

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: P561702

Luminaire Tested: **SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561702
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

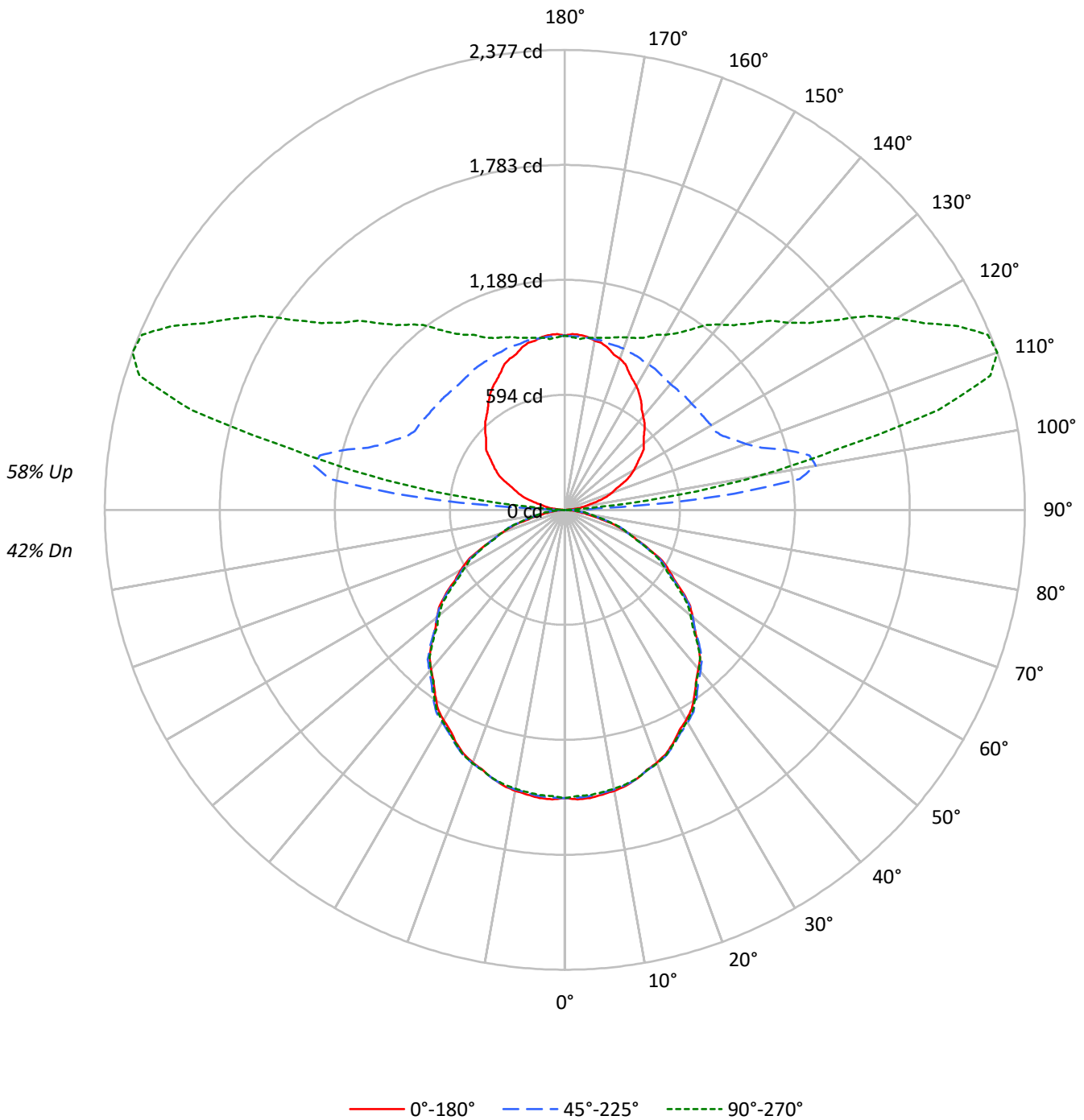
Lumens per Lamp: N/A
Luminaire Lumens: 9657.3 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	13742	13742	13742
5°	13846	13756	13705
10°	13812	13747	13709
15°	13739	13739	13727
20°	13649	13690	13690
25°	13520	13619	13576
30°	13355	13517	13459
35°	13156	13359	13266
40°	12939	13122	12989
45°	12705	12795	12596
50°	12373	12373	12175
55°	11979	11824	11646
60°	11402	11171	10994
65°	10538	10326	10237
70°	9226	9301	9263
75°	7422	8210	8259
80°	5276	6960	7035
85°	3208	5843	5843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.5
10°-20°	404.5	4.2
20°-30°	612.6	6.3
30°-40°	734.4	7.6
40°-50°	748.9	7.8
50°-60°	653.7	6.8
60°-70°	468.0	4.8
70°-80°	241.0	2.5
80°-90°	60.9	0.6
90°-100°	410.2	4.2
100°-110°	1167.3	12.1
110°-120°	1118.4	11.6
120°-130°	885.2	9.2
130°-140°	710.5	7.4
140°-150°	556.2	5.8
150°-160°	407.0	4.2
160°-170°	252.1	2.6
170°-180°	85.5	0.9
0°-30°	1158.1	12.0
0°-40°	1892.5	19.6
0°-60°	3295.0	34.1
0°-90°	4065.0	42.1
90°-120°	2695.9	27.9
90°-150°	4847.7	50.2
90°-180°	5592.0	57.9
0°-180°	9657.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1495	1480	1485	1481	1480	142
15°	1438	1426	1438	1438	1437	406
25°	1328	1319	1338	1334	1334	611
35°	1168	1165	1186	1178	1178	731
45°	974	971	981	968	965	749
55°	745	735	735	724	724	664
65°	483	472	473	469	469	477
75°	208	218	230	232	232	225
85°	30	46	55	56	55	41
90°	0	0	0	0	0	3
95°	44	177	794	275	169	51
105°	181	275	1190	2101	1997	192
115°	337	408	902	1911	2244	332
125°	476	528	861	1429	1708	426
135°	582	630	851	1207	1364	449
145°	686	722	858	1044	1138	429
155°	784	802	878	944	982	362
165°	866	869	888	907	921	244
175°	907	902	899	893	887	86
180°	900	900	900	900	900	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1498.3	1485.3	1489.5	1486.0	1480.6
5°	1495.0	1480.1	1485.3	1481.2	1479.8
7.5°	1484.2	1469.4	1476.2	1473.4	1472.1
10°	1474.3	1459.5	1467.4	1464.6	1463.3
12.5°	1461.1	1447.3	1456.4	1453.6	1453.3
15°	1438.4	1426.3	1438.4	1438.4	1437.1
17.5°	1410.0	1399.0	1412.0	1412.8	1412.0
20°	1390.2	1378.0	1394.3	1393.0	1394.3
22.5°	1365.9	1355.9	1373.3	1369.8	1371.1
25°	1328.1	1318.7	1337.8	1333.6	1333.6
