

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: P564767

Luminaire Tested: **SQ4-PW1-075U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564767  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

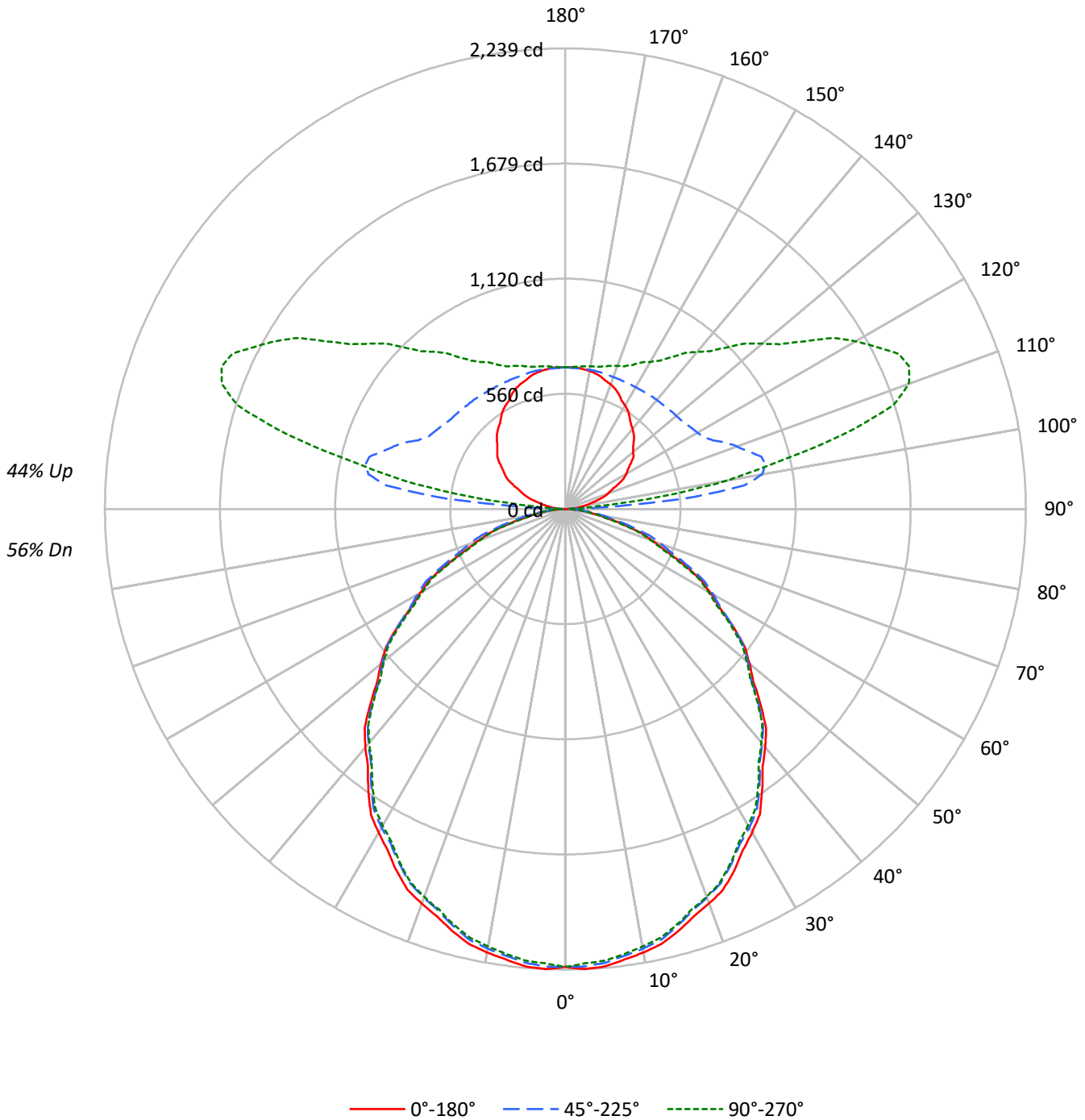
Lumens per Lamp: N/A  
Luminaire Lumens: 10156.2 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.9  
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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	13692	13692	13692
5°	13780	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12533	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11185	11091	11017
55°	10664	10664	10495
60°	10012	10205	9844
65°	9163	9620	8935
70°	8076	8853	7866
75°	6899	7923	6711
80°	5349	6670	5419
85°	3458	5124	4566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.6	2.1
10°-20°	591.8	5.8
20°-30°	877.9	8.6
30°-40°	1027.2	10.1
40°-50°	1022.6	10.1
50°-60°	883.1	8.7
60°-70°	635.6	6.3
70°-80°	333.3	3.3
80°-90°	84.4	0.8
90°-100°	325.1	3.2
100°-110°	894.5	8.8
110°-120°	923.3	9.1
120°-130°	739.7	7.3
130°-140°	581.0	5.7
140°-150°	445.2	4.4
150°-160°	320.1	3.2
160°-170°	195.7	1.9
170°-180°	66.0	0.6
0°-30°	1679.3	16.5
0°-40°	2706.5	26.6
0°-60°	4612.1	45.4
0°-90°	5665.5	55.8
90°-120°	2142.9	21.1
90°-150°	3908.8	38.5
90°-180°	4491.0	44.2
0°-180°	10156.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2232	2207	2214	2208	2204	211
15°	2124	2097	2100	2096	2093	599
25°	1942	1909	1906	1895	1900	893
35°	1669	1646	1646	1630	1636	1043
45°	1342	1330	1324	1320	1318	1035
