

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: P561823

Luminaire Tested: **SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561823  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

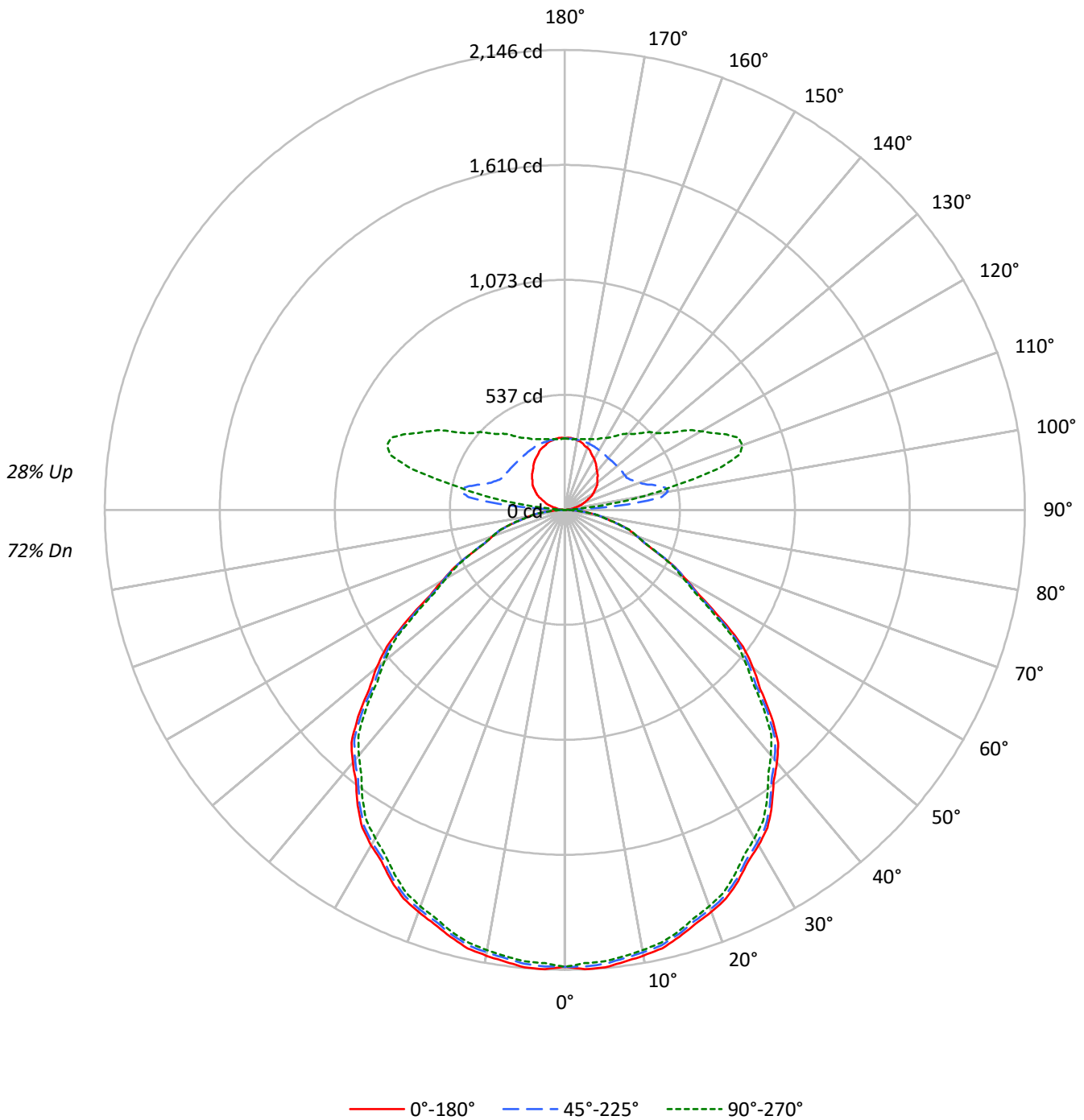
Lumens per Lamp: N/A  
Luminaire Lumens: 7405.2 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 69.3  
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	50	30	10	0	
RCR																						
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72	72	72	72	
1	103	99	95	91	98	94	90	87	85	82	80	76	74	72	68	67	65	61	61	61	61	
2	94	87	81	75	89	83	77	72	75	70	67	67	64	61	60	58	56	52	52	52	52	
3	86	77	69	63	82	73	66	61	66	61	56	60	56	52	54	51	48	45	45	45	45	
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	48	45	42	39	39	39	39	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	44	40	36	34	34	34	34	
6	67	55	47	41	64	53	45	40	48	42	37	44	39	35	40	36	32	30	30	30	30	
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29	26	26	26	26	
8	58	45	38	32	55	44	36	31	40	34	29	37	31	28	34	29	26	24	24	24	24	
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	21	21	21	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	19	19	19	19	

