

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: P519453

Luminaire Tested: **SQ4-WB-125U-050D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519453
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

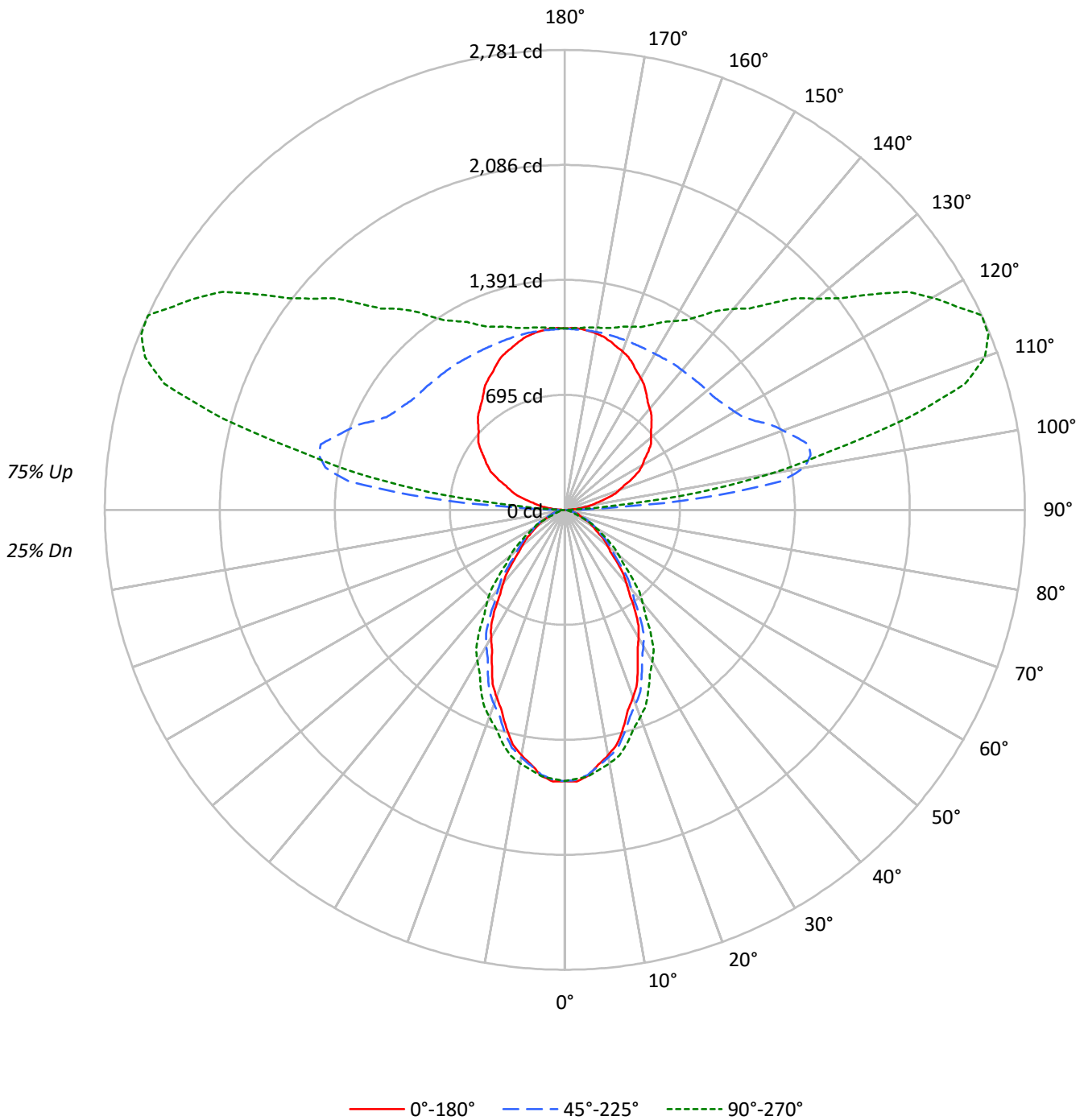
Lumens per Lamp: N/A
Luminaire Lumens: 9471.2 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	62	55	52	49	41	39	37	27	26	26	20
3	78	69	63	57	69	62	57	52	49	45	42	36	34	32	25	24	22	17
4	71	62	54	49	64	55	49	45	44	39	36	33	30	28	23	21	20	16
5	66	55	48	42	59	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	30	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	41	31	25	21	25	21	18	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10090	10090	10090
5°	9964	9928	9986
10°	9414	9499	9720
15°	8690	8892	9291
20°	7891	8188	8730
25°	7078	7464	8133
30°	6329	6743	7515
35°	5535	5934	6783
40°	4659	5028	5872
45°	3845	4176	4903
50°	3209	3499	4084
55°	2725	3003	3373
60°	2329	2603	2692
65°	1854	2189	1739
70°	1644	1708	1061
75°	1523	1385	651
80°	1403	1275	560
85°	1270	1172	459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	1.6
10°-20°	391.4	4.1
20°-30°	506.9	5.4
30°-40°	496.4	5.2
40°-50°	380.0	4.0
50°-60°	253.2	2.7
60°-70°	138.2	1.5
70°-80°	57.6	0.6
80°-90°	18.9	0.2
90°-100°	512.9	5.4
100°-110°	1381.7	14.6
110°-120°	1450.0	15.3
120°-130°	1176.7	12.4
130°-140°	922.8	9.7
140°-150°	708.5	7.5
150°-160°	509.4	5.4
160°-170°	311.2	3.3
170°-180°	105.0	1.1
0°-30°	1048.8	11.1
0°-40°	1545.2	16.3
0°-60°	2178.3	23.0
0°-90°	2393.0	25.3
90°-120°	3344.6	35.3
90°-150°	6152.6	65.0
90°-180°	7078.0	74.7
0°-180°	9471.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1614	1598	1608	1612	1617	150
