

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: P563714

Luminaire Tested: **SQ4-PP3-125U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563714  
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-840-1D-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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

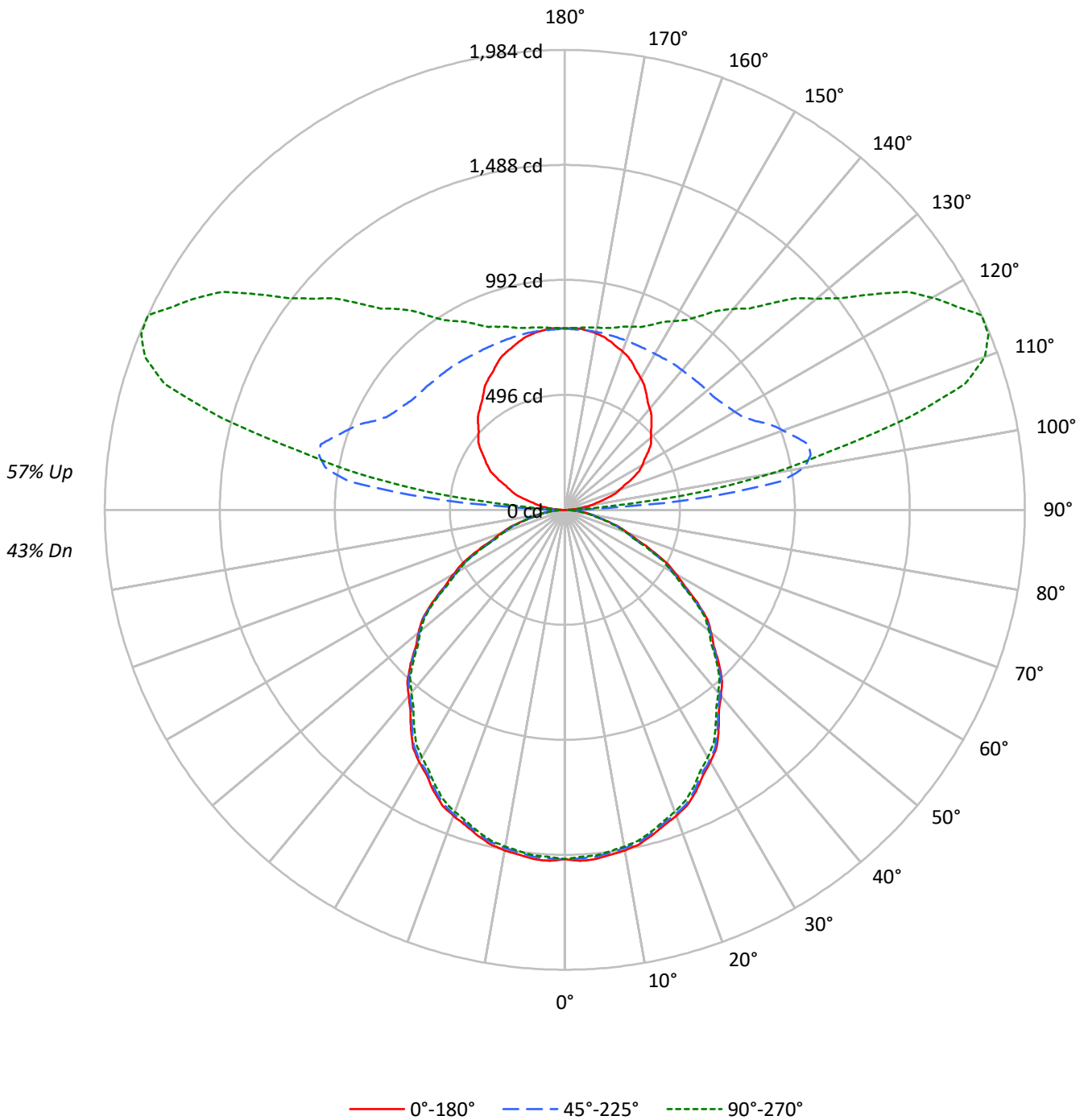
Lumens per Lamp: N/A  
Luminaire Lumens: 8907.4 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	13899	13899	13899
5°	14001	13916	13867
10°	13978	13879	13818
15°	13885	13810	13734
20°	13794	13716	13612
25°	13630	13535	13401
30°	13378	13307	13138
35°	13027	12938	12775
40°	12611	12532	12388
45°	12266	12180	12060
50°	11826	11750	11636
55°	11215	11065	10980
60°	10208	9916	9868
65°	8994	8619	8591
70°	7764	7445	7445
75°	6684	6591	6495
80°	5892	5961	5823
85°	4615	5028	5028



