

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521622

Luminaire Tested: **SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521622
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

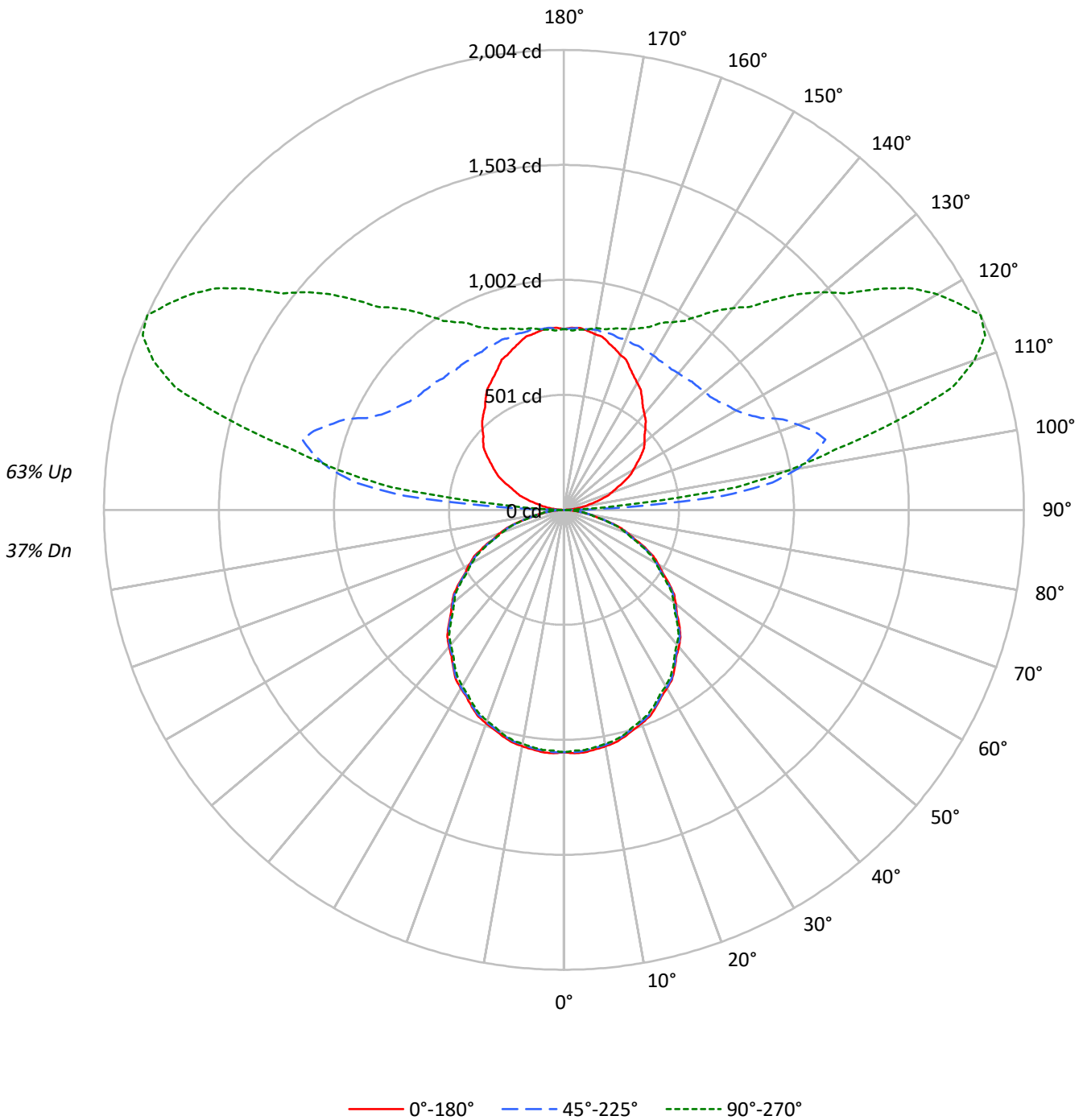
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8111.8 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.9
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	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	49	39	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	36	36	32	29	27	24	23	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	39	32	27	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9743	9743	9743
5°	9817	9752	9725
10°	9799	9743	9706
15°	9771	9704	9685
20°	9720	9671	9612
25°	9651	9610	9528
30°	9567	9535	9439
35°	9472	9427	9348
40°	9382	9322	9226
45°	9277	9199	9107
50°	9129	9057	8942
55°	8976	8863	8750
60°	8765	8617	8525
65°	8492	8274	8165
70°	7985	7769	7688
75°	7129	6987	6880
80°	5898	5951	5898
85°	4234	4764	4975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.2
10°-20°	286.2	3.5
20°-30°	432.9	5.3
30°-40°	521.2	6.4
40°-50°	541.4	6.7
50°-60°	491.3	6.1
60°-70°	374.7	4.6
70°-80°	208.8	2.6
80°-90°	54.8	0.7
90°-100°	406.1	5.0
100°-110°	981.4	12.1
110°-120°	1046.8	12.9
120°-130°	847.8	10.5
130°-140°	656.4	8.1
140°-150°	500.7	6.2
150°-160°	362.5	4.5
160°-170°	223.3	2.8
170°-180°	75.6	0.9
0°-30°	819.1	10.1
0°-40°	1340.3	16.5
0°-60°	2373.0	29.3
0°-90°	3011.3	37.1
90°-120°	2434.3	30.0
90°-150°	4439.2	54.7
90°-180°	5101.0	62.9
0°-180°	8111.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1060	1050	1053	1051	1050	101
15°	1023	1011	1016	1014	1014	289
25°	948	938	944	935	936	437
35°	841	835	837	828	830	526
45°	711	704	705	696	698	548
55°	558	555	551	544	544	498
65°	389	385	379	373	374	383
75°	200	199	196	194	193	213
85°	40	45	45	47	47	49
90°	0	0	0	0	0	3
95°	40	203	696	452	317	45
105°	157	271	1180	1526	1507	166
115°	287	367	948	1797	2004	284
125°	409	471	822	1429	1678	365
135°	502	561	789	1127	1296	388
145°	594	638	774	958	1033	371
155°	681	710	784	848	879	314
165°	752	764	794	806	818	212
175°	796	793	796	789	788	75
180°	788	788	788	788	788	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.0	1056.0	1056.0	1056.0	1056.0
2.5°	1061.6	1053.8	1056.8	1054.3	1050.4
5°	1060.0	1050.2	1053.0	1051.0	1050.0
7.5°	1052.4	1042.6	1046.4	1043.4	1043.2
10°	1046.0	1036.2	1040.0	1037.0	1036.0
12.5°	1038.0	1027.4	1031.2	1028.2	1028.0
15°	1023.0	1011.3	1016.0	1014.0	1014.0
