

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: P563066

Luminaire Tested: **SQ4-PC3-125U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563066  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

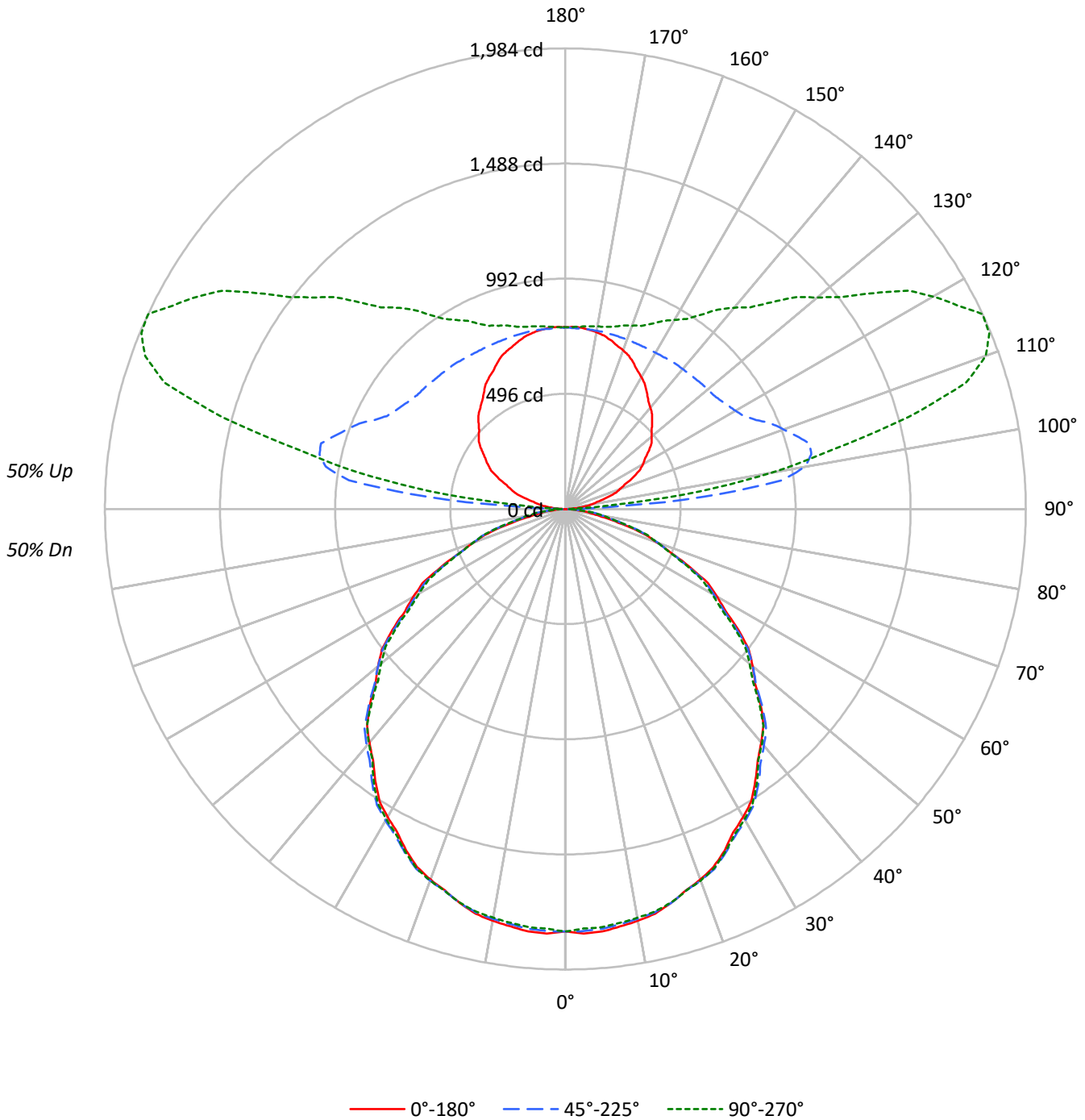
Lumens per Lamp: N/A  
Luminaire Lumens: 10019.1 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16810	16748
10°	16879	16800	16753
15°	16790	16790	16775
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16518	16447
35°	16078	16325	16211
40°	15813	16035	15874
45°	15526	15635	15394
50°	15120	15120	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12509
70°	11276	11365	11322
75°	9072	10035	10092
80°	6445	8506	8597
85°	3927	7135	7135



