

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: P521390

Luminaire Tested: **SQ4-F-025U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521390  
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-025U-125D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

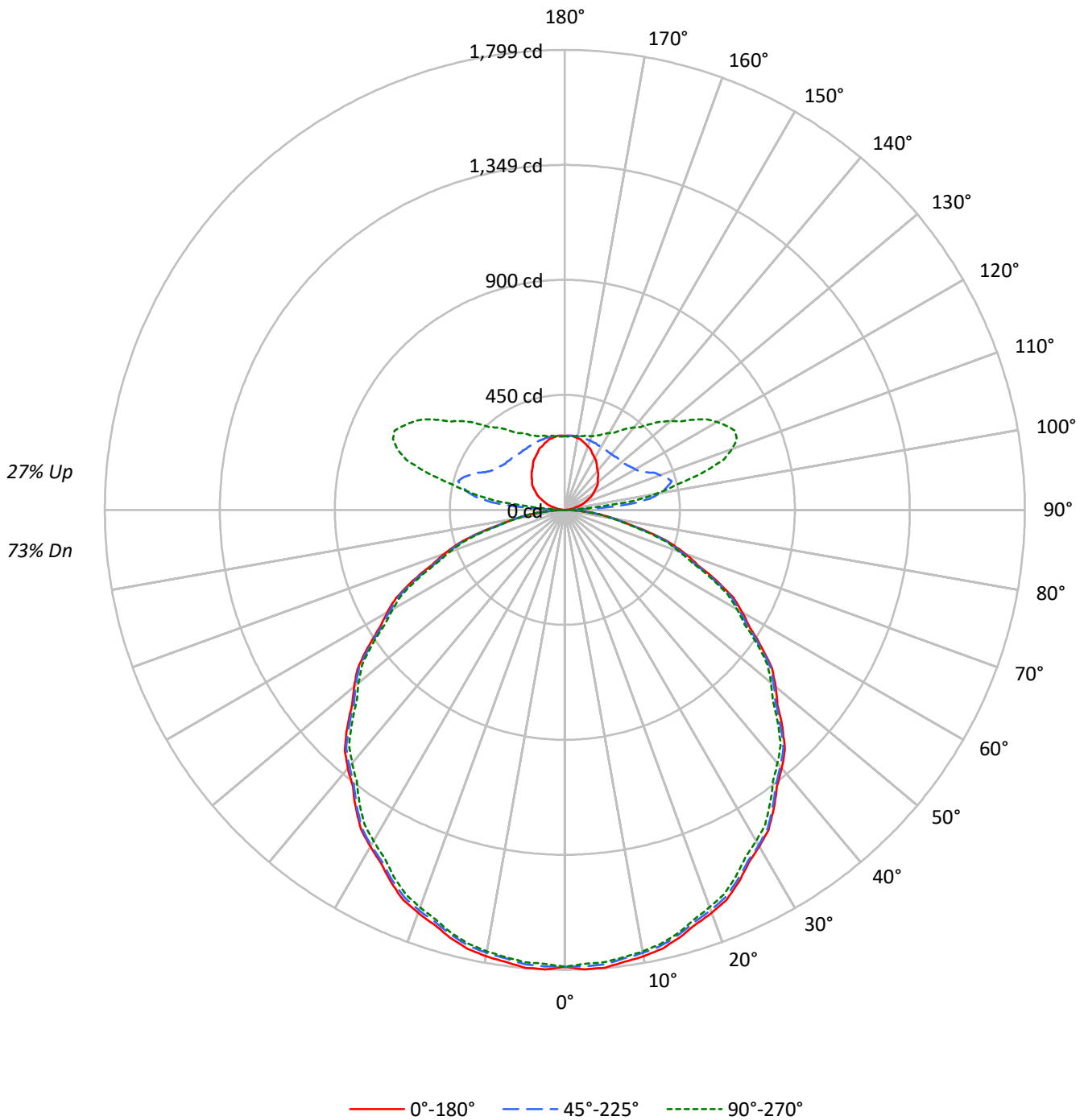
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6961.1 lumens  
Efficiency: N/A  
Efficacy: 99.7 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-Direct

