

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

Brand: CORELITE

Report Number: P521535

Luminaire Tested: SQ4-F-0U-125D-92765-1D-UNV-STD-W-4_2700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521535
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-39)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-F-0U-125D-92765-1D-UNV-STD-W-4_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4972.7 lumens
Efficiency: N/A
Efficacy: 89.4 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: Direct

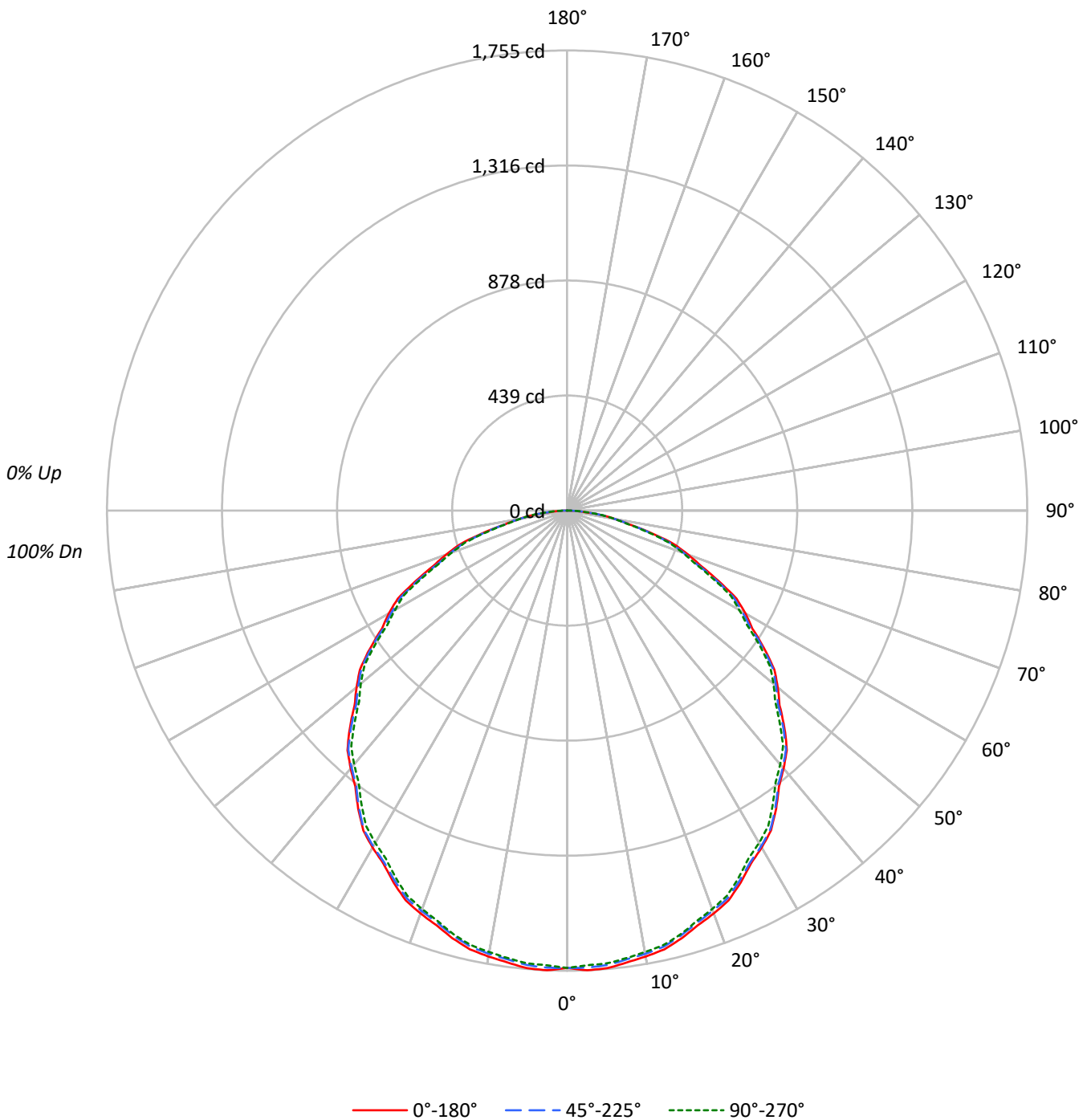
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58				58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50				50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43				43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38				38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30				30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16091	16091	16091
5°	16224	16118	16056
10°	16179	16080	16017
15°	16129	16029	15983
20°	16054	15950	15875
25°	15934	15846	15739
30°	15809	15758	15595
35°	15647	15593	15399
40°	15463	15407	15222
45°	15292	15193	14955
50°	15051	14928	14748
55°	14774	14636	14404
60°	14494	14229	13981
65°	13930	13640	13367
70°	13240	12776	12619
75°	11970	11628	11425
80°	9861	9861	9707
85°	6987	8003	8405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15292 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	3.3
10°-20°	472.7	9.5
20°-30°	715.0	14.4
30°-40°	861.2	17.3
40°-50°	894.1	18.0
50°-60°	810.6	16.3
60°-70°	618.3	12.4
70°-80°	345.8	7.0
80°-90°	89.9	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1352.8	27.2
0°-40°	2214.0	44.5
0°-60°	3918.6	78.8
0°-90°	4972.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4972.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1752	1734	1740	1736	1734	166
