

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: P520296

Luminaire Tested: **SQ4-F-125U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520296  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

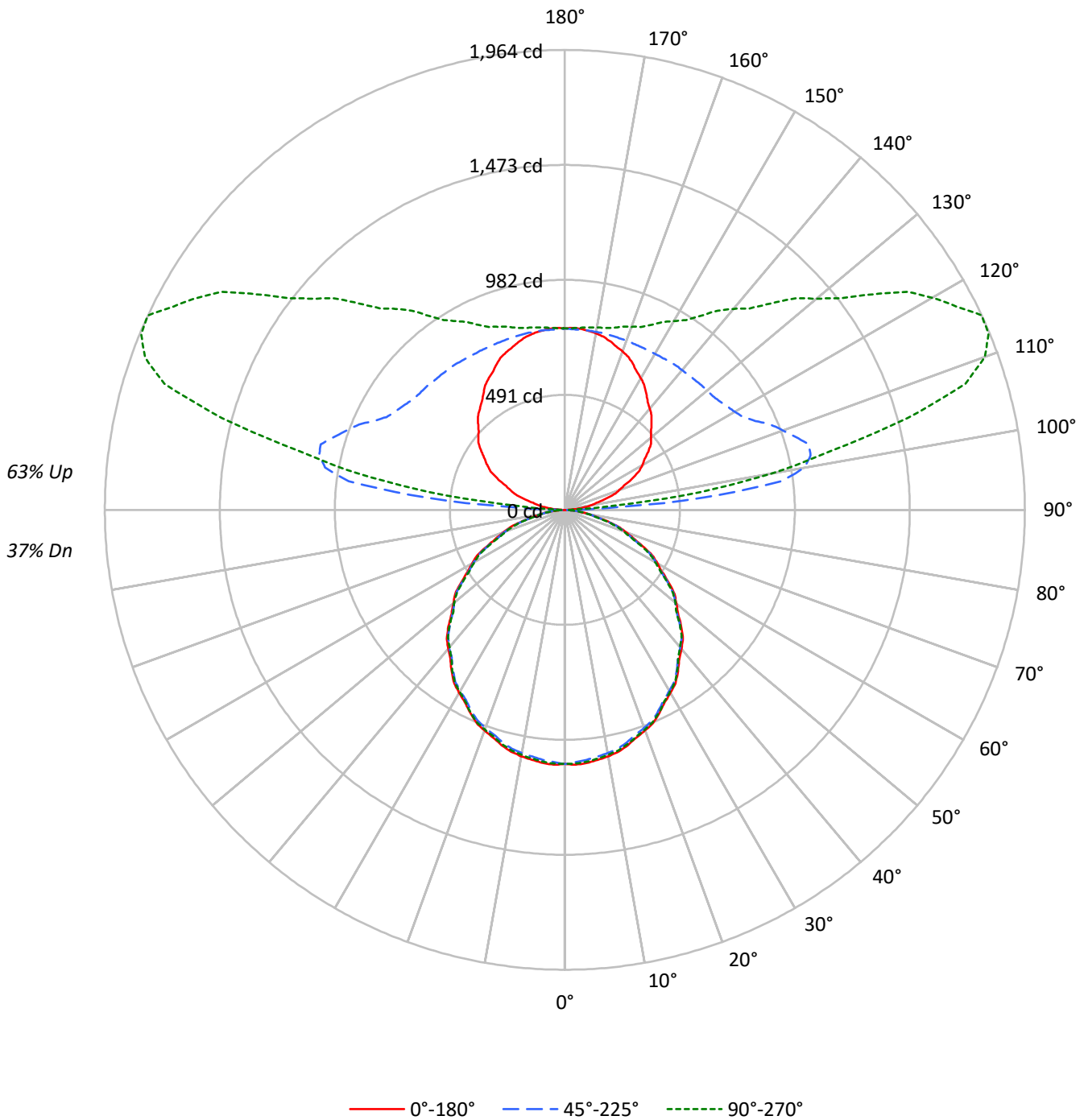
Lumens per Lamp: N/A  
Luminaire Lumens: 7964.2 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.7  
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	50	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	41	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	54	47	41	59	50	43	38	41	35	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	32	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	10014	10014	10014
5°	10052	9925	9998
10°	10012	9883	9957
15°	9936	9813	9897
20°	9846	9729	9807
25°	9737	9637	9708
30°	9614	9508	9562
35°	9488	9388	9432
40°	9328	9233	9221
45°	9167	9053	9077
50°	8912	8842	8842
55°	8705	8594	8516
60°	8425	8280	8208
65°	7971	7820	7713
70°	7486	7300	7113
75°	6734	6491	6349
80°	5388	5281	5228
85°	3229	3642	3747



