

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: P519861

Luminaire Tested: **SQ4-F-025U-125D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519861  
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-830-1D-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**

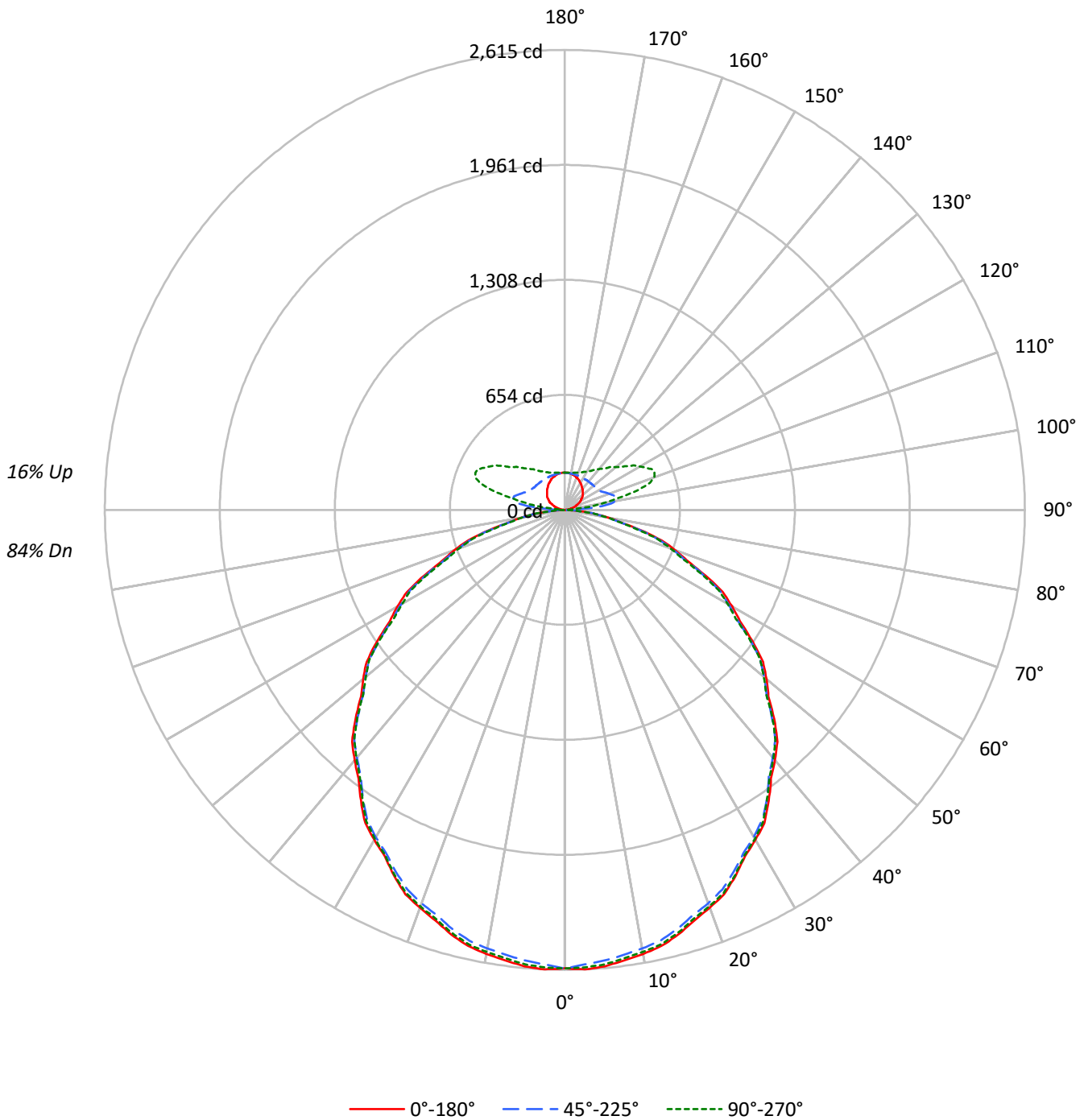
Lumens per Lamp: N/A  
Luminaire Lumens: 8482.3 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

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	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°	16038	16038	16038
5°	16090	15886	16019
10°	16016	15819	15944
15°	15909	15716	15845
20°	15761	15583	15705
25°	15581	15417	15543
30°	15389	15257	15338
35°	15171	15042	15052
40°	14921	14759	14806
45°	14642	14480	14504
50°	14322	14156	14116
55°	13958	13757	13726
60°	13503	13203	13133
65°	12802	12531	12364
70°	11921	11612	11457
75°	10606	10366	10060
80°	8643	8388	8335
85°	5166	5872	5872



