

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: P561701

Luminaire Tested: **SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561701
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9483.8 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

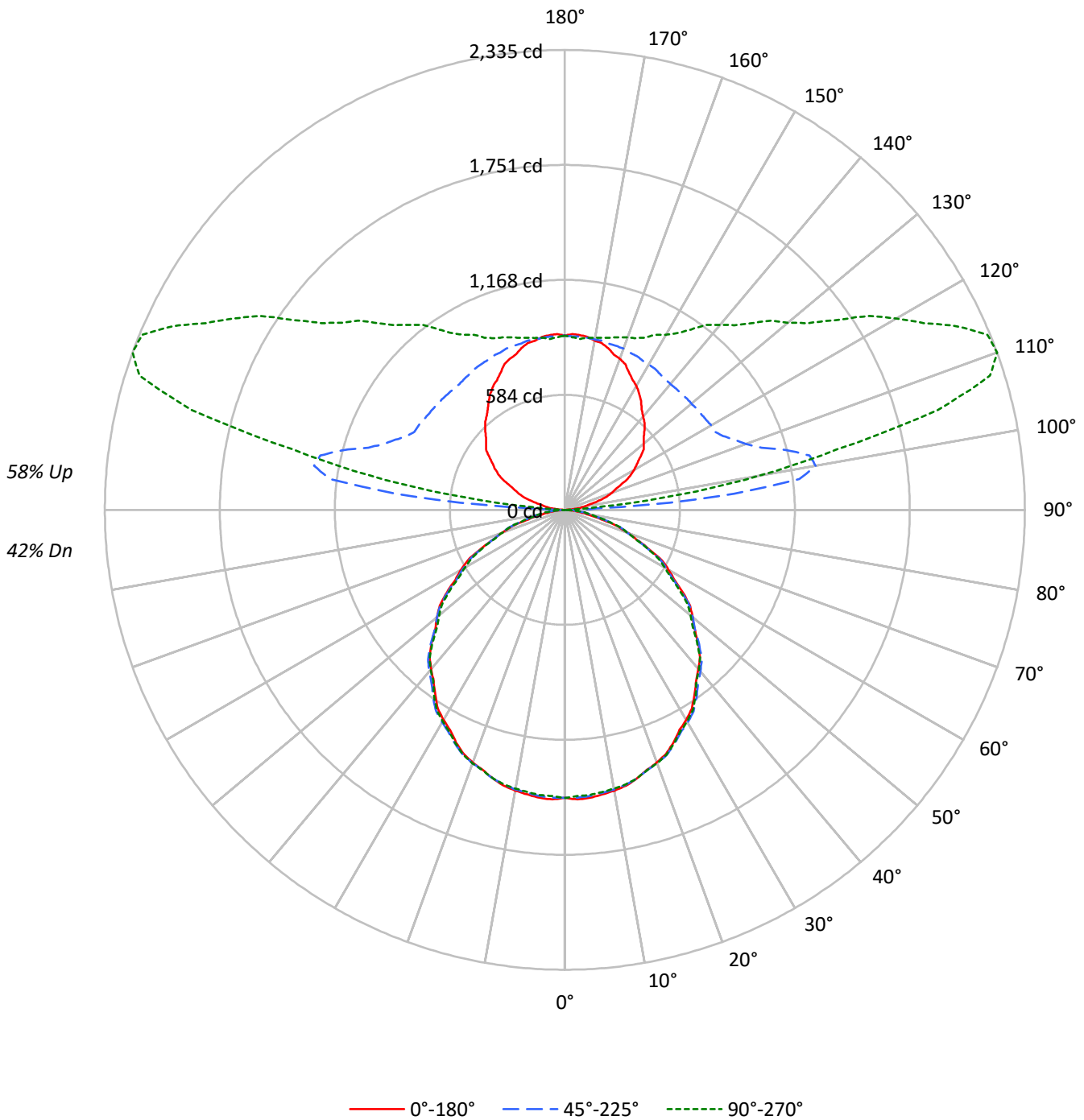
Input Watts (W): 83.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	73	65	58	53	53	49	45	43	40	37	34	32	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13495	13495	13495
5°	13597	13509	13459
10°	13564	13500	13463
15°	13493	13493	13479
20°	13404	13444	13444
25°	13277	13373	13333
30°	13116	13274	13217
35°	12920	13118	13027
40°	12706	12886	12756
45°	12476	12564	12369
50°	12150	12150	11955
55°	11765	11612	11437
60°	11197	10972	10797
65°	10348	10141	10053
70°	9061	9134	9096
75°	7290	8063	8110
80°	5180	6838	6907
85°	3155	5738	5738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.5
10°-20°	397.3	4.2
20°-30°	601.6	6.3
30°-40°	721.2	7.6
40°-50°	735.4	7.8
50°-60°	642.0	6.8
60°-70°	459.6	4.8
70°-80°	236.7	2.5
80°-90°	59.9	0.6
90°-100°	402.9	4.2
100°-110°	1146.3	12.1
110°-120°	1098.3	11.6
120°-130°	869.3	9.2
130°-140°	697.7	7.4
140°-150°	546.2	5.8
150°-160°	399.7	4.2
160°-170°	247.6	2.6
170°-180°	84.0	0.9
0°-30°	1137.3	12.0
0°-40°	1858.5	19.6
0°-60°	3235.8	34.1
0°-90°	3992.0	42.1
90°-120°	2647.5	27.9
90°-150°	4760.6	50.2
90°-180°	5492.0	57.9
0°-180°	9483.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1453	139
15°	1413	1401	1413	1413	1411	398
25°	1304	1295	1314	1310	1310	600
35°	1147	1144	1165	1157	1157	717
45°	956	954	963	951	948	736
