

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: P521375

Luminaire Tested: **SQ4-F-025U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521375
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-100D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

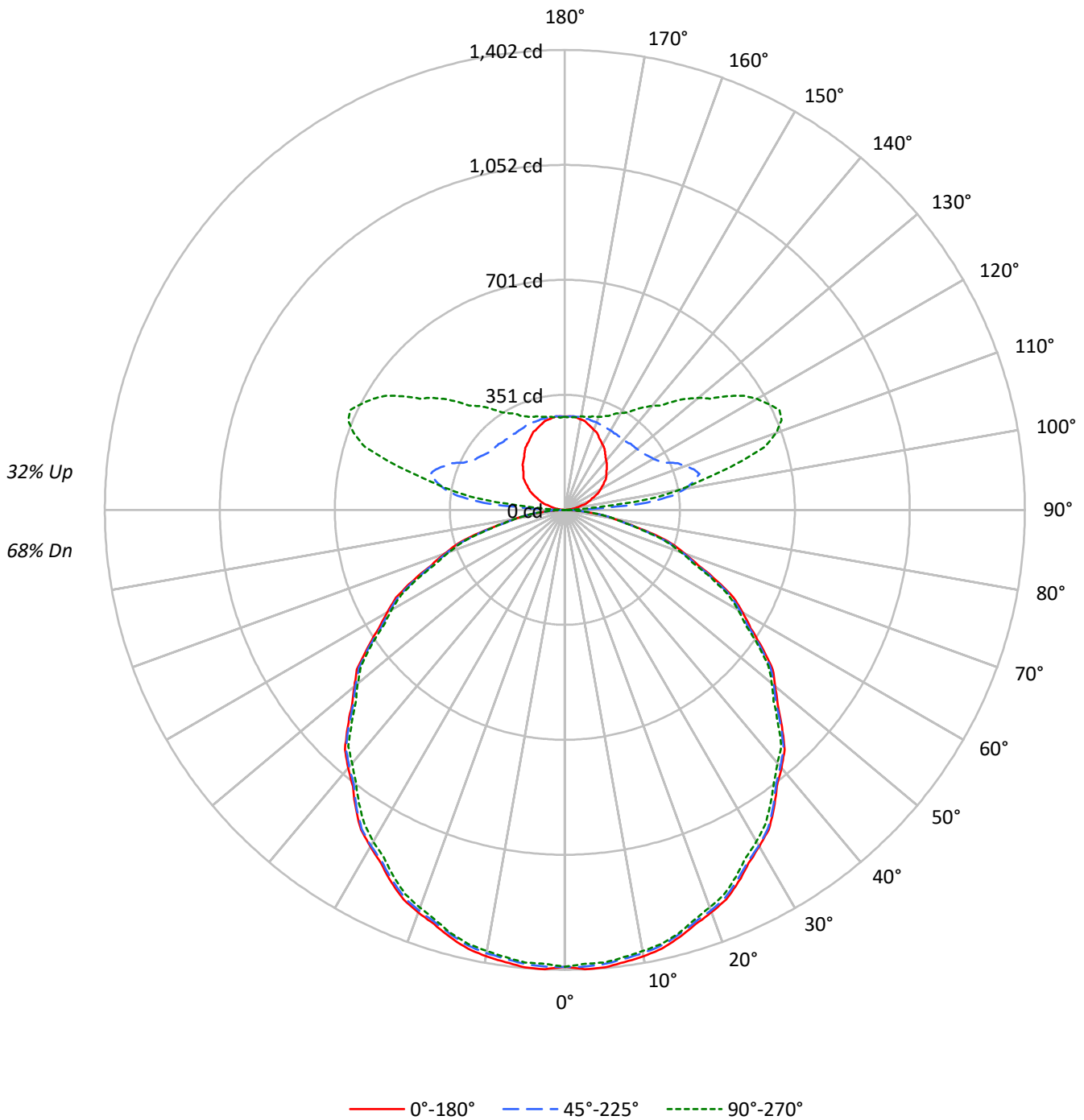
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5811.0 lumens
Efficiency: N/A
Efficacy: 102.3 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-Direct