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.0	2.9
10°-20°	700.7	8.3
20°-30°	1052.7	12.4
30°-40°	1256.0	14.8
40°-50°	1287.5	15.2
50°-60°	1147.5	13.5
60°-70°	854.2	10.1
70°-80°	462.8	5.5
80°-90°	107.4	1.3
90°-100°	102.8	1.2
100°-110°	270.3	3.2
110°-120°	280.3	3.3
120°-130°	224.9	2.7
130°-140°	176.4	2.1
140°-150°	135.4	1.6
150°-160°	97.5	1.1
160°-170°	59.7	0.7
170°-180°	20.2	0.2
0°-30°	1999.3	23.6
0°-40°	3255.3	38.4
0°-60°	5690.3	67.1
0°-90°	7114.7	83.9
90°-120°	653.5	7.7
90°-150°	1190.2	14.0
90°-180°	1368.0	16.1
0°-180°	8482.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2607	2607	2607	2607	2607	
5°	2606	2602	2573	2596	2594	247
15°	2498	2493	2468	2490	2488	704
25°	2296	2292	2272	2285	2290	1057
35°	2020	2019	2003	2003	2005	1263
45°	1683	1679	1665	1662	1667	1297
55°	1302	1297	1283	1273	1280	1162
65°	880	874	861	855	850	871
75°	446	446	436	428	423	474
85°	73	83	83	85	83	101
90°	1	4	11	5	5	3
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2607.4	2607.4	2607.4	2607.4	2607.4
2.5°	2615.4	2610.9	2587.8	2607.3	2603.9
5°	2606.0	2601.7	2572.9	2595.8	2594.4
7.5°	2583.9	2578.5	2552.2	2573.7	2571.2
10°	2564.3	2560.0	2532.8	2554.3	2552.8
12.5°	2540.2	2536.0	2508.7	2530.1	2529.8
15°	2498.3	2492.6	2468.1	2489.6	2488.3
17.5°	2448.1	2441.7	2417.3	2434.4	2437.2
20°	2407.9	2403.7	2380.7	2396.5	2399.3
22.5°	2366.6	2361.2	2337.0	2355.1	2357.9
25°	2295.9	2291.8	2271.6	2284.6	2290.2
27.5°	2218.5	2218.5	2199.8	2209.1	2212.4
30°	2166.8	2166.8	2148.2	2154.0	2159.6
32.5°	2111.7	2107.2	2089.6	2094.3	2099.9
35°	2020.4	2019.0	2003.2	2003.2	2004.6
37.5°	1926.0	1922.1	1904.8	1906.1	1912.8
40°	1858.3	1855.4	1838.2	1838.3	1844.0
42.5°	1789.4	1786.6	1771.6	1769.4	1771.6
45°	1683.3	1679.0	1664.6	1661.9	1667.4
47.5°	1570.1	1571.3	1554.1	1550.2	1553.2
50°	1496.7	1496.7	1479.4	1470.9	1475.2
52.5°	1419.7	1417.5	1400.3	1390.7	1400.6
55°	1301.6	1297.3	1282.9	1273.0	1280.0
57.5°	1180.4	1174.0	1159.5	1148.6	1152.6
60°	1097.7	1087.9	1073.3	1064.8	1067.6
62.5°	1011.7	1006.3	990.7	977.6	983.8
65°	879.6	874.1	861.0	855.1	849.5
67.5°	750.2	746.6	731.9	725.7	722.0
70°	662.9	655.9	645.7	638.5	637.1
72.5°	578.0	569.9	559.7	553.5	549.8
75°	446.3	446.3	436.2	427.5	423.3
77.5°	320.9	322.0	313.7	310.7	308.8
80°	244.0	244.0	236.8	233.9	235.3
82.5°	170.5	173.8	171.4	167.2	165.3
85°	73.2	83.0	83.2	84.6	83.2
87.5°	12.9	21.3	24.1	20.6	18.3
90°	1.3	4.0	10.8	5.4	5.4
92.5°	5.6	27.3	60.6	26.9	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.2
100°	31.1	62.8	292.1	296.0	229.9
102.5°	37.6	67.2	299.8	368.8	312.2
105°	48.7	73.8	298.9	453.7	423.4
107.5°	60.0	83.4	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.0	239.4	477.6	545.0
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.2	120.1	224.5	421.0	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.3	135.0	217.7	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.6	148.4	213.7	328.5	380.0
132.5°	136.9	152.7	212.6	315.3	361.7
135°	143.4	157.9	211.0	297.1	336.7
137.5°	150.2	164.4	210.8	283.4	315.9
140°	155.5	168.8	209.6	272.5	303.0
142.5°	159.9	172.1	209.6	264.9	291.1
145°	166.3	176.9	208.3	253.4	273.2
147.5°	172.8	183.1	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.4	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.8	222.3
165°	202.8	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.3	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.4	212.4
177.5°	211.0	211.0	209.9	212.0	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)