17.5°	1004.4	992.9	998.6	995.0	993.4
20°	990.0	979.2	985.0	979.0	979.0
22.5°	974.8	964.0	969.0	962.2	962.2
25°	948.0	938.2	944.0	935.0	936.0
27.5°	918.8	910.0	915.0	906.4	906.8
30°	898.0	889.2	895.0	884.0	886.0
32.5°	876.4	868.4	871.8	862.4	862.8
35°	841.0	835.1	837.0	828.0	830.0
37.5°	804.6	797.8	799.6	790.4	792.4
40°	779.0	772.2	774.0	764.0	766.0
42.5°	751.8	745.7	746.8	736.9	739.6
45°	711.0	704.2	705.0	696.0	698.0
47.5°	667.2	661.7	660.6	652.4	654.2
50°	636.0	632.1	631.0	622.0	623.0
52.5°	604.8	601.7	599.0	590.9	593.4
55°	558.0	555.1	551.0	544.0	544.0
57.5°	509.4	506.5	501.4	494.4	496.4
60°	475.0	472.1	467.0	460.0	462.0
62.5°	440.6	437.7	431.8	425.6	426.8
65°	389.0	385.1	379.0	373.0	374.0
67.5°	333.6	329.9	324.8	319.0	320.2
70°	296.0	293.1	288.0	283.0	285.0
72.5°	256.8	253.9	249.6	247.0	246.6
75°	200.0	199.0	196.0	194.0	193.0
77.5°	146.2	147.6	144.0	143.2	143.0
80°	111.0	113.9	112.0	112.0	111.0
82.5°	79.8	84.3	83.2	83.2	83.0
85°	40.0	44.9	45.0	47.0	47.0
87.5°	11.2	15.9	18.4	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.3	109.9	258.9	125.9	85.4
95°	40.0	203.2	695.7	452.4	317.0
97.5°	71.1	225.1	916.3	882.8	757.8
100°	95.1	238.7	1037.8	1095.5	992.7
102.5°	117.8	250.9	1117.9	1272.6	1211.6
105°	156.8	271.0	1179.6	1526.2	1506.6
107.5°	195.2	294.7	1143.2	1729.6	1775.6
110°	221.9	314.9	1084.5	1817.2	1903.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	248.6	335.1	1032.4	1838.7	1986.5
115°	287.0	366.9	947.7	1796.6	2003.8
117.5°	325.0	400.4	898.0	1700.0	1942.7
120°	350.4	420.5	865.9	1624.2	1878.7
122.5°	377.1	442.0	845.9	1546.7	1797.3
125°	408.8	470.8	822.5	1428.9	1678.5
127.5°	440.1	498.5	806.2	1329.1	1548.3
130°	458.8	515.9	800.9	1259.6	1474.9
132.5°	476.2	535.9	792.8	1209.4	1392.2
135°	502.2	560.9	789.2	1126.7	1296.4
137.5°	526.9	586.0	777.5	1070.7	1198.6
140°	545.6	599.4	777.5	1030.4	1147.9
142.5°	564.3	618.1	770.8	995.3	1094.5
145°	594.0	638.0	774.2	957.7	1032.8
147.5°	621.7	664.4	772.2	914.4	976.4
150°	639.0	676.5	777.5	895.4	944.3
152.5°	657.7	693.9	776.2	875.3	919.0
155°	680.7	710.1	784.2	848.3	879.3
157.5°	708.4	733.5	782.5	838.0	856.2
160°	719.1	740.3	789.2	824.5	837.6
162.5°	736.5	755.0	786.5	820.4	828.2
165°	752.5	763.9	794.2	806.1	817.5
167.5°	772.2	779.7	792.2	805.2	805.5
170°	777.5	782.4	797.5	796.0	804.2
172.5°	786.8	790.4	793.5	797.1	792.2
175°	795.8	792.6	795.8	789.1	787.5
177.5°	794.2	794.2	791.5	788.7	782.2
180°	787.5	787.5	787.5	787.5	787.5

(END OF REPORT)