Input Watts (W): 56.8
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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57
2	92	85	78	73	87	80	74	69	72	67	63	64	60	57	56	54	51	48
3	84	74	67	60	79	70	63	58	63	57	53	56	52	48	50	46	43	40
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	58	50	44	66	55	48	42	50	44	39	45	39	35	40	36	32	29
6	65	52	44	38	61	50	42	36	45	38	34	40	35	31	36	32	28	26
7	60	47	39	33	57	45	37	32	41	34	30	37	31	27	33	28	25	23
8	56	43	35	29	53	41	34	28	37	31	26	34	28	24	30	26	22	20
9	52	39	32	26	49	38	30	25	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	29	23	20	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12852	12852	12852
5°	12966	12873	12827
10°	12947	12854	12797
15°	12885	12809	12771
20°	12823	12764	12666
25°	12745	12674	12562
30°	12624	12592	12443
35°	12513	12468	12311
40°	12369	12309	12140
45°	12213	12148	11978
50°	12014	11942	11827
55°	11807	11694	11565
60°	11533	11404	11238
65°	11156	10937	10741
70°	10520	10278	10089
75°	9589	9268	9090
80°	7863	7863	7863
85°	5611	6352	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	2.3
10°-20°	377.7	6.5
20°-30°	571.3	9.8
30°-40°	688.1	11.8
40°-50°	714.6	12.3
50°-60°	648.5	11.2
60°-70°	494.8	8.5
70°-80°	276.6	4.8
80°-90°	72.0	1.2
90°-100°	146.1	2.5
100°-110°	353.2	6.1
110°-120°	376.7	6.5
120°-130°	305.1	5.3
130°-140°	236.2	4.1
140°-150°	180.2	3.1
150°-160°	130.4	2.2
160°-170°	80.3	1.4
170°-180°	27.2	0.5
0°-30°	1080.9	18.6
0°-40°	1768.9	30.4
0°-60°	3132.0	53.9
0°-90°	3975.4	68.4
90°-120°	876.1	15.1
90°-150°	1597.6	27.5
90°-180°	1836.0	31.6
0°-180°	5811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1400	1385	1390	1387	1385	133
15°	1349	1335	1341	1337	1337	381
25°	1252	1239	1245	1234	1234	576
35°	1111	1101	1107	1093	1093	694
45°	936	929	931	918	918	722
55°	734	732	727	719	719	657
65°	511	507	501	494	492	504
75°	269	265	260	256	255	283
85°	53	58	60	61	63	66
90°	0	0	0	0	0	3
95°	14	73	250	163	114	16
105°	56	98	424	549	542	60
115°	103	132	341	647	721	102
125°	147	169	296	514	604	131
135°	181	202	284	406	466	140
145°	214	230	279	345	372	134
155°	245	256	282	305	316	113
165°	271	275	286	290	294	76
175°	286	285	286	284	283	27
180°	283	283	283	283	283	