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.3	1.7
10°-20°	494.3	4.9
20°-30°	748.6	7.5
30°-40°	897.5	9.0
40°-50°	915.1	9.1
50°-60°	798.9	8.0
60°-70°	571.9	5.7
70°-80°	294.6	2.9
80°-90°	76.3	0.8
90°-100°	365.9	3.7
100°-110°	985.7	9.8
110°-120°	1034.5	10.3
120°-130°	839.4	8.4
130°-140°	658.3	6.6
140°-150°	505.4	5.0
150°-160°	363.4	3.6
160°-170°	222.0	2.2
170°-180°	74.9	0.7
0°-30°	1415.2	14.1
0°-40°	2312.7	23.1
0°-60°	4026.7	40.2
0°-90°	4969.5	49.6
90°-120°	2386.1	23.8
90°-150°	4389.3	43.8
90°-180°	5050.0	50.4
0°-180°	10019.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1827	1809	1815	1810	1808	173
15°	1758	1743	1758	1758	1756	496
25°	1623	1612	1635	1630	1630	747
35°	1428	1424	1449	1439	1439	893
45°	1190	1187	1198	1183	1180	916
55°	910	899	898	885	885	811
65°	590	577	578	573	573	583
75°	254	266	282	283	283	275
85°	37	57	67	69	67	50
90°	2	6	12	13	13	5
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1831.0	1815.2	1820.2	1816.0	1809.4
5°	1826.9	1808.8	1815.1	1810.0	1808.4
7.5°	1813.8	1795.7	1804.0	1800.6	1799.0
10°	1801.7	1783.5	1793.2	1789.8	1788.2
12.5°	1785.5	1768.7	1779.7	1776.4	1776.0
15°	1757.8	1743.0	1757.8	1757.8	1756.2
17.5°	1723.1	1709.6	1725.5	1726.5	1725.5
20°	1698.9	1684.0	1703.9	1702.3	1703.9
22.5°	1669.2	1657.0	1678.3	1673.9	1675.6
25°	1623.0	1611.5	1634.8	1629.8	1629.8
27.5°	1568.4	1560.2	1585.6	1580.2	1580.2
30°	1532.0	1523.8	1550.5	1543.8	1543.8
32.5°	1491.6	1485.9	1511.4	1503.3	1503.3
35°	1427.5	1424.2	1449.4	1439.3	1439.3
37.5°	1361.4	1358.5	1381.3	1369.1	1365.1
40°	1312.9	1311.3	1331.4	1318.0	1318.0
42.5°	1264.4	1262.7	1280.2	1264.0	1264.0
45°	1189.9	1186.6	1198.3	1183.1	1179.8
47.5°	1108.6	1105.3	1112.7	1096.1	1094.5
50°	1053.4	1050.1	1053.4	1038.1	1036.5
52.5°	996.7	990.8	991.3	976.2	975.8
55°	910.1	898.6	898.3	884.8	884.8
57.5°	818.4	803.3	804.6	793.1	791.4
60°	755.0	738.6	739.9	729.7	728.1
62.5°	693.0	673.9	677.9	666.4	666.1
65°	589.9	576.7	578.1	573.0	573.0
67.5°	490.8	478.6	487.4	483.4	483.0
70°	418.0	409.7	421.3	421.3	419.7
72.5°	350.6	350.2	364.7	364.7	365.7
75°	254.5	266.0	281.5	283.1	283.1
77.5°	169.9	190.3	207.3	208.0	207.6
80°	121.3	144.4	160.1	163.4	161.8
82.5°	82.2	106.6	119.7	123.0	121.3
85°	37.1	56.9	67.4	69.1	67.4
87.5°	11.2	23.8	29.4	29.5	26.9
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)