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	1.3
10°-20°	291.7	3.7
20°-30°	438.2	5.5
30°-40°	522.9	6.6
40°-50°	536.2	6.7
50°-60°	477.8	6.0
60°-70°	356.3	4.5
70°-80°	193.2	2.4
80°-90°	46.2	0.6
90°-100°	362.3	4.5
100°-110°	975.9	12.3
110°-120°	1024.1	12.9
120°-130°	831.1	10.4
130°-140°	651.8	8.2
140°-150°	500.4	6.3
150°-160°	359.8	4.5
160°-170°	219.8	2.8
170°-180°	74.1	0.9
0°-30°	832.3	10.5
0°-40°	1355.2	17.0
0°-60°	2369.2	29.7
0°-90°	2964.9	37.2
90°-120°	2362.3	29.7
90°-150°	4345.5	54.6
90°-180°	4999.0	62.8
0°-180°	7964.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1085	1084	1072	1080	1080	103
15°	1040	1038	1027	1035	1036	293
25°	956	956	947	952	954	441
35°	842	840	834	834	837	526
45°	703	700	694	694	696	541
55°	541	540	534	529	529	483
65°	365	365	358	354	353	363
75°	189	185	182	179	178	198
85°	30	32	34	34	35	42
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	181	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	388
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	771	782	780	74
180°	774	774	774	774	774	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1089.4	1087.1	1077.5	1085.4	1084.6
5°	1085.4	1083.5	1071.6	1080.5	1079.5
7.5°	1076.6	1074.5	1062.8	1071.6	1071.4
10°	1068.7	1065.8	1054.9	1063.8	1062.8
12.5°	1058.5	1055.6	1044.7	1053.5	1052.6
15°	1040.2	1038.2	1027.4	1035.2	1036.2
17.5°	1019.3	1015.6	1005.9	1013.6	1014.6
20°	1002.8	999.9	990.9	997.8	998.8
22.5°	985.4	982.6	973.6	980.5	981.5
25°	956.5	955.5	946.7	951.6	953.6
27.5°	925.2	922.6	915.4	919.1	921.1
30°	902.4	900.4	892.5	895.5	897.5
32.5°	878.8	877.6	870.5	872.0	874.6
35°	842.4	840.4	833.5	833.6	837.4
37.5°	802.0	799.8	794.1	793.2	794.7
40°	774.5	771.6	766.6	765.6	765.6
42.5°	746.1	744.0	737.5	735.8	738.0
45°	702.6	699.8	693.8	693.8	695.7
47.5°	655.6	654.4	647.5	644.4	645.2
50°	620.9	622.9	616.0	612.2	616.0
52.5°	591.0	589.8	583.7	579.8	581.4
55°	541.2	540.2	534.3	529.4	529.4
57.5°	491.2	488.8	482.6	478.9	481.8
60°	456.6	455.6	448.7	441.9	444.8
62.5°	422.0	420.2	413.3	408.8	410.9
65°	365.1	365.1	358.2	354.3	353.3
67.5°	315.3	310.7	306.8	302.1	300.7
70°	277.5	273.7	270.6	266.6	263.7
72.5°	240.5	238.2	233.6	229.7	229.1
75°	188.9	185.1	182.1	179.1	178.1
77.5°	134.4	133.6	130.9	129.3	129.9
80°	101.4	101.4	99.4	99.4	98.4
82.5°	71.4	72.2	71.8	70.3	70.1
85°	30.5	32.5	34.4	34.4	35.4
87.5°	5.9	10.5	11.0	11.2	11.2
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.1	168.1	80.9	56.2
95°	55.3	197.0	593.9	303.7	210.2
97.5°	88.2	225.6	931.5	778.1	586.8
100°	113.5	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.6	280.8	1079.3	1614.7	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.7	332.5	991.5	1814.4	1907.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.6
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.0	1629.0	1882.5
120°	382.7	447.4	837.5	1551.8	1812.2
122.5°	404.8	468.7	822.5	1472.9	1732.6
125°	435.0	499.7	806.9	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.1	1212.8	1401.8
132.5°	498.8	561.6	789.2	1164.3	1337.9
135°	523.8	584.6	784.2	1100.3	1245.9
137.5°	547.7	605.9	781.7	1046.0	1165.7
140°	564.3	620.2	779.3	1012.7	1120.7
142.5°	581.7	633.8	777.7	981.5	1072.6
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.8	771.0	906.5	961.1
150°	649.2	684.8	769.4	885.0	930.3
152.5°	664.9	695.9	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.6	727.0	767.7	827.8	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.3	744.5	769.2	810.2	819.8
165°	745.8	754.4	770.4	801.1	805.0
167.5°	757.6	762.6	771.4	794.2	795.7
170°	765.5	767.5	771.4	790.2	790.2
172.5°	770.2	770.6	772.2	786.2	786.2
175°	775.4	774.5	771.4	782.3	780.3
177.5°	777.5	776.1	772.0	778.3	776.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)