

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: P563888

Luminaire Tested: **SQ4-PR1-025U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563888  
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-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

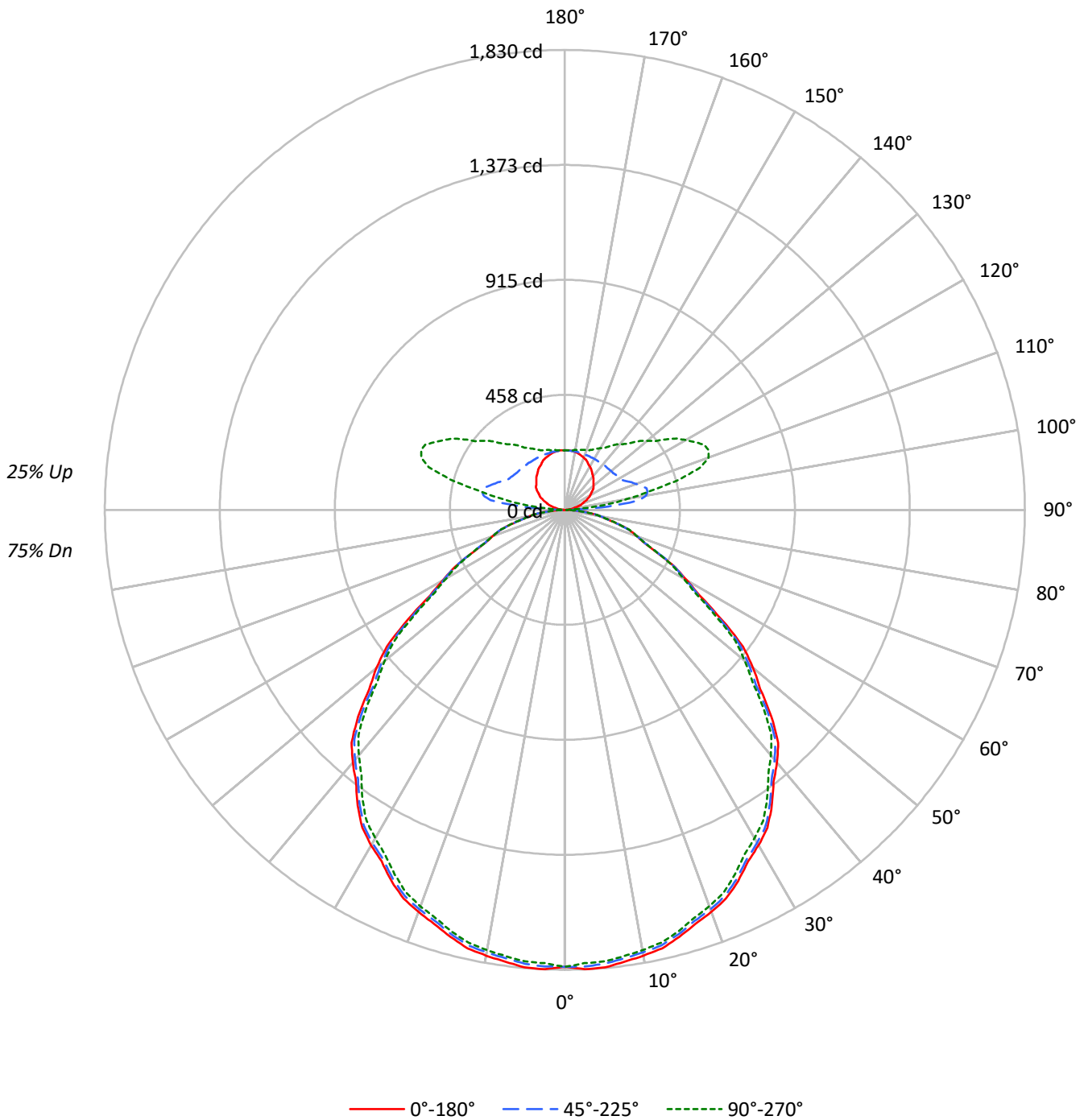
Lumens per Lamp: N/A  
Luminaire Lumens: 6084.1 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.9  
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	8388	8388	8388
5°	8464	8398	8355
10°	8437	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8299	8243	8147
30°	8209	8150	8034
35°	8088	8017	7903
40°	7903	7818	7677
45°	7581	7448	7295
50°	7014	6845	6710
55°	6121	5983	5857
60°	5158	5115	5014
65°	4462	4479	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3746	3703
85°	2985	3313	3313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	2.8
10°-20°	492.0	8.1
20°-30°	742.0	12.2
30°-40°	884.1	14.5
40°-50°	871.7	14.3
50°-60°	666.2	10.9
60°-70°	412.3	6.8
70°-80°	234.2	3.8
80°-90°	72.5	1.2
90°-100°	115.6	1.9
100°-110°	303.9	5.0
110°-120°	315.1	5.2
120°-130°	252.8	4.2
130°-140°	198.3	3.3
140°-150°	152.2	2.5
150°-160°	109.6	1.8
160°-170°	67.1	1.1
170°-180°	22.7	0.4
0°-30°	1405.9	23.1
0°-40°	2290.1	37.6
0°-60°	3827.9	62.9
0°-90°	4546.8	74.7
90°-120°	734.6	12.1
90°-150°	1337.9	22.0
90°-180°	1537.0	25.3
0°-180°	6084.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1828	1808	1814	1807	1804	173
15°	1759	1740	1748	1742	1738	496
25°	1630	1610	1619	1602	1601	750
35°	1436	1419	1424	1405	1403	896
45°	1162	1147	1142	1121	1118	890