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	1.6
10°-20°	406.8	4.6
20°-30°	609.3	6.8
30°-40°	714.6	8.0
40°-50°	716.9	8.0
50°-60°	611.6	6.9
60°-70°	398.8	4.5
70°-80°	200.1	2.2
80°-90°	57.2	0.6
90°-100°	365.9	4.1
100°-110°	985.7	11.1
110°-120°	1034.5	11.6
120°-130°	839.4	9.4
130°-140°	658.3	7.4
140°-150°	505.4	5.7
150°-160°	363.4	4.1
160°-170°	222.0	2.5
170°-180°	74.9	0.8
0°-30°	1158.5	13.0
0°-40°	1873.2	21.0
0°-60°	3201.6	35.9
0°-90°	3857.8	43.3
90°-120°	2386.1	26.8
90°-150°	4389.3	49.3
90°-180°	5050.0	56.7
0°-180°	8907.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1512	1498	1503	1497	1497	144
15°	1454	1440	1446	1440	1438	410
25°	1339	1323	1330	1318	1316	616
35°	1157	1145	1149	1136	1134	723
45°	940	934	934	924	924	724
55°	697	695	688	684	683	620
65°	412	404	395	392	394	411
75°	188	188	185	184	182	203
85°	44	47	48	48	48	51
90°	2	6	12	13	13	6
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

TEST NUMBER: P563714

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1506.5	1506.5	1506.5	1506.5	1506.5
2.5°	1516.0	1503.7	1506.5	1504.3	1498.1
5°	1511.8	1497.6	1502.6	1497.3	1497.3
7.5°	1501.5	1486.0	1491.0	1485.7	1485.4
10°	1492.0	1476.5	1481.5	1476.1	1474.9
12.5°	1478.3	1462.8	1468.8	1462.4	1462.2
15°	1453.7	1439.5	1445.8	1440.5	1437.9
17.5°	1426.0	1410.5	1418.1	1410.7	1409.6
20°	1404.9	1389.4	1397.0	1386.4	1386.4
22.5°	1379.5	1364.0	1372.7	1358.9	1358.9
25°	1338.9	1323.4	1329.6	1317.7	1316.4
27.5°	1290.5	1275.3	1281.8	1268.3	1268.1
30°	1255.7	1241.5	1249.1	1234.5	1233.2
32.5°	1217.6	1204.5	1210.0	1195.4	1194.1
35°	1156.6	1145.0	1148.7	1135.5	1134.2
37.5°	1092.5	1080.6	1084.8	1073.4	1072.9
40°	1047.1	1039.3	1040.5	1031.2	1028.6
42.5°	1004.8	996.0	997.1	987.9	987.4
45°	940.1	933.6	933.5	924.3	924.3
47.5°	871.4	866.5	865.1	857.4	857.2
50°	823.9	820.0	818.6	812.0	810.7
52.5°	774.3	772.5	767.9	762.4	762.1
55°	697.2	694.6	687.9	683.9	682.6
57.5°	613.4	608.3	600.8	595.0	596.0
60°	553.2	548.1	537.4	534.8	534.8
62.5°	495.1	488.9	478.2	474.6	476.7
65°	412.0	404.2	394.8	392.2	393.5
67.5°	336.4	329.5	319.3	319.2	318.2
70°	287.8	284.0	276.0	276.0	276.0
72.5°	244.5	242.7	236.9	236.9	235.8
75°	187.5	187.5	184.9	183.5	182.2
77.5°	140.5	141.0	139.7	138.3	136.0
80°	110.9	113.5	112.2	110.9	109.6
82.5°	83.4	86.0	85.8	83.4	83.2
85°	43.6	47.4	47.5	47.5	47.5
87.5°	12.0	16.9	19.3	19.5	20.5
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)