

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: P563726

Luminaire Tested: **SQ4-PP3-125U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563726
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

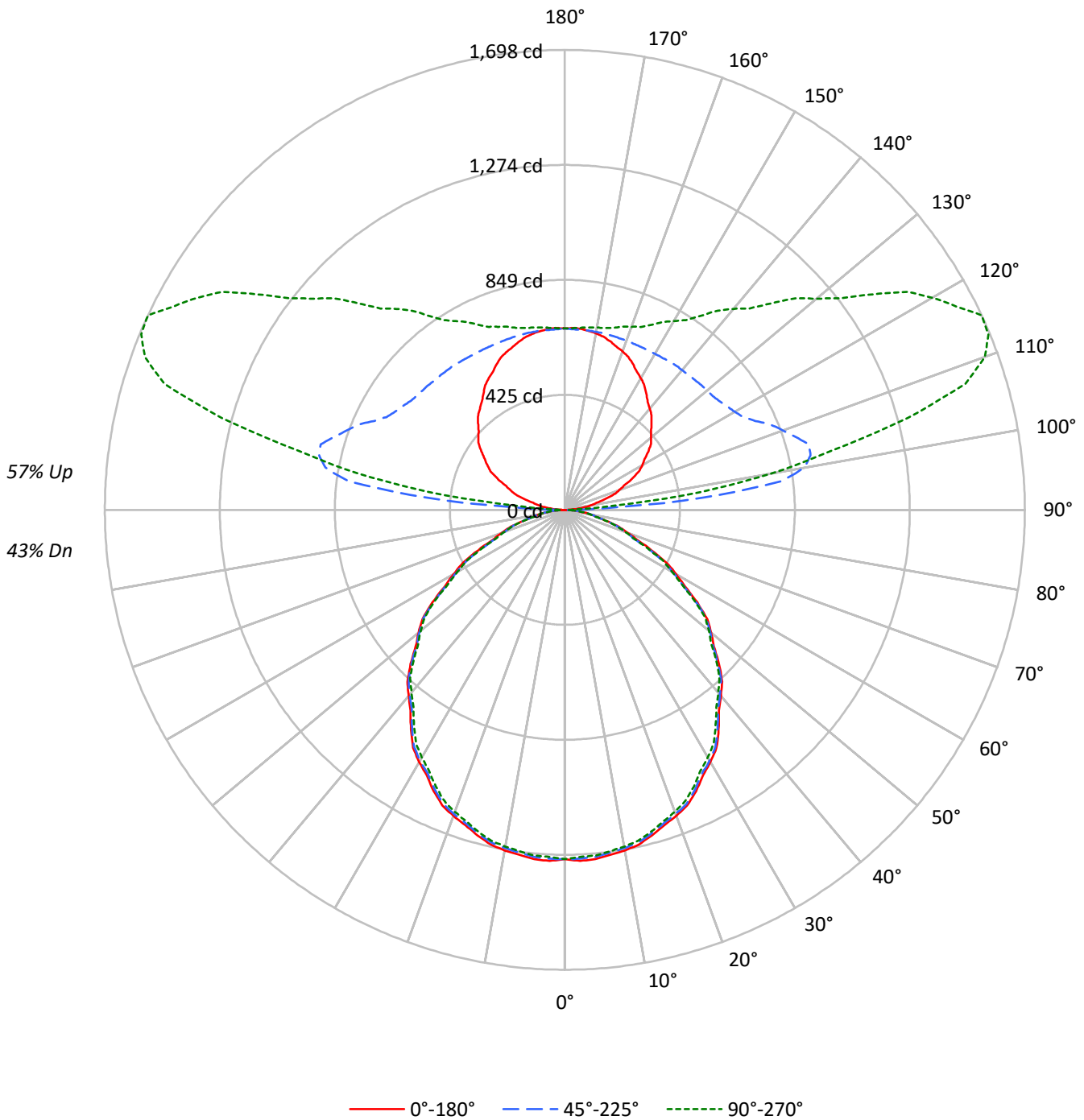
Lumens per Lamp: N/A
Luminaire Lumens: 7623.6 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	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	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11983	11910	11869
10°	11964	11878	11826
15°	11884	11819	11754
20°	11806	11739	11650
25°	11665	11585	11470
30°	11449	11389	11245
35°	11149	11074	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10122	10056	9960
55°	9598	9471	9397
60°	8737	8486	8446
65°	7698	7377	7353
70°	6647	6372	6372
75°	5721	5639	5557
80°	5042	5106	4984
85°	3949	4308	4308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.6
10°-20°	348.1	4.6
20°-30°	521.5	6.8
30°-40°	611.6	8.0
40°-50°	613.6	8.0
50°-60°	523.4	6.9
60°-70°	341.4	4.5
70°-80°	171.3	2.2
80°-90°	49.0	0.6
90°-100°	313.2	4.1
100°-110°	843.6	11.1
110°-120°	885.4	11.6
120°-130°	718.5	9.4
130°-140°	563.5	7.4
140°-150°	432.6	5.7
150°-160°	311.0	4.1
160°-170°	190.0	2.5
170°-180°	64.1	0.8
0°-30°	991.5	13.0
0°-40°	1603.2	21.0
0°-60°	2740.1	35.9
0°-90°	3301.7	43.3
90°-120°	2042.2	26.8
90°-150°	3756.7	49.3
90°-180°	4322.0	56.7
0°-180°	7623.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1294	1282	1286	1282	1282	123
15°	1244	1232	1237	1233	1231	351
25°	1146	1133	1138	1128	1127	527
35°	990	980	983	972	971	618
