

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: P523909

Luminaire Tested: **SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523909
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

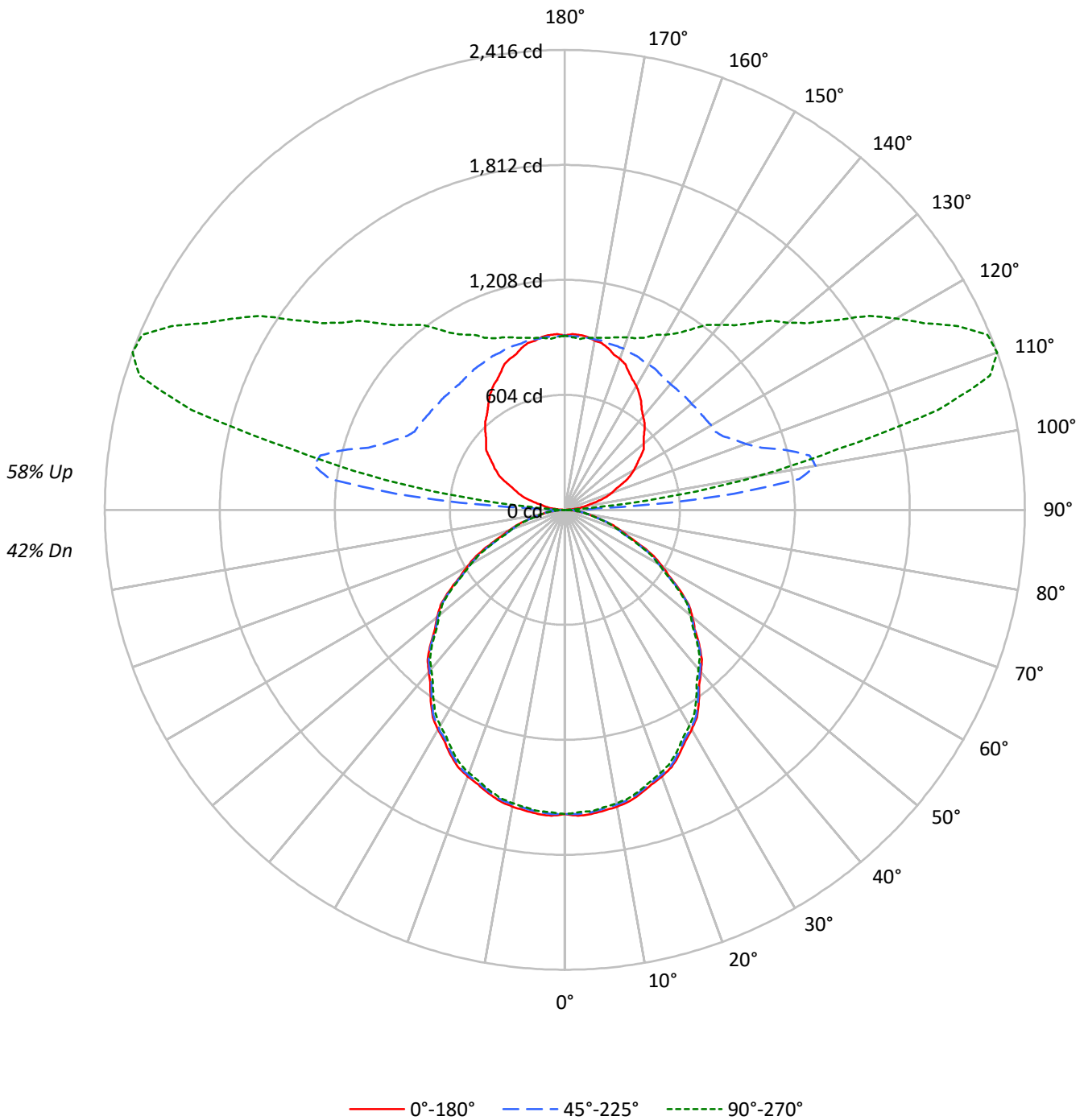
Lumens per Lamp: N/A
Luminaire Lumens: 9774.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.7
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	80	74	69	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	28	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14749	14749	14749
5°	14857	14766	14715
10°	14832	14727	14662
15°	14734	14653	14573
20°	14636	14554	14444
25°	14463	14363	14219
30°	14195	14120	13941
35°	13823	13729	13555
40°	13381	13297	13145
45°	13015	12924	12796
50°	12549	12467	12347
55°	11900	11741	11651
60°	10832	10522	10470
65°	9542	9145	9114
70°	8238	7898	7898
75°	7090	6990	6891
80°	6254	6328	6179
85°	4891	5335	5335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.5
10°-20°	431.6	4.4
20°-30°	646.5	6.6
30°-40°	758.3	7.8
40°-50°	760.7	7.8
50°-60°	648.9	6.6
60°-70°	423.2	4.3
70°-80°	212.3	2.2
80°-90°	58.8	0.6
90°-100°	416.8	4.3
100°-110°	1186.1	12.1
110°-120°	1136.4	11.6
120°-130°	899.4	9.2
130°-140°	721.9	7.4
140°-150°	565.2	5.8
150°-160°	413.5	4.2
160°-170°	256.2	2.6
170°-180°	86.9	0.9
0°-30°	1229.3	12.6
0°-40°	1987.6	20.3
0°-60°	3397.2	34.8
0°-90°	4091.5	41.9
90°-120°	2739.4	28.0
90°-150°	4925.9	50.4
90°-180°	5682.0	58.1
0°-180°	9774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1604	1589	1594	1589	1589	152
15°	1543	1528	1534	1528	1526	435
25°	1421	1404	1411	1398	1397	653
