

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: P562586

Luminaire Tested: **SQ4-PC3-025U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562586  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

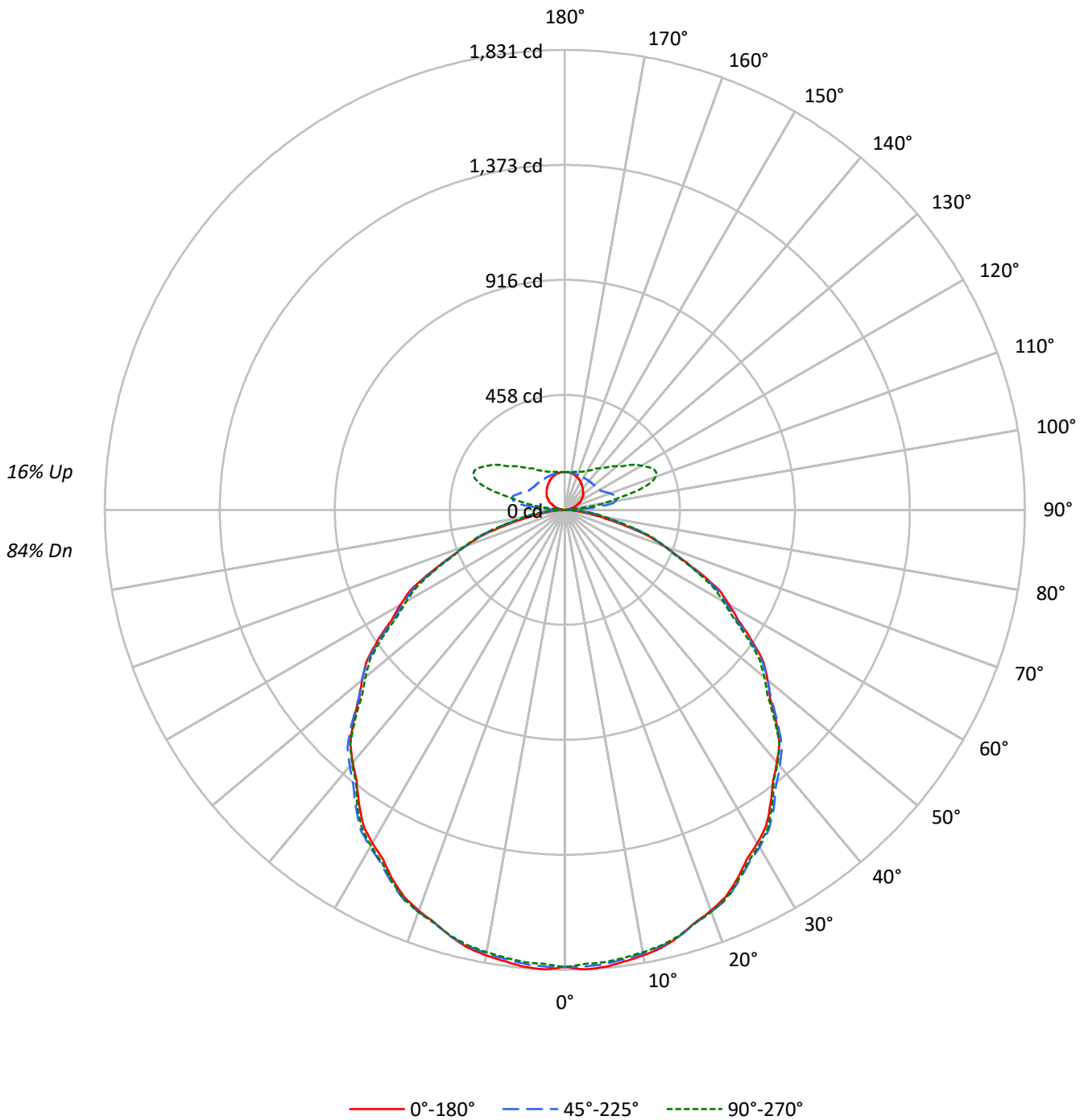
Lumens per Lamp: N/A  
Luminaire Lumens: 5944.1 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 49.5  
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

**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	2.9
10°-20°	494.3	8.3
20°-30°	748.6	12.6
30°-40°	897.5	15.1
40°-50°	915.1	15.4
50°-60°	798.9	13.4
60°-70°	571.9	9.6
70°-80°	294.6	5.0
80°-90°	75.3	1.3
90°-100°	73.4	1.2
100°-110°	192.9	3.2
110°-120°	200.0	3.4
120°-130°	160.4	2.7
130°-140°	125.9	2.1
140°-150°	96.6	1.6
150°-160°	69.6	1.2
160°-170°	42.6	0.7
170°-180°	14.4	0.2
0°-30°	1415.2	23.8
0°-40°	2312.7	38.9
0°-60°	4026.7	67.7
0°-90°	4968.5	83.6
90°-120°	466.2	7.8
90°-150°	849.1	14.3
90°-180°	976.0	16.4
0°-180°	5944.1	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°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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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°	11.0	23.2	28.5	27.7	25.0
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)