45°	805	799	799	791	791	620
55°	597	594	589	585	584	530
65°	353	346	338	336	337	352
75°	160	160	158	157	156	174
85°	37	41	41	41	41	44
90°	2	5	10	11	11	5
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1297.5	1286.9	1289.4	1287.5	1282.2
5°	1293.9	1281.8	1286.0	1281.5	1281.5
7.5°	1285.1	1271.8	1276.1	1271.5	1271.3
10°	1277.0	1263.7	1267.9	1263.4	1262.3
12.5°	1265.2	1252.0	1257.1	1251.7	1251.4
15°	1244.2	1232.0	1237.4	1232.8	1230.6
17.5°	1220.5	1207.2	1213.7	1207.3	1206.5
20°	1202.4	1189.1	1195.6	1186.6	1186.6
22.5°	1180.7	1167.4	1174.8	1163.1	1163.1
25°	1145.9	1132.6	1138.0	1127.8	1126.7
27.5°	1104.5	1091.5	1097.1	1085.5	1085.3
30°	1074.7	1062.5	1069.0	1056.6	1055.5
32.5°	1042.1	1030.9	1035.6	1023.1	1022.0
35°	989.9	980.0	983.2	971.8	970.7
37.5°	935.0	924.8	928.5	918.7	918.3
40°	896.1	889.5	890.5	882.5	880.3
42.5°	860.0	852.5	853.4	845.5	845.1
45°	804.6	799.1	799.0	791.0	791.0
47.5°	745.8	741.6	740.4	733.9	733.6
50°	705.2	701.8	700.6	695.0	693.9
52.5°	662.7	661.1	657.2	652.5	652.3
55°	596.7	594.5	588.8	585.3	584.2
57.5°	525.0	520.6	514.2	509.2	510.1
60°	473.5	469.1	459.9	457.7	457.7
62.5°	423.8	418.5	409.3	406.2	408.0
65°	352.6	346.0	337.9	335.7	336.8
67.5°	287.9	282.0	273.2	273.2	272.3
70°	246.4	243.0	236.2	236.2	236.2
72.5°	209.3	207.7	202.7	202.7	201.8
75°	160.5	160.5	158.2	157.1	155.9
77.5°	120.2	120.7	119.6	118.4	116.4
80°	94.9	97.1	96.1	94.9	93.8
82.5°	71.4	73.6	73.5	71.4	71.2
85°	37.3	40.6	40.7	40.7	40.7
87.5°	10.3	14.5	16.5	16.7	17.6
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)