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CATALOG NUMBER: SQ4-F-025U-100D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1401.8	1390.1	1393.8	1392.0	1385.0
5°	1400.0	1385.3	1390.0	1387.0	1385.0
7.5°	1390.8	1376.1	1380.8	1376.8	1375.6
10°	1382.0	1367.3	1372.0	1368.0	1366.0
12.5°	1370.0	1356.1	1360.8	1356.0	1355.6
15°	1349.0	1335.3	1341.0	1337.0	1337.0
17.5°	1324.4	1311.7	1317.6	1311.8	1310.8
20°	1306.0	1293.3	1300.0	1291.0	1290.0
22.5°	1285.2	1273.3	1279.2	1268.6	1269.2
25°	1252.0	1239.3	1245.0	1234.0	1234.0
27.5°	1213.8	1201.3	1208.4	1195.2	1194.4
30°	1185.0	1173.3	1182.0	1168.0	1168.0
32.5°	1156.2	1146.0	1152.4	1139.1	1136.8
35°	1111.0	1101.2	1107.0	1093.0	1093.0
37.5°	1061.4	1053.4	1056.4	1043.5	1046.4
40°	1027.0	1018.2	1022.0	1009.0	1008.0
42.5°	991.8	983.8	986.8	973.9	976.8
45°	936.0	929.2	931.0	918.0	918.0
47.5°	879.4	874.3	872.8	861.2	863.2
50°	837.0	835.0	832.0	822.0	824.0
52.5°	798.6	794.3	790.4	781.2	782.4
55°	734.0	732.0	727.0	719.0	719.0
57.5°	672.2	667.9	662.0	653.8	653.8
60°	625.0	623.0	618.0	609.0	609.0
62.5°	580.2	577.5	571.6	563.4	562.6
65°	511.0	507.1	501.0	494.0	492.0
67.5°	438.8	434.7	429.8	423.2	422.0
70°	390.0	385.1	381.0	376.0	374.0
72.5°	340.4	337.9	333.0	328.0	326.8
75°	269.0	265.1	260.0	256.0	255.0
77.5°	193.6	193.0	191.2	188.6	189.6
80°	148.0	149.0	148.0	147.0	148.0
82.5°	107.2	109.7	109.6	109.4	110.4
85°	53.0	57.9	60.0	61.0	63.0
87.5°	15.2	19.9	24.0	24.8	25.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	39.6	93.2	45.3	30.7
95°	14.4	73.1	250.4	162.8	114.1
97.5°	25.6	81.0	329.8	317.7	272.7
100°	34.2	85.9	373.5	394.3	357.3
102.5°	42.4	90.3	402.3	458.0	436.0
105°	56.4	97.5	424.5	549.3	542.2
107.5°	70.3	106.1	411.4	622.4	639.0
110°	79.9	113.3	390.3	654.0	685.1

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CATALOG NUMBER: SQ4-F-025U-100D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.5	120.6	371.6	661.7	714.9
115°	103.3	132.0	341.1	646.6	721.1
117.5°	117.0	144.1	323.2	611.8	699.2
120°	126.1	151.3	311.6	584.5	676.1
122.5°	135.7	159.1	304.4	556.6	646.8
125°	147.1	169.4	296.0	514.2	604.1
127.5°	158.4	179.4	290.1	478.3	557.2
130°	165.1	185.7	288.2	453.3	530.8
132.5°	171.4	192.9	285.3	435.3	501.0
135°	180.7	201.9	284.0	405.5	466.5
137.5°	189.6	210.9	279.8	385.3	431.4
140°	196.3	215.7	279.8	370.8	413.1
142.5°	203.1	222.4	277.4	358.2	393.9
145°	213.8	229.6	278.6	344.7	371.7
147.5°	223.7	239.1	277.9	329.1	351.4
150°	230.0	243.5	279.8	322.2	339.9
152.5°	236.7	249.7	279.3	315.0	330.7
155°	245.0	255.6	282.2	305.3	316.4
157.5°	255.0	264.0	281.6	301.6	308.2
160°	258.8	266.4	284.0	296.7	301.4
162.5°	265.0	271.7	283.1	295.2	298.1
165°	270.8	274.9	285.8	290.1	294.2
167.5°	277.9	280.6	285.1	289.8	289.9
170°	279.8	281.6	287.0	286.5	289.4
172.5°	283.2	284.5	285.6	286.9	285.1
175°	286.4	285.2	286.4	284.0	283.4
177.5°	285.8	285.8	284.9	283.8	281.5
180°	283.4	283.4	283.4	283.4	283.4

(END OF REPORT)