55°	761	749	744	731	728	682
65°	409	406	410	407	407	414
75°	221	221	221	222	222	233
85°	56	59	63	63	63	66
90°	2	4	12	6	6	4
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1818.3	1818.3	1818.3	1818.3	1818.3
2.5°	1829.6	1813.6	1818.3	1814.3	1805.8
5°	1827.7	1807.8	1813.6	1807.3	1804.2
7.5°	1813.6	1794.0	1799.8	1793.5	1791.7
10°	1801.1	1782.7	1788.5	1782.2	1779.1
12.5°	1787.3	1767.7	1774.8	1767.2	1764.1
15°	1758.8	1740.4	1747.8	1741.5	1738.4
17.5°	1727.5	1707.9	1715.2	1707.9	1704.0
20°	1702.4	1684.0	1691.4	1680.4	1678.9
22.5°	1674.8	1656.5	1663.9	1649.1	1648.8
25°	1630.4	1610.4	1619.4	1602.1	1600.6
27.5°	1577.4	1559.0	1566.5	1548.9	1547.0
30°	1541.1	1522.7	1530.1	1511.3	1508.2
32.5°	1499.7	1482.6	1488.8	1469.9	1468.1
35°	1436.2	1419.3	1423.6	1404.8	1403.3
37.5°	1363.8	1348.5	1351.0	1330.2	1328.7
40°	1312.4	1297.1	1298.3	1276.4	1274.8
42.5°	1256.0	1240.7	1239.4	1217.5	1216.0
45°	1162.1	1146.8	1141.7	1121.3	1118.2
47.5°	1055.0	1039.6	1030.2	1013.6	1011.4
50°	977.3	962.0	953.8	939.6	935.0
52.5°	893.3	878.0	871.1	858.1	853.5
55°	761.1	748.9	743.9	731.3	728.3
57.5°	635.5	627.3	625.8	613.6	612.4
60°	559.1	554.5	554.4	543.5	543.5
62.5°	494.0	490.6	493.0	485.8	484.6
65°	408.8	405.7	410.3	407.2	407.2
67.5°	341.4	341.4	344.2	343.0	343.0
70°	303.8	303.8	305.4	305.4	305.4
72.5°	270.0	268.8	272.8	272.8	271.6
75°	220.8	220.8	220.8	222.4	222.4
77.5°	172.0	172.3	173.5	173.2	172.0
80°	139.4	140.9	141.0	139.4	139.4
82.5°	106.8	108.3	108.4	108.0	106.8
85°	56.4	59.4	62.6	62.6	62.6
87.5°	16.6	22.1	27.5	26.2	25.0
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)