

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: P563942

Luminaire Tested: **SQ4-PR1-025U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563942  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-125D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

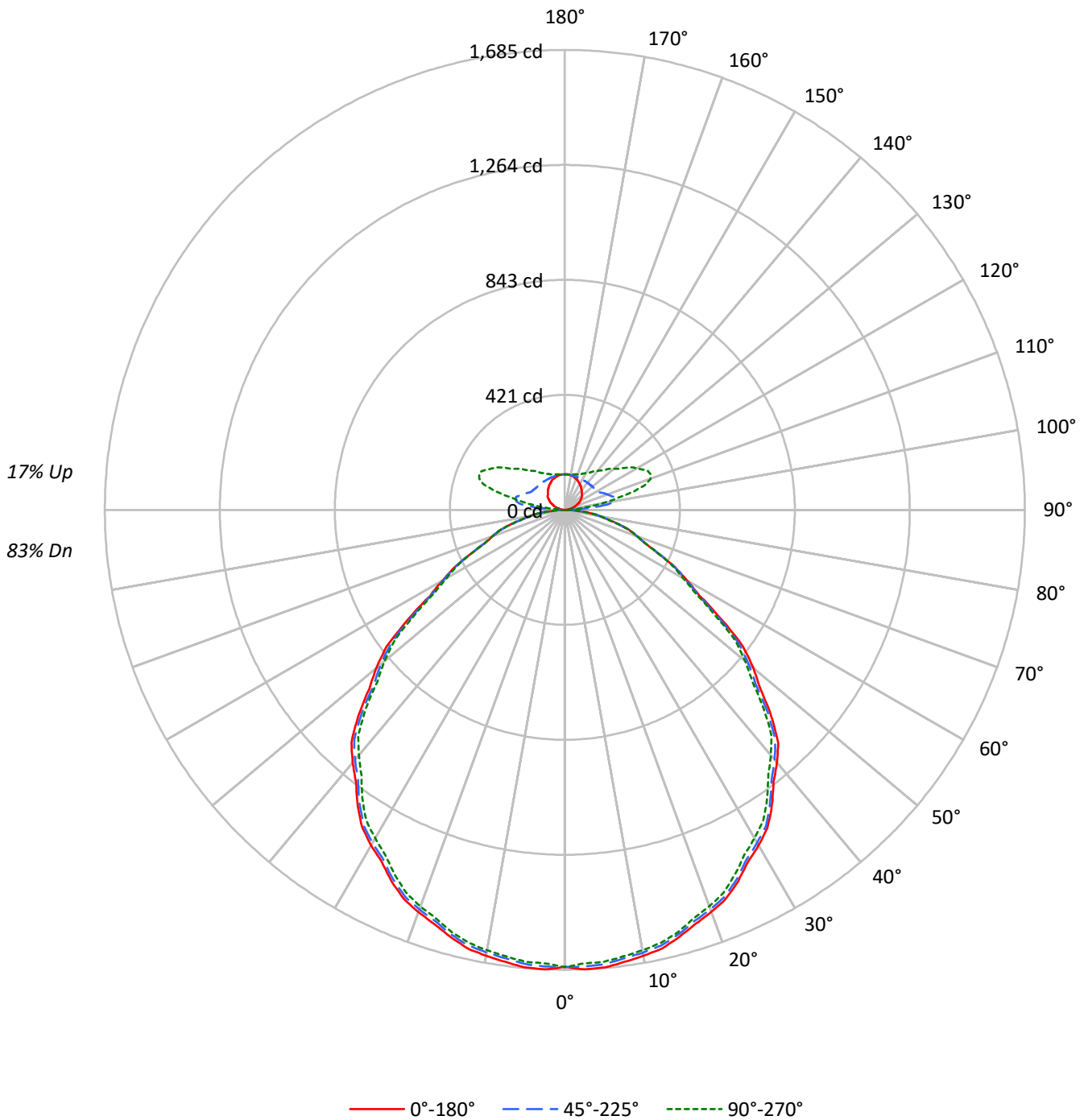
Lumens per Lamp: N/A  
Luminaire Lumens: 5030.7 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	40	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	41	36	33	31
8	60	47	39	33	57	46	38	33	43	36	32	40	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