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

	0°	45°	90°
0°	19674	19674	19674
5°	19851	19698	19595
10°	19788	19650	19547
15°	19701	19578	19473
20°	19602	19476	19331
25°	19464	19333	19109
30°	19254	19117	18843
35°	18969	18804	18536
40°	18537	18338	18007
45°	17782	17470	17111
50°	16450	16054	15739
55°	14358	14033	13739
60°	12099	11998	11760
65°	10466	10505	10424
70°	9611	9663	9663
75°	9233	9233	9297
80°	8687	8783	8687
85°	6997	7781	7781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.7	2.7
10°-20°	576.9	7.8
20°-30°	870.2	11.8
30°-40°	1036.8	14.0
40°-50°	1022.2	13.8
50°-60°	781.2	10.5
60°-70°	483.5	6.5
70°-80°	274.6	3.7
80°-90°	83.5	1.1
90°-100°	152.2	2.1
100°-110°	433.0	5.8
110°-120°	414.9	5.6
120°-130°	328.4	4.4
130°-140°	263.6	3.6
140°-150°	206.3	2.8
150°-160°	151.0	2.0
160°-170°	93.5	1.3
170°-180°	31.7	0.4
0°-30°	1648.8	22.3
0°-40°	2685.6	36.3
0°-60°	4489.1	60.6
0°-90°	5330.7	72.0
90°-120°	1000.1	13.5
90°-150°	1798.3	24.3
90°-180°	2075.0	28.0
0°-180°	7405.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2143	2120	2127	2119	2116	203
15°	2063	2041	2050	2042	2039	582
25°	1912	1889	1899	1879	1877	880
35°	1684	1664	1670	1648	1646	1051
45°	1363	1345	1339	1315	1311	1044
55°	893	878	872	858	854	800
65°	479	476	481	478	478	486
75°	259	259	259	261	261	274
85°	66	70	74	74	74	77
90°	0	0	0	0	0	3
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2132.4	2132.4	2132.4	2132.4	2132.4
2.5°	2145.6	2126.9	2132.4	2127.7	2117.7
5°	2143.4	2120.1	2126.9	2119.4	2115.8
7.5°	2126.9	2103.9	2110.7	2103.3	2101.2
10°	2112.2	2090.6	2097.5	2090.1	2086.5
12.5°	2096.0	2073.0	2081.3	2072.4	2068.8
15°	2062.6	2041.0	2049.7	2042.3	2038.7
17.5°	2025.9	2002.9	2011.5	2003.0	1998.3
20°	1996.5	1974.9	1983.6	1970.7	1968.9
22.5°	1964.1	1942.6	1951.3	1934.0	1933.7
25°	1912.0	1888.6	1899.1	1878.9	1877.1
27.5°	1849.9	1828.3	1837.0	1816.4	1814.3
30°	1807.3	1785.7	1794.4	1772.3	1768.7
32.5°	1758.8	1738.7	1745.9	1723.9	1721.7
35°	1684.2	1664.5	1669.5	1647.5	1645.7
37.5°	1599.4	1581.4	1584.3	1560.0	1558.2
40°	1539.1	1521.2	1522.6	1496.8	1495.1
42.5°	1473.0	1455.1	1453.5	1427.8	1426.0
45°	1362.8	1344.9	1338.9	1315.0	1311.4
47.5°	1237.2	1219.2	1208.2	1188.6	1186.1
50°	1146.1	1128.1	1118.5	1101.9	1096.5
52.5°	1047.6	1029.7	1021.6	1006.4	1001.0
55°	892.6	878.3	872.4	857.6	854.1
57.5°	745.3	735.6	733.9	719.6	718.1
60°	655.7	650.3	650.2	637.3	637.3
62.5°	579.3	575.3	578.2	569.7	568.3
65°	479.4	475.8	481.2	477.5	477.5
67.5°	400.4	400.4	403.7	402.2	402.2
70°	356.3	356.3	358.2	358.2	358.2
72.5°	316.6	315.2	319.9	319.9	318.5
75°	259.0	259.0	259.0	260.8	260.8
77.5°	201.7	202.0	203.5	203.1	201.7
80°	163.5	165.3	165.3	163.5	163.5
82.5°	125.3	127.1	127.1	126.7	125.3
85°	66.1	69.7	73.5	73.5	73.5
87.5°	19.1	24.8	29.4	29.4	27.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)