35°	1227	1215	1219	1205	1204	767
45°	998	991	990	981	981	768
55°	740	737	730	726	724	657
65°	437	429	419	416	418	436
75°	199	199	196	195	193	216
85°	46	50	50	50	50	54
90°	0	0	0	0	0	4
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1608.7	1595.5	1598.6	1596.2	1589.6
5°	1604.2	1589.1	1594.4	1588.8	1588.8
7.5°	1593.3	1576.8	1582.1	1576.4	1576.2
10°	1583.2	1566.7	1572.0	1566.3	1565.0
12.5°	1568.6	1552.2	1558.5	1551.8	1551.5
15°	1542.6	1527.5	1534.1	1528.5	1525.7
17.5°	1513.1	1496.7	1504.7	1496.9	1495.8
20°	1490.7	1474.3	1482.3	1471.1	1471.1
22.5°	1463.8	1447.4	1456.5	1442.0	1442.0
25°	1420.7	1404.2	1410.9	1398.2	1396.8
27.5°	1369.4	1353.2	1360.1	1345.8	1345.6
30°	1332.4	1317.3	1325.4	1309.9	1308.6
32.5°	1292.0	1278.1	1283.9	1268.5	1267.1
35°	1227.3	1215.0	1218.9	1204.9	1203.5
37.5°	1159.2	1146.6	1151.1	1139.0	1138.5
40°	1111.0	1102.8	1104.0	1094.2	1091.4
42.5°	1066.2	1056.9	1058.1	1048.2	1047.7
45°	997.5	990.7	990.5	980.7	980.7
47.5°	924.7	919.5	918.0	909.8	909.6
50°	874.3	870.1	868.6	861.6	860.2
52.5°	821.6	819.7	814.8	809.0	808.7
55°	739.8	737.0	729.9	725.7	724.3
57.5°	650.9	645.4	637.5	631.3	632.4
60°	587.0	581.6	570.2	567.4	567.4
62.5°	525.4	518.8	507.5	503.6	505.8
65°	437.1	428.9	418.9	416.1	417.5
67.5°	357.0	349.6	338.8	338.7	337.7
70°	305.4	301.3	292.8	292.8	292.8
72.5°	259.5	257.6	251.3	251.3	250.2
75°	198.9	198.9	196.1	194.7	193.3
77.5°	149.1	149.6	148.2	146.8	144.3
80°	117.7	120.4	119.1	117.7	116.3
82.5°	88.5	91.3	91.1	88.5	88.3
85°	46.2	50.3	50.4	50.4	50.4
87.5°	12.3	16.7	17.9	18.0	19.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)