15°	1689	1672	1678	1676	1673	476
25°	1565	1549	1557	1545	1546	721
35°	1389	1378	1384	1369	1367	868
45°	1172	1166	1164	1150	1146	903
55°	918	917	910	898	896	820
65°	638	634	625	617	612	633
75°	336	330	326	321	320	355
85°	66	73	76	76	79	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744.1	1744.1	1744.1	1744.1	1744.1
2.5°	1754.8	1740.6	1744.9	1741.7	1735.7
5°	1751.8	1734.0	1740.3	1735.5	1733.6
7.5°	1738.4	1721.7	1727.1	1724.2	1721.9
10°	1726.9	1711.0	1716.4	1713.4	1709.7
12.5°	1713.9	1697.2	1703.4	1698.9	1697.4
15°	1688.6	1671.8	1678.1	1676.1	1673.3
17.5°	1658.0	1641.0	1647.5	1643.6	1641.4
20°	1635.1	1617.3	1624.5	1616.9	1616.9
22.5°	1609.0	1591.3	1600.0	1588.6	1590.9
25°	1565.2	1549.3	1556.6	1545.2	1546.1
27.5°	1517.6	1502.6	1512.0	1497.3	1496.7
30°	1483.9	1468.9	1479.1	1462.9	1463.8
32.5°	1446.4	1433.7	1442.4	1426.9	1426.3
35°	1389.2	1378.0	1384.4	1369.0	1367.2
37.5°	1326.8	1318.6	1321.3	1306.7	1305.9
40°	1283.9	1276.5	1279.2	1263.9	1263.9
42.5°	1240.3	1233.6	1235.5	1218.7	1218.7
45°	1172.0	1165.5	1164.4	1149.9	1146.2
47.5°	1099.1	1093.9	1090.5	1077.4	1075.8
50°	1048.6	1044.8	1040.0	1028.5	1027.5
52.5°	995.8	994.3	988.7	976.4	975.5
55°	918.5	916.6	909.9	898.3	895.5
57.5°	837.5	835.7	827.8	816.4	813.6
60°	785.5	779.9	771.1	760.5	757.7
62.5°	728.8	722.5	713.7	704.0	703.4
65°	638.1	634.4	624.8	617.0	612.3
67.5°	552.8	544.4	534.8	528.5	527.5
70°	490.8	482.4	473.6	468.8	467.8
72.5°	428.8	421.9	413.9	409.1	408.9
75°	335.8	330.2	326.2	321.4	320.5
77.5°	243.8	242.3	240.7	235.5	235.5
80°	185.6	185.6	185.6	182.7	182.7
82.5°	133.6	137.3	137.4	136.0	136.0
85°	66.0	72.6	75.6	75.7	79.4
87.5°	18.4	25.1	29.9	30.7	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)