

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: P520110

Luminaire Tested: **SQ4-F-0U-075D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520110  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-075D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

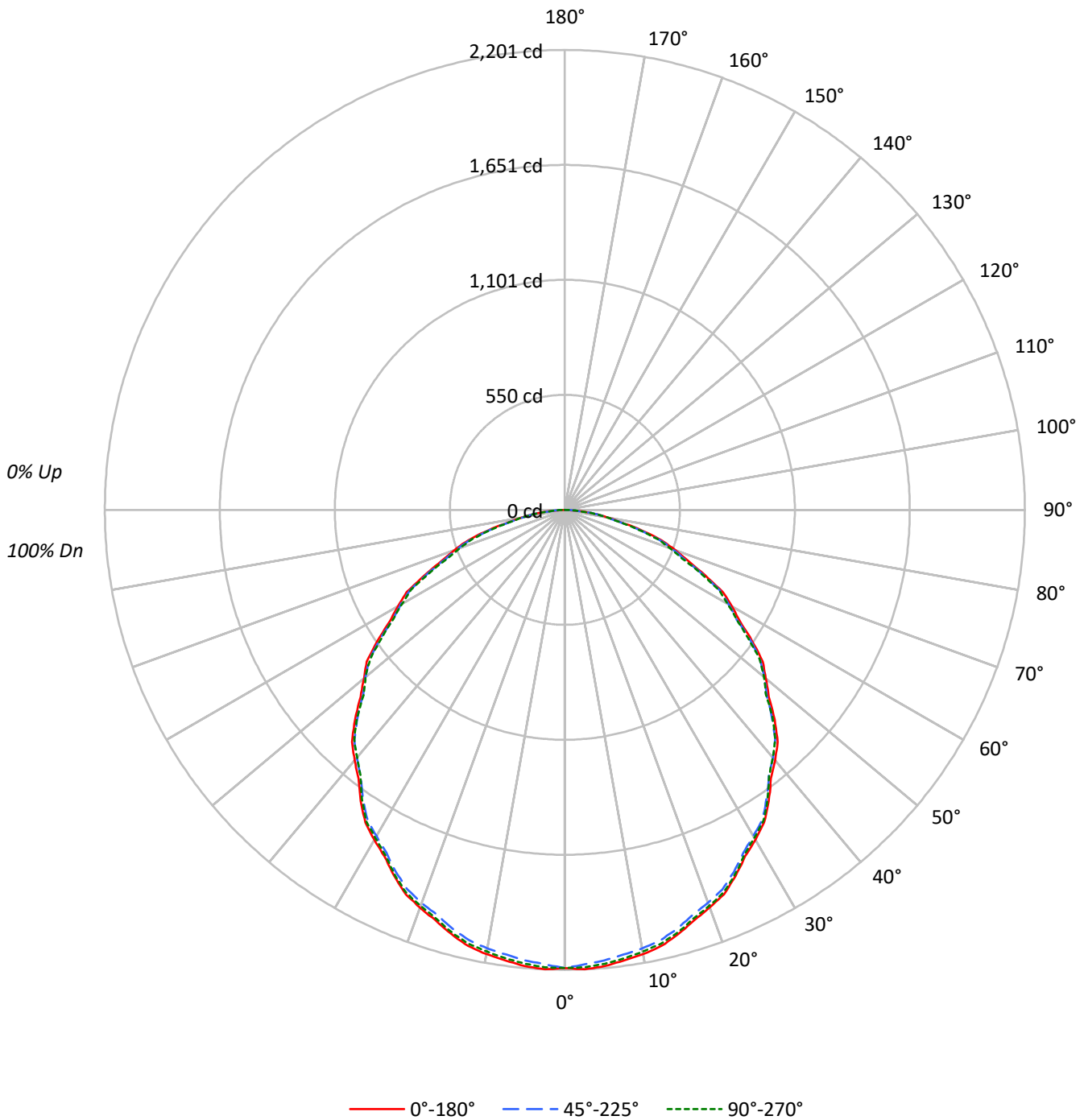
Lumens per Lamp: N/A  
Luminaire Lumens: 5985.8 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 51.5  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	10115	10115	10115
5°	10154	10025	10099
10°	10113	9983	10057
15°	10035	9912	9997
20°	9944	9828	9905
25°	9835	9734	9805
30°	9711	9605	9657
35°	9583	9482	9527
40°	9421	9326	9314
45°	9260	9143	9169
50°	9002	8931	8931
55°	8794	8681	8602
60°	8510	8364	8290
65°	8051	7898	7789
70°	7561	7372	7186
75°	6803	6554	6413
80°	5441	5332	5281
85°	3260	3684	3784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.0	3.5
10°-20°	589.2	9.8
20°-30°	885.2	14.8
30°-40°	1056.3	17.6
40°-50°	1083.3	18.1
50°-60°	965.2	16.1
60°-70°	719.7	12.0
70°-80°	390.3	6.5
80°-90°	89.7	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1681.4	28.1
0°-40°	2737.7	45.7
0°-60°	4786.1	80.0
0°-90°	5985.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5985.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2193	2193	2193	2193	2193	
5°	2193	2189	2165	2183	2181	208
15°	2101	2097	2075	2091	2093	593
25°	1932	1930	1912	1922	1926	890
35°	1702	1698	1684	1684	1692	1063
45°	1419	1414	1402	1402	1405	1092
55°	1093	1091	1079	1070	1070	977
65°	738	738	724	716	714	734
