

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: P521624

Luminaire Tested: **SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521624
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

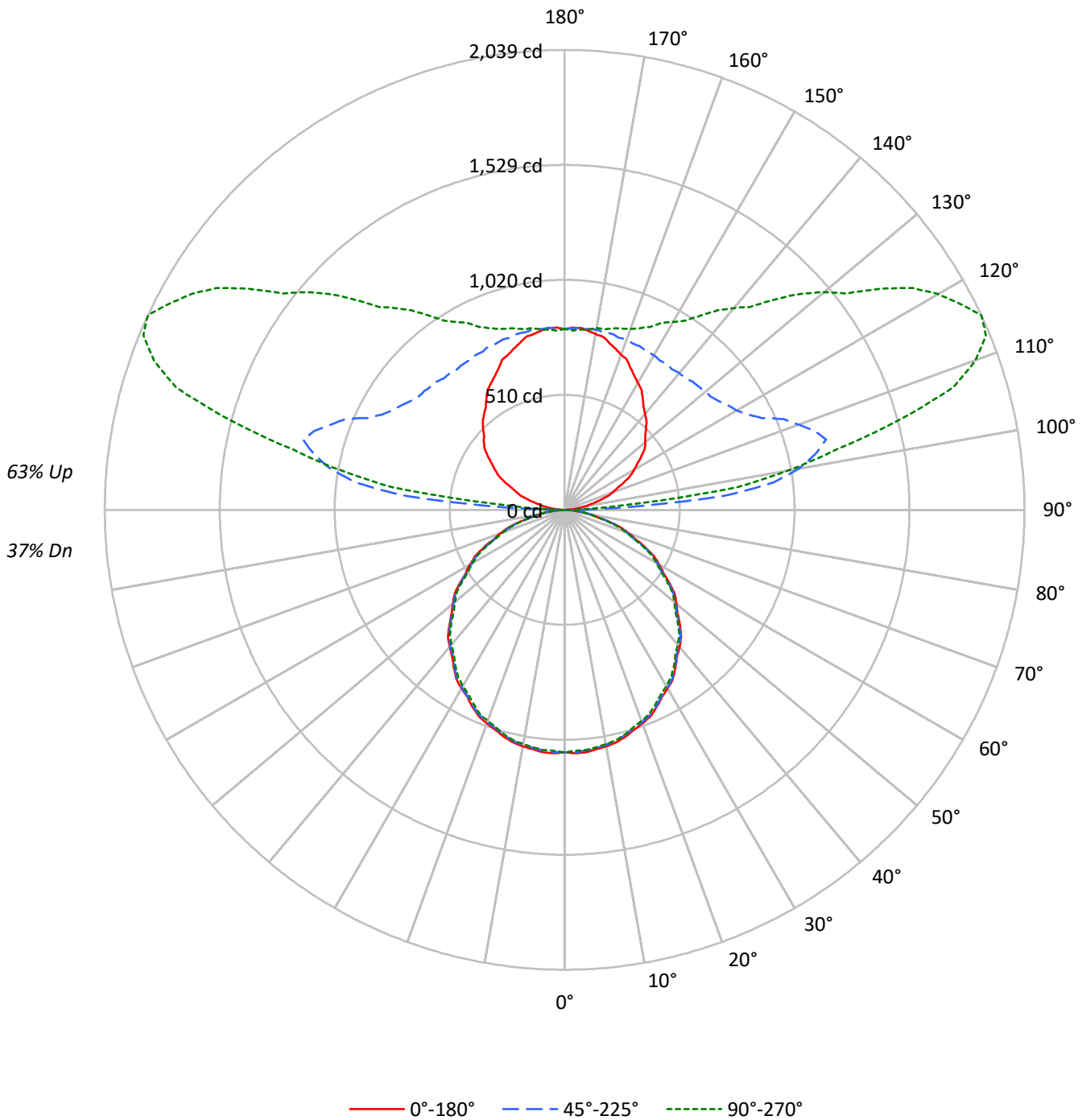
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8256.1 lumens
Efficiency: N/A
Efficacy: 113.4 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): 72.8
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	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°	9916	9916	9916
5°	9992	9925	9898
10°	9974	9917	9878
15°	9945	9877	9857
20°	9893	9843	9783
25°	9823	9781	9697
30°	9737	9704	9607
35°	9641	9595	9515
40°	9550	9488	9389
45°	9441	9362	9269
50°	9291	9218	9102
55°	9135	9021	8906
60°	8920	8770	8676
65°	8643	8420	8311
70°	8128	7907	7826
75°	7258	7112	7001
80°	6004	6057	6004
85°	4308	4848	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.2
10°-20°	291.3	3.5
20°-30°	440.6	5.3
30°-40°	530.5	6.4
40°-50°	551.0	6.7
50°-60°	500.0	6.1
60°-70°	381.4	4.6
70°-80°	212.5	2.6
80°-90°	55.8	0.7
90°-100°	413.3	5.0
100°-110°	998.9	12.1
110°-120°	1065.4	12.9
120°-130°	862.9	10.5
130°-140°	668.1	8.1
140°-150°	509.6	6.2
150°-160°	368.9	4.5
160°-170°	227.2	2.8
170°-180°	76.9	0.9
0°-30°	833.7	10.1
0°-40°	1364.2	16.5
0°-60°	2415.2	29.3
0°-90°	3064.8	37.1
90°-120°	2477.6	30.0
90°-150°	4518.2	54.7
90°-180°	5191.0	62.9
0°-180°	8256.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1079	1069	1072	1070	1069	102
15°	1041	1029	1034	1032	1032	294
25°	965	955	961	952	953	444
35°	856	850	852	843	845	536
45°	724	717	718	708	710	557
55°	568	565	561	554	554	507
65°	396	392	386	380	381	390
75°	204	203	200	197	196	216
85°	41	46	46	48	48	50
90°	0	0	0	0	0	3
95°	41	207	708	460	323	46
105°	160	276	1201	1553	1533	169
115°	292	373	964	1829	2039	289
125°	416	479	837	1454	1708	371
135°	511	571	803	1147	1319	395
145°	604	649	788	975	1051	378
155°	693	723	798	863	895	320
165°	766	778	808	820	832	216
175°	810	807	810	803	802	77
180°	802	802	802	802	802	