Input Watts (W): 69.8  
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	67	65	61
2	93	86	79	74	88	81	76	71	74	69	65	66	63	60	60	57	54	51
3	85	75	67	61	80	71	64	59	65	59	54	58	54	50	53	49	46	43
4	78	66	58	52	73	63	56	50	57	51	46	52	47	43	47	43	39	36
5	71	59	50	44	67	56	49	43	51	45	40	47	41	37	42	38	34	31
6	66	53	44	38	62	51	43	37	46	40	35	42	37	32	38	34	30	28
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	35	30	27	24
8	57	44	35	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	25	21	27	23	19	18

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

	0°	45°	90°
0°	16489	16489	16489
5°	16647	16524	16448
10°	16610	16486	16429
15°	16546	16439	16371
20°	16478	16368	16248
25°	16360	16267	16112
30°	16200	16145	15939
35°	16049	15969	15774
40°	15899	15788	15580
45°	15697	15563	15365
50°	15441	15325	15106
55°	15144	14996	14800
60°	14780	14574	14330
65°	14286	13998	13732
70°	13453	13124	12875
75°	12263	11899	11646
80°	10111	10058	9840
85°	7220	8193	8193



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	2.4
10°-20°	484.6	7.0
20°-30°	732.8	10.5
30°-40°	882.3	12.7
40°-50°	916.2	13.2
50°-60°	830.3	11.9
60°-70°	632.3	9.1
70°-80°	353.4	5.1
80°-90°	91.9	1.3
90°-100°	148.7	2.1
100°-110°	359.5	5.2
110°-120°	383.4	5.5
120°-130°	310.5	4.5
130°-140°	240.4	3.5
140°-150°	183.4	2.6
150°-160°	132.8	1.9
160°-170°	81.8	1.2
170°-180°	27.7	0.4
0°-30°	1386.6	19.9
0°-40°	2268.8	32.6
0°-60°	4015.3	57.7
0°-90°	5092.9	73.2
90°-120°	891.6	12.8
90°-150°	1626.0	23.4
90°-180°	1868.0	26.8
0°-180°	6961.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1797	1778	1784	1777	1776	171
15°	1732	1714	1721	1717	1714	489
25°	1607	1589	1598	1584	1583	740
35°	1425	1412	1418	1402	1400	891
45°	1203	1193	1193	1178	1178	927
55°	942	938	932	920	920	841
65°	654	648	641	630	629	646
75°	344	336	334	329	327	362
85°	68	74	77	78	77	84
90°	0	0	0	0	0	3
95°	15	74	255	166	116	16
105°	57	99	432	559	552	61
115°	105	134	347	658	734	104
125°	150	172	301	523	615	134
135°	184	206	289	413	475	142
145°	218	234	284	351	378	136
155°	249	260	287	311	322	115
165°	276	280	291	295	300	78
175°	292	290	292	289	288	28
180°	288	288	288	288	288	