75°	382	374	368	362	360	401
85°	62	66	70	70	72	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2192.7	2192.7	2192.7	2192.7	2192.7
2.5°	2200.7	2195.9	2176.7	2192.7	2191.1
5°	2192.7	2188.8	2164.8	2182.7	2180.8
7.5°	2174.8	2170.5	2146.9	2164.8	2164.4
10°	2158.9	2153.0	2131.1	2148.9	2146.9
12.5°	2138.2	2132.4	2110.4	2128.2	2126.3
15°	2101.3	2097.3	2075.4	2091.3	2093.3
17.5°	2059.0	2051.7	2032.1	2047.6	2049.6
20°	2025.7	2019.9	2001.9	2015.8	2017.7
22.5°	1990.8	1984.9	1966.8	1980.8	1982.8
25°	1932.3	1930.3	1912.4	1922.5	1926.3
27.5°	1869.0	1863.6	1849.1	1856.8	1860.7
30°	1823.0	1819.0	1803.1	1809.1	1813.0
32.5°	1775.2	1772.9	1758.5	1761.5	1766.9
35°	1701.6	1697.8	1683.7	1683.9	1691.7
37.5°	1620.2	1615.9	1604.2	1602.3	1605.5
40°	1564.5	1558.7	1548.6	1546.6	1546.6
42.5°	1507.3	1503.0	1489.8	1486.3	1491.0
45°	1419.4	1413.5	1401.5	1401.6	1405.4
47.5°	1324.3	1322.0	1308.0	1301.7	1303.3
50°	1254.4	1258.3	1244.4	1236.7	1244.4
52.5°	1194.0	1191.6	1179.2	1171.3	1174.5
55°	1093.4	1091.4	1079.4	1069.5	1069.5
57.5°	992.3	987.3	974.9	967.4	973.3
60°	922.4	920.5	906.5	892.7	898.5
62.5°	852.4	848.9	835.0	825.9	830.2
65°	737.6	737.6	723.6	715.6	713.6
67.5°	636.9	627.6	619.9	610.2	607.6
70°	560.6	552.8	546.6	538.6	532.8
72.5°	485.8	481.2	472.0	464.0	462.8
75°	381.7	373.9	367.7	361.7	359.8
77.5°	271.5	270.0	264.4	261.3	262.4
80°	204.8	204.8	200.7	200.7	198.8
82.5°	144.4	145.8	145.1	141.9	141.5
85°	61.6	65.5	69.6	69.6	71.5
87.5°	11.1	18.9	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)