55°	994	992	994	981	979	887
65°	630	649	661	635	614	624
75°	290	317	333	311	282	311
85°	49	64	73	69	65	65
90°	2	6	10	13	13	5
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2238.6	2220.2	2226.1	2221.1	2210.4
5°	2231.9	2207.0	2214.3	2208.3	2204.5
7.5°	2209.2	2186.2	2191.5	2185.2	2182.9
10°	2188.8	2165.8	2171.1	2163.2	2159.4
12.5°	2165.3	2140.7	2146.0	2138.1	2135.8
15°	2124.1	2097.2	2100.5	2096.5	2092.7
17.5°	2076.2	2049.0	2049.5	2043.3	2042.5
20°	2041.7	2012.9	2010.3	2002.6	2006.4
22.5°	2004.0	1973.7	1971.1	1960.2	1965.6
25°	1941.7	1909.1	1906.4	1894.7	1900.5
27.5°	1869.5	1837.3	1837.3	1821.0	1827.1
30°	1816.2	1785.5	1788.7	1769.3	1776.9
32.5°	1759.7	1732.1	1733.8	1714.3	1722.0
35°	1669.1	1646.0	1645.5	1630.0	1635.7
37.5°	1576.5	1556.2	1552.9	1544.0	1545.5
40°	1512.2	1494.9	1488.6	1482.7	1482.7
42.5°	1444.7	1429.0	1422.7	1418.4	1416.8
45°	1341.5	1330.0	1323.9	1319.9	1318.0
47.5°	1239.5	1228.8	1223.5	1220.7	1218.7
50°	1168.9	1161.3	1159.1	1153.2	1151.3
52.5°	1098.3	1093.7	1091.7	1084.2	1082.2
55°	994.4	992.5	994.4	980.6	978.7
57.5°	886.1	889.2	895.5	877.0	872.4
60°	813.9	821.6	829.6	807.9	800.2
62.5°	740.2	752.5	763.7	738.8	728.0
65°	629.6	648.8	661.0	635.0	613.9
67.5°	522.9	546.7	561.3	533.3	509.5
70°	449.1	476.0	492.3	464.2	437.4
72.5°	384.8	414.7	428.0	401.5	374.6
75°	290.3	317.1	333.4	311.2	282.4
77.5°	205.9	231.2	244.8	225.4	201.6
80°	151.0	177.9	188.3	172.2	153.0
82.5°	107.1	129.3	136.5	126.8	113.8
85°	49.0	64.4	72.6	68.6	64.7
87.5°	12.8	24.4	31.9	32.5	34.0
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)