15°	1365	1360	1396	1434	1459	381
25°	1043	1046	1100	1148	1198	480
35°	737	741	790	844	903	458
45°	442	450	480	516	564	345
55°	254	265	280	291	314	230
65°	127	138	150	131	120	132
75°	64	64	58	40	27	68
85°	18	18	17	11	6	20
90°	3	8	17	18	18	6
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1640.4	1640.4	1640.4	1640.4	1640.4
2.5°	1644.4	1629.8	1633.5	1633.4	1628.9
5°	1613.8	1597.6	1608.0	1611.7	1617.4
7.5°	1553.9	1541.6	1560.6	1574.7	1586.1
10°	1507.2	1496.7	1520.9	1541.4	1556.2
12.5°	1453.1	1444.2	1474.3	1501.8	1521.1
15°	1364.7	1359.8	1396.4	1434.4	1459.0
17.5°	1270.1	1267.7	1309.7	1354.1	1385.6
20°	1205.6	1204.9	1251.0	1297.2	1333.8
22.5°	1140.6	1142.1	1190.5	1238.6	1280.2
25°	1043.0	1045.8	1099.8	1147.8	1198.4
27.5°	952.7	954.0	1009.9	1060.5	1114.5
30°	891.1	894.6	949.4	1001.8	1058.1
32.5°	829.5	833.6	887.2	941.4	998.8
35°	737.1	740.6	790.3	843.5	903.3
37.5°	641.8	646.6	690.7	741.0	799.8
40°	580.2	587.2	626.2	673.6	731.3
42.5°	520.8	529.6	565.8	610.7	662.8
45°	442.0	450.4	480.1	516.4	563.6
47.5°	374.0	383.7	406.5	437.8	478.1
50°	335.4	344.6	365.7	388.8	426.8
52.5°	301.4	310.6	329.4	347.2	379.6
55°	254.1	264.6	280.0	290.6	314.5
57.5°	215.2	225.4	237.5	242.3	256.8
60°	189.3	200.6	211.6	211.1	218.8
62.5°	165.7	175.3	186.3	178.7	179.1
65°	127.4	138.0	150.4	131.4	119.5
67.5°	102.9	105.2	118.0	91.7	77.4
70°	91.4	91.4	95.0	71.0	59.0
72.5°	80.5	80.5	77.2	57.7	45.2
75°	64.1	64.1	58.3	40.0	27.4
77.5°	49.4	48.8	44.6	29.9	19.9
80°	39.6	39.6	36.0	23.6	15.8
82.5°	31.0	31.0	27.9	18.4	11.8
85°	18.0	18.0	16.6	10.7	6.5
87.5°	6.9	8.0	9.1	7.1	6.5
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)