	25	23	21	19	17	14
7	57	45	38	33	51	41	35	30	33	29	25	26	23	20	19	17	16	13
8	53	41	34	29	47	38	31	27	31	26	23	24	21	18	18	16	14	12
9	49	38	31	26	44	34	28	24	28	24	20	22	19	17	16	14	13	11
10	46	35	28	23	41	32	26	22	26	21	18	20	17	15	15	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17103	17103	17103
5°	16889	16828	16926
10°	15956	16101	16475
15°	14730	15072	15748
20°	13376	13879	14798
25°	11998	12652	13786
30°	10727	11429	12737
35°	9381	10059	11497
40°	7896	8522	9953
45°	6516	7078	8310
50°	5440	5931	6923
55°	4618	5089	5717
60°	3947	4412	4563
65°	3144	3711	2947
70°	2787	2897	1799
75°	2581	2349	1102
80°	2375	2162	951
85°	2149	1980	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	1.8
10°-20°	442.2	4.6
20°-30°	572.8	6.0
30°-40°	560.9	5.9
40°-50°	429.4	4.5
50°-60°	286.1	3.0
60°-70°	156.1	1.6
70°-80°	65.0	0.7
80°-90°	18.4	0.2
90°-100°	502.4	5.3
100°-110°	1429.4	15.0
110°-120°	1369.6	14.3
120°-130°	1083.9	11.4
130°-140°	870.0	9.1
140°-150°	681.1	7.1
150°-160°	498.4	5.2
160°-170°	308.7	3.2
170°-180°	104.8	1.1
0°-30°	1185.1	12.4
0°-40°	1746.0	18.3
0°-60°	2461.5	25.8
0°-90°	2701.1	28.3
90°-120°	3301.4	34.6
90°-150°	5936.5	62.2
90°-180°	6848.0	71.7
0°-180°	9549.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1824	1805	1817	1821	1828	170
15°	1542	1537	1578	1621	1649	431
25°	1179	1182	1243	1297	1354	542
35°	833	837	893	953	1021	518
45°	499	509	542	584	637	389
55°	287	299	316	328	355	260
65°	144	156	170	148	135	150
75°	72	72	66	45	31	77
85°	20	20	19	12	7	22
90°	0	0	0	0	0	3
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1853.7	1853.7	1853.7	1853.7	1853.7
2.5°	1858.2	1841.7	1845.8	1845.7	1840.6
5°	1823.6	1805.3	1817.0	1821.3	1827.6
7.5°	1755.9	1742.0	1763.5	1779.4	1792.3
10°	1703.2	1691.2	1718.6	1741.8	1758.5
12.5°	1642.0	1632.0	1665.9	1697.0	1718.8
15°	1542.1	1536.6	1577.9	1620.8	1648.7
17.5°	1435.3	1432.6	1480.0	1530.1	1565.7
20°	1362.4	1361.6	1413.6	1465.8	1507.2
22.5°	1288.9	1290.6	1345.3	1399.6	1446.6
25°	1178.6	1181.7	1242.8	1297.0	1354.2
27.5°	1076.6	1078.0	1141.1	1198.3	1259.4
30°	1006.9	1010.9	1072.8	1132.0	1195.6
32.5°	937.3	941.9	1002.5	1063.7	1128.6
35°	832.9	836.9	893.1	953.2	1020.8
37.5°	725.2	730.6	780.5	837.3	903.8
40°	655.6	663.5	707.6	761.2	826.4
42.5°	588.5	598.4	639.3	690.1	748.9
45°	499.4	508.9	542.5	583.6	636.9
47.5°	422.6	433.6	459.4	494.7	540.2
50°	379.0	389.4	413.2	439.4	482.3
52.5°	340.6	351.0	372.2	392.4	429.0
55°	287.1	299.0	316.4	328.4	355.4
57.5°	243.2	254.6	268.4	273.8	290.2
60°	213.9	226.6	239.1	238.5	247.3
62.5°	187.2	198.1	210.5	201.9	202.4
65°	144.0	155.9	170.0	148.5	135.0
67.5°	116.3	118.9	133.4	103.6	87.5
70°	103.3	103.3	107.4	80.2	66.7
72.5°	90.9	90.9	87.2	65.2	51.1
75°	72.4	72.4	65.9	45.2	30.9
77.5°	55.8	55.2	50.4	33.7	22.4
80°	44.7	44.7	40.7	26.6	17.9
82.5°	35.0	35.0	31.6	20.8	13.3
85°	20.3	20.3	18.7	12.1	7.3
87.5°	7.2	7.2	6.5	3.9	3.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)