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CATALOG NUMBER: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1080.5	1072.5	1075.6	1073.1	1069.1
5°	1078.9	1068.9	1071.7	1069.7	1068.7
7.5°	1071.1	1061.2	1065.0	1062.0	1061.8
10°	1064.6	1054.7	1058.5	1055.4	1054.4
12.5°	1056.5	1045.7	1049.5	1046.5	1046.3
15°	1041.2	1029.3	1034.1	1032.0	1032.0
17.5°	1022.3	1010.5	1016.4	1012.7	1011.1
20°	1007.6	996.7	1002.5	996.4	996.4
22.5°	992.1	981.2	986.2	979.3	979.3
25°	964.9	954.9	960.8	951.7	952.6
27.5°	935.1	926.2	931.3	922.5	922.9
30°	914.0	905.0	910.9	899.8	901.8
32.5°	892.0	883.8	887.3	877.7	878.1
35°	856.0	850.0	851.9	842.8	844.8
37.5°	818.9	811.9	813.8	804.5	806.5
40°	792.9	785.9	787.8	777.6	779.6
42.5°	765.2	759.0	760.1	750.0	752.8
45°	723.6	716.7	717.5	708.4	710.4
47.5°	679.1	673.5	672.3	664.0	665.8
50°	647.3	643.3	642.2	633.1	634.1
52.5°	615.6	612.4	609.7	601.4	604.0
55°	567.9	564.9	560.8	553.7	553.7
57.5°	518.5	515.5	510.3	503.2	505.2
60°	483.4	480.5	475.3	468.2	470.2
62.5°	448.4	445.5	439.5	433.2	434.4
65°	395.9	391.9	385.7	379.7	380.7
67.5°	339.5	335.8	330.6	324.7	325.9
70°	301.3	298.3	293.1	288.1	290.1
72.5°	261.4	258.4	254.0	251.4	251.0
75°	203.6	202.6	199.5	197.4	196.4
77.5°	148.8	150.2	146.6	145.7	145.5
80°	113.0	116.0	114.0	114.0	113.0
82.5°	81.2	85.8	84.7	84.7	84.5
85°	40.7	45.7	45.8	47.8	47.8
87.5°	11.4	16.2	18.7	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.6	111.9	263.5	128.1	86.9
95°	40.8	206.8	708.1	460.5	322.6
97.5°	72.3	229.1	932.6	898.5	771.3
100°	96.8	242.9	1056.2	1115.0	1010.4
102.5°	119.9	255.4	1137.7	1295.3	1233.2
105°	159.6	275.8	1200.6	1553.3	1533.4
107.5°	198.7	300.0	1163.5	1760.3	1807.1
110°	225.8	320.5	1103.8	1849.6	1937.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	253.0	341.0	1050.8	1871.3	2021.8
115°	292.1	373.4	964.5	1828.6	2039.4
117.5°	330.8	407.5	913.9	1730.2	1977.3
120°	356.6	428.0	881.3	1653.1	1912.1
122.5°	383.8	449.9	860.9	1574.2	1829.2
125°	416.0	479.1	837.2	1454.3	1708.3
127.5°	448.0	507.4	820.5	1352.7	1575.9
130°	467.0	525.1	815.1	1282.0	1501.1
132.5°	484.6	545.4	806.9	1230.9	1416.9
135°	511.1	570.9	803.2	1146.8	1319.4
137.5°	536.3	596.4	791.3	1089.8	1219.9
140°	555.3	610.1	791.3	1048.8	1168.3
142.5°	574.3	629.1	784.5	1013.0	1114.0
145°	604.5	649.4	787.9	974.8	1051.1
147.5°	632.7	676.2	785.9	930.6	993.7
150°	650.4	688.6	791.3	911.3	961.1
152.5°	669.4	706.3	790.0	890.8	935.3
155°	692.8	722.7	798.1	863.4	894.9
157.5°	721.0	746.6	796.4	852.9	871.5
160°	731.9	753.5	803.2	839.2	852.5
162.5°	749.5	768.5	800.5	835.0	842.9
165°	765.9	777.5	808.3	820.5	832.1
167.5°	785.9	793.5	806.3	819.5	819.9
170°	791.3	796.3	811.7	810.2	818.5
172.5°	800.8	804.5	807.6	811.2	806.3
175°	810.0	806.7	810.0	803.2	801.5
177.5°	808.3	808.3	805.6	802.7	796.1
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)