

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: P519865

Luminaire Tested: **SQ4-F-025U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519865  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-025U-125D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

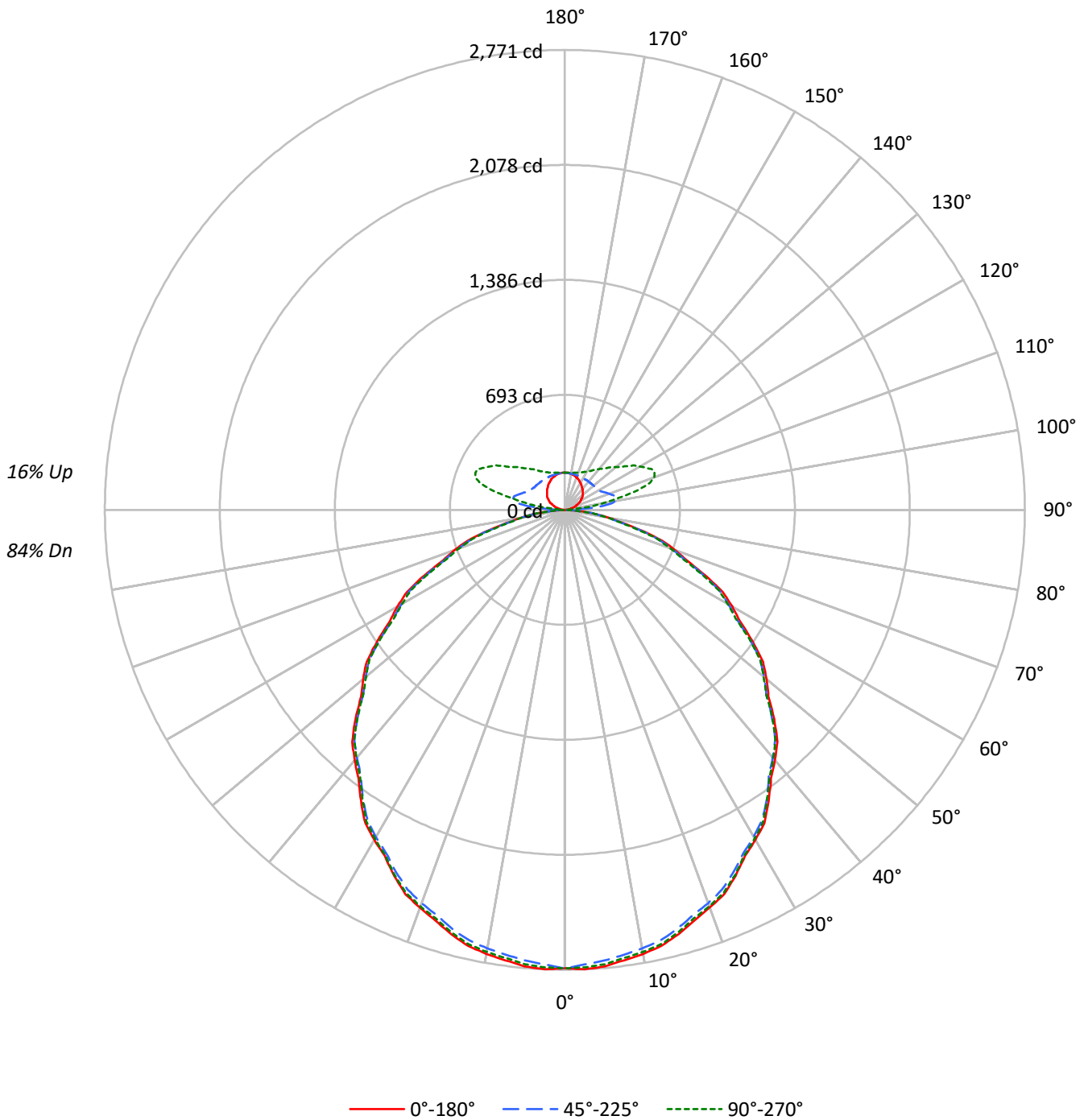
Lumens per Lamp: N/A  
Luminaire Lumens: 8986.6 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 73.8  
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	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21

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

	0°	45°	90°
0°	16990	16990	16990
5°	17046	16831	16971
10°	16968	16759	16892
15°	16854	16651	16787
20°	16698	16509	16638
25°	16508	16333	16467
30°	16304	16164	16250
35°	16072	15936	15947
40°	15808	15637	15686
45°	15512	15340	15367
50°	15173	14998	14954
55°	14787	14574	14542
60°	14307	13989	13914
65°	13563	13276	13099
70°	12632	12303	12139
75°	11236	10984	10659
80°	9153	8884	8830
85°	5469	6224	6224