27.5°	1283.4	1276.7	1297.5	1293.1	1293.1
30°	1253.6	1246.9	1268.8	1263.3	1263.3
32.5°	1220.5	1215.9	1236.8	1230.2	1230.2
35°	1168.1	1165.4	1186.1	1177.8	1177.8
37.5°	1114.1	1111.6	1130.3	1120.3	1117.1
40°	1074.3	1073.0	1089.5	1078.5	1078.5
42.5°	1034.6	1033.3	1047.6	1034.3	1034.3
45°	973.7	971.0	980.6	968.1	965.4
47.5°	907.2	904.5	910.5	897.0	895.6
50°	862.0	859.3	862.0	849.5	848.2
52.5°	815.6	810.8	811.2	798.8	798.5
55°	744.7	735.3	735.1	724.0	724.0
57.5°	669.7	657.3	658.4	649.0	647.6
60°	617.9	604.4	605.4	597.1	595.8
62.5°	567.1	551.5	554.7	545.3	545.0
65°	482.7	471.9	473.0	468.9	468.9
67.5°	401.6	391.6	398.8	395.5	395.3
70°	342.0	335.3	344.8	344.8	343.4
72.5°	286.9	286.6	298.4	298.5	299.3
75°	208.2	217.7	230.3	231.7	231.7
77.5°	139.0	155.7	169.6	170.2	169.9
80°	99.3	118.2	131.0	133.7	132.4
82.5°	67.3	87.3	97.9	100.6	99.3
85°	30.3	46.5	55.2	56.5	55.2
87.5°	8.8	18.5	22.1	22.0	19.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	72.6	168.4	49.0	37.0
95°	44.5	176.7	794.2	274.9	169.4
97.5°	81.8	207.0	1223.1	875.2	599.7
100°	107.8	225.0	1316.2	1333.2	1026.9
102.5°	136.6	244.4	1295.7	1706.5	1439.1
105°	181.4	275.1	1189.5	2101.2	1997.4
107.5°	227.0	311.0	1065.6	2212.4	2304.8
110°	258.4	337.1	994.4	2169.9	2377.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	363.2	946.5	2069.2	2365.0
115°	337.2	407.5	902.0	1910.8	2243.9
117.5°	380.0	445.9	875.6	1737.7	2090.5
120°	414.2	469.4	872.9	1638.8	1976.9
122.5°	441.6	496.8	866.1	1552.0	1866.0
125°	475.8	527.7	860.9	1428.7	1708.1
127.5°	513.1	561.7	858.2	1355.0	1585.3
130°	532.3	580.8	854.1	1303.6	1504.5
132.5°	552.8	600.0	854.1	1263.6	1448.3
135°	581.9	630.5	850.7	1206.8	1364.1
137.5°	609.3	656.5	850.3	1158.7	1294.6
140°	629.9	678.4	848.9	1118.9	1249.4
142.5°	653.1	693.6	853.0	1087.1	1204.3
145°	686.3	721.5	857.5	1044.5	1138.2
147.5°	714.8	748.9	865.0	1001.4	1082.4
150°	739.4	762.8	867.8	987.2	1044.1
152.5°	758.6	783.3	870.5	967.9	1020.8
155°	783.9	802.3	878.0	943.9	982.4
157.5°	815.4	826.4	879.7	933.1	960.5
160°	831.8	840.2	886.6	924.8	948.2
162.5°	841.4	851.1	888.0	917.8	935.9
165°	866.1	869.4	888.3	907.4	920.8
167.5°	882.8	879.8	896.2	904.9	910.2
170°	888.3	886.6	893.4	895.3	902.0
172.5°	900.6	894.9	897.5	892.5	897.9
175°	907.1	902.1	898.6	893.3	886.6
177.5°	909.9	901.8	897.5	892.1	893.4
180°	900.3	900.3	900.3	900.3	900.3

(END OF REPORT)