TEST NUMBER: P521390

CATALOG NUMBER: SQ4-F-025U-125D-93050-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1787.2	1787.2	1787.2	1787.2	1787.2
2.5°	1799.4	1783.5	1788.0	1784.6	1777.5
5°	1797.4	1778.5	1784.2	1777.0	1776.0
7.5°	1783.6	1764.7	1770.3	1766.0	1765.0
10°	1773.0	1754.1	1759.7	1754.6	1753.6
12.5°	1758.3	1740.2	1745.9	1740.0	1739.0
15°	1732.3	1714.4	1721.1	1716.9	1713.9
17.5°	1700.3	1682.0	1689.9	1683.7	1680.2
20°	1678.3	1658.4	1667.1	1656.9	1654.9
22.5°	1651.5	1631.6	1640.3	1627.6	1627.2
25°	1607.1	1589.2	1597.9	1583.6	1582.7
27.5°	1557.2	1540.5	1549.7	1532.3	1531.2
30°	1520.6	1504.6	1515.5	1498.1	1496.1
32.5°	1483.1	1469.6	1476.4	1461.5	1458.7
35°	1424.9	1412.0	1417.8	1401.5	1400.5
37.5°	1362.4	1349.5	1354.9	1339.4	1337.6
40°	1320.1	1307.1	1310.9	1294.6	1293.6
42.5°	1273.7	1263.1	1265.3	1248.2	1248.8
45°	1203.0	1193.1	1192.8	1177.6	1177.6
47.5°	1127.9	1118.0	1118.1	1104.1	1102.9
50°	1075.8	1069.8	1067.7	1054.4	1052.4
52.5°	1022.1	1017.7	1013.9	1000.7	1000.3
55°	941.5	937.5	932.3	920.1	920.1
57.5°	858.8	854.2	847.6	835.4	834.4
60°	801.0	798.0	789.8	777.6	776.6
62.5°	743.2	737.8	731.2	719.8	718.8
65°	654.4	647.5	641.2	630.0	629.0
67.5°	562.2	554.5	549.2	541.4	538.4
70°	498.7	491.7	486.5	480.3	477.3
72.5°	435.2	429.0	425.4	419.3	416.3
75°	344.0	336.0	333.8	328.7	326.7
77.5°	251.4	247.4	245.5	241.8	239.0
80°	190.3	190.3	189.3	187.2	185.2
82.5°	137.4	139.0	140.5	140.0	138.0
85°	68.2	74.2	77.4	78.3	77.4
87.5°	19.5	25.9	30.9	31.7	30.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.3	94.8	46.1	31.3
95°	14.7	74.4	254.8	165.7	116.1
97.5°	26.0	82.4	335.6	323.3	277.6
100°	34.8	87.4	380.1	401.3	363.6
102.5°	43.1	91.9	409.5	466.1	443.8
105°	57.4	99.3	432.1	559.0	551.8
107.5°	71.5	108.0	418.7	633.5	650.4
110°	81.3	115.3	397.2	665.6	697.3



TEST NUMBER: P521390

CATALOG NUMBER: SQ4-F-025U-125D-93050-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	91.1	122.7	378.2	673.5	727.6
115°	105.1	134.4	347.1	658.1	734.0
117.5°	119.0	146.7	328.9	622.7	711.6
120°	128.3	154.0	317.2	594.9	688.1
122.5°	138.1	161.9	309.8	566.5	658.3
125°	149.7	172.4	301.3	523.4	614.8
127.5°	161.2	182.6	295.3	486.8	567.1
130°	168.1	189.0	293.3	461.4	540.2
132.5°	174.4	196.3	290.4	443.0	509.9
135°	183.9	205.5	289.1	412.7	474.8
137.5°	193.0	214.6	284.8	392.2	439.0
140°	199.8	219.6	284.8	377.4	420.5
142.5°	206.7	226.4	282.3	364.6	400.9
145°	217.6	233.7	283.6	350.8	378.3
147.5°	227.7	243.4	282.8	334.9	357.6
150°	234.1	247.8	284.8	328.0	345.9
152.5°	240.9	254.2	284.3	320.6	336.6
155°	249.3	260.1	287.2	310.7	322.1
157.5°	259.5	268.7	286.6	306.9	313.6
160°	263.4	271.2	289.1	302.0	306.8
162.5°	269.8	276.6	288.1	300.5	303.4
165°	275.6	279.8	290.9	295.3	299.5
167.5°	282.8	285.6	290.2	294.9	295.1
170°	284.8	286.6	292.1	291.6	294.6
172.5°	288.2	289.5	290.7	292.0	290.2
175°	291.5	290.3	291.5	289.0	288.5
177.5°	290.9	290.9	289.9	288.9	286.5
180°	288.5	288.5	288.5	288.5	288.5

(END OF REPORT)