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

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15473	15376	15293
20°	15394	15295	15182
25°	15286	15183	15007
30°	15122	15014	14799
35°	14898	14768	14556
40°	14559	14402	14142
45°	13965	13720	13438
50°	12920	12609	12360
55°	11276	11022	10788
60°	9503	9422	9235
65°	8219	8250	8187
70°	7548	7588	7588
75°	7251	7251	7301
80°	6822	6896	6822
85°	5494	6108	6108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.4	3.1
10°-20°	453.1	9.0
20°-30°	683.4	13.6
30°-40°	814.3	16.2
40°-50°	802.8	16.0
50°-60°	613.6	12.2
60°-70°	379.7	7.5
70°-80°	215.7	4.3
80°-90°	66.3	1.3
90°-100°	63.4	1.3
100°-110°	166.7	3.3
110°-120°	172.9	3.4
120°-130°	138.7	2.8
130°-140°	108.8	2.2
140°-150°	83.5	1.7
150°-160°	60.2	1.2
160°-170°	36.8	0.7
170°-180°	12.4	0.2
0°-30°	1294.9	25.7
0°-40°	2109.2	41.9
0°-60°	3525.6	70.1
0°-90°	4187.2	83.2
90°-120°	403.0	8.0
90°-150°	734.0	14.6
90°-180°	843.0	16.8
0°-180°	5030.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1683	1665	1670	1664	1662	160
15°	1620	1603	1610	1604	1601	457
25°	1502	1483	1492	1476	1474	691
35°	1323	1307	1311	1294	1292	826
45°	1070	1056	1052	1033	1030	820
55°	701	690	685	674	671	628
65°	376	374	378	375	375	381
75°	203	203	203	205	205	215
85°	52	55	58	58	58	60
90°	1	2	7	3	3	3
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1674.7	1674.7	1674.7	1674.7	1674.7
2.5°	1685.1	1670.4	1674.7	1671.0	1663.1
5°	1683.3	1665.0	1670.4	1664.5	1661.7
7.5°	1670.4	1652.3	1657.7	1651.9	1650.2
10°	1658.8	1641.9	1647.3	1641.4	1638.6
12.5°	1646.1	1628.1	1634.6	1627.6	1624.8
15°	1619.9	1602.9	1609.8	1603.9	1601.1
17.5°	1591.0	1573.0	1579.8	1573.1	1569.4
20°	1567.9	1551.0	1557.8	1547.7	1546.3
22.5°	1542.6	1525.6	1532.5	1518.9	1518.6
25°	1501.6	1483.3	1491.5	1475.6	1474.2
27.5°	1452.8	1435.9	1442.7	1426.5	1424.9
30°	1419.4	1402.4	1409.3	1391.9	1389.1
32.5°	1381.3	1365.5	1371.2	1353.8	1352.2
35°	1322.7	1307.2	1311.2	1293.8	1292.4
37.5°	1256.1	1242.0	1244.3	1225.2	1223.8
40°	1208.8	1194.7	1195.8	1175.6	1174.2
42.5°	1156.8	1142.7	1141.6	1121.3	1119.9
45°	1070.3	1056.2	1051.5	1032.7	1029.9
47.5°	971.6	957.5	948.8	933.5	931.5
50°	900.1	886.0	878.5	865.4	861.1
52.5°	822.8	808.7	802.3	790.4	786.1
55°	701.0	689.7	685.2	673.6	670.7
57.5°	585.3	577.7	576.4	565.1	564.0
60°	515.0	510.7	510.6	500.5	500.5
62.5°	454.9	451.8	454.1	447.4	446.3
65°	376.5	373.7	377.9	375.0	375.0
67.5°	314.5	314.5	317.1	315.9	315.9
70°	279.8	279.8	281.3	281.3	281.3
72.5°	248.7	247.6	251.3	251.2	250.1
75°	203.4	203.4	203.4	204.8	204.8
77.5°	158.4	158.7	159.8	159.5	158.4
80°	128.4	129.8	129.8	128.4	128.4
82.5°	98.4	99.8	99.8	99.5	98.4
85°	51.9	54.7	57.7	57.7	57.7
87.5°	15.2	20.0	24.4	23.7	22.6
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)