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.6	2.9
10°-20°	742.3	8.3
20°-30°	1115.2	12.4
30°-40°	1330.7	14.8
40°-50°	1364.0	15.2
50°-60°	1215.8	13.5
60°-70°	905.0	10.1
70°-80°	490.3	5.5
80°-90°	113.8	1.3
90°-100°	108.9	1.2
100°-110°	286.4	3.2
110°-120°	297.0	3.3
120°-130°	238.2	2.7
130°-140°	186.9	2.1
140°-150°	143.5	1.6
150°-160°	103.3	1.1
160°-170°	63.2	0.7
170°-180°	21.4	0.2
0°-30°	2118.2	23.6
0°-40°	3448.8	38.4
0°-60°	6028.6	67.1
0°-90°	7537.7	83.9
90°-120°	692.3	7.7
90°-150°	1261.0	14.0
90°-180°	1449.0	16.1
0°-180°	8986.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2762	2762	2762	2762	2762	
5°	2761	2756	2726	2750	2749	262
15°	2647	2641	2615	2638	2636	746
25°	2432	2428	2407	2420	2426	1120
35°	2140	2139	2122	2122	2124	1339
45°	1783	1779	1764	1761	1767	1374
55°	1379	1374	1359	1349	1356	1231
65°	932	926	912	906	900	923
75°	473	473	462	453	448	502
85°	78	88	88	90	88	107
90°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	577	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	187	221	268	289	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2762.3	2762.3	2762.3	2762.3	2762.3
2.5°	2770.9	2766.1	2741.7	2762.2	2758.7
5°	2760.8	2756.4	2725.9	2750.2	2748.7
7.5°	2737.4	2731.7	2704.0	2726.7	2724.0
10°	2716.7	2712.3	2683.3	2706.1	2704.6
12.5°	2691.2	2686.7	2657.7	2680.6	2680.2
15°	2646.8	2640.8	2614.9	2637.7	2636.2
17.5°	2593.6	2586.8	2561.1	2579.1	2582.0
20°	2551.0	2546.6	2522.1	2539.0	2541.9
22.5°	2507.2	2501.6	2475.9	2495.2	2498.1
25°	2432.4	2428.0	2406.6	2420.4	2426.4
27.5°	2350.3	2350.3	2330.6	2340.4	2344.0
30°	2295.6	2295.6	2275.9	2282.0	2288.0
32.5°	2237.2	2232.5	2213.8	2218.8	2224.8
35°	2140.5	2139.0	2122.3	2122.3	2123.8
37.5°	2040.5	2036.4	2018.0	2019.4	2026.5
40°	1968.8	1965.8	1947.5	1947.6	1953.6
42.5°	1895.8	1892.8	1876.9	1874.6	1876.9
45°	1783.3	1778.8	1763.5	1760.6	1766.6
47.5°	1663.5	1664.7	1646.5	1642.3	1645.5
50°	1585.6	1585.6	1567.4	1558.4	1562.8
52.5°	1504.2	1501.8	1483.5	1473.4	1483.8
55°	1378.9	1374.4	1359.1	1348.7	1356.1
57.5°	1250.6	1243.8	1228.4	1216.9	1221.1
60°	1163.0	1152.6	1137.2	1128.1	1131.1
62.5°	1071.8	1066.1	1049.6	1035.7	1042.3
65°	931.9	925.9	912.2	906.0	900.0
67.5°	794.8	790.9	775.3	768.9	765.0
70°	702.4	695.0	684.1	676.5	675.0
72.5°	612.4	603.8	592.9	586.4	582.6
75°	472.8	472.8	462.2	452.9	448.5
77.5°	339.9	341.2	332.3	329.3	327.2
80°	258.4	258.4	250.8	247.8	249.3
82.5°	180.6	184.2	181.5	177.3	175.1
85°	77.5	88.0	88.2	89.7	88.2
87.5°	13.7	22.6	25.5	21.8	19.5
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.4
95°	14.3	56.4	187.7	96.7	66.0
97.5°	24.9	61.9	280.8	223.4	164.5
100°	33.0	66.6	309.5	313.6	243.6
102.5°	39.9	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.7	88.3	298.6	527.5	535.4
110°	71.7	94.1	283.7	539.6	573.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	100.9	269.9	531.9	583.5
115°	91.7	111.4	253.6	506.0	577.4
117.5°	103.4	121.4	242.4	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.5	421.8	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.6	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.6
132.5°	145.0	161.8	225.3	334.2	383.2
135°	151.9	167.3	223.6	314.8	356.8
137.5°	159.1	174.2	223.3	300.2	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.4	220.7	268.4	289.4
147.5°	183.1	194.0	220.7	258.4	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.7	220.7	242.3	249.3
157.5°	204.4	209.6	220.7	237.4	242.4
160°	207.8	212.0	220.7	235.0	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	215.0	217.7	220.7	229.3	232.2
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.0	222.1	227.9	227.9
172.5°	221.9	222.1	222.1	226.6	225.6
175°	223.6	223.6	222.1	225.0	225.0
177.5°	223.6	223.6	222.4	224.6	223.6
180°	223.6	223.6	223.6	223.6	223.6

(END OF REPORT)