55°	731	722	722	711	711	652
65°	474	463	464	460	460	469
75°	204	214	226	228	228	221
85°	30	46	54	56	54	40
90°	0	0	0	0	0	3
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.7	1462.7	1462.7	1462.7	1462.7
2.5°	1471.4	1458.7	1462.7	1459.3	1454.0
5°	1468.1	1453.6	1458.6	1454.5	1453.2
7.5°	1457.6	1443.0	1449.7	1447.0	1445.6
10°	1447.8	1433.2	1441.0	1438.3	1437.0
12.5°	1434.8	1421.3	1430.2	1427.5	1427.2
15°	1412.6	1400.7	1412.6	1412.6	1411.2
17.5°	1384.7	1373.8	1386.6	1387.4	1386.6
20°	1365.2	1353.3	1369.3	1367.9	1369.3
22.5°	1341.4	1331.6	1348.7	1345.2	1346.5
25°	1304.2	1295.0	1313.7	1309.7	1309.7
27.5°	1260.4	1253.7	1274.2	1269.8	1269.8
30°	1231.1	1224.5	1246.0	1240.6	1240.6
32.5°	1198.6	1194.1	1214.6	1208.1	1208.1
35°	1147.1	1144.5	1164.7	1156.6	1156.6
37.5°	1094.0	1091.7	1110.0	1100.2	1097.0
40°	1055.0	1053.7	1069.9	1059.1	1059.1
42.5°	1016.0	1014.7	1028.8	1015.8	1015.8
45°	956.2	953.5	962.9	950.7	948.0
47.5°	890.9	888.2	894.1	880.8	879.5
50°	846.5	843.8	846.5	834.3	832.9
52.5°	801.0	796.2	796.6	784.4	784.2
55°	731.4	722.1	721.9	711.0	711.0
57.5°	657.7	645.5	646.6	637.3	636.0
60°	606.8	593.5	594.6	586.4	585.1
62.5°	556.9	541.5	544.7	535.5	535.2
65°	474.0	463.4	464.5	460.5	460.5
67.5°	394.4	384.6	391.7	388.4	388.2
70°	335.9	329.3	338.6	338.6	337.2
72.5°	281.7	281.4	293.1	293.1	293.9
75°	204.5	213.8	226.2	227.5	227.5
77.5°	136.5	152.9	166.6	167.1	166.9
80°	97.5	116.1	128.7	131.3	130.0
82.5°	66.1	85.7	96.2	98.8	97.5
85°	29.8	45.7	54.2	55.5	54.2
87.5°	8.7	18.2	21.7	21.6	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)