

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: P521544

Luminaire Tested: **SQ4-F-0U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521544
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-125D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

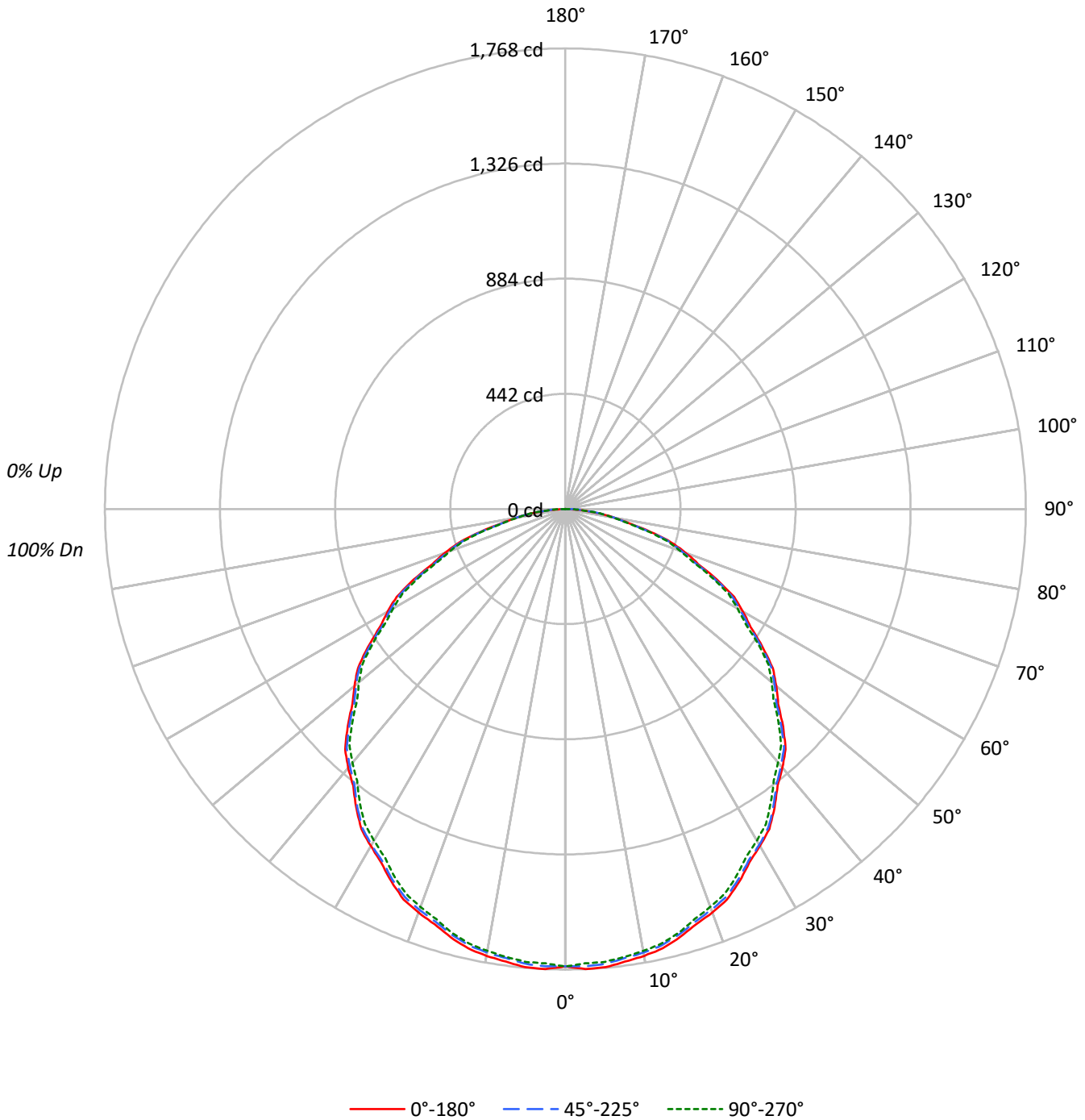
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5003.9 lumens
Efficiency: N/A
Efficacy: 90.0 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16201	16201	16201
5°	16356	16235	16161
10°	16320	16198	16142
15°	16257	16152	16085
20°	16190	16082	15965
25°	16074	15983	15830
30°	15916	15863	15661
35°	15768	15690	15498
40°	15621	15513	15308
45°	15423	15292	15096
50°	15172	15057	14841
55°	14879	14734	14541
60°	14522	14319	14079
65°	14037	13754	13492
70°	13218	12894	12652
75°	12049	11692	11443
80°	9936	9882	9670
85°	7093	8045	8045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	3.3
10°-20°	476.1	9.5
20°-30°	720.0	14.4
30°-40°	866.9	17.3
40°-50°	900.2	18.0
50°-60°	815.8	16.3
60°-70°	621.3	12.4
70°-80°	347.2	6.9
80°-90°	90.3	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°	1362.3	27.2
0°-40°	2229.2	44.5
0°-60°	3945.1	78.8
0°-90°	5003.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5003.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1766	1747	1753	1746	1745	168
15°	1702	1684	1691	1687	1684	480
25°	1579	1561	1570	1556	1555	727
35°	1400	1387	1393	1377	1376	876
45°	1182	1172	1172	1157	1157	911
55°	925	921	916	904	904	826
65°	643	636	630	619	618	634
75°	338	330	328	323	321	356
85°	67	73	76	77	76	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.0	1756.0	1756.0	1756.0	1756.0
2.5°	1768.0	1752.4	1756.8	1753.4	1746.4
5°	1766.0	1747.4	1753.0	1746.0	1745.0
7.5°	1752.4	1733.8	1739.4	1735.2	1734.2
10°	1742.0	1723.4	1729.0	1724.0	1723.0
12.5°	1727.6	1709.8	1715.4	1709.6	1708.6
15°	1702.0	1684.4	1691.0	1686.9	1684.0
17.5°	1670.6	1652.6	1660.4	1654.3	1650.8
20°	1649.0	1629.4	1638.0	1628.0	1626.0
22.5°	1622.6	1603.0	1611.6	1599.2	1598.8
25°	1579.0	1561.4	1570.0	1556.0	1555.0
27.5°	1530.0	1513.6	1522.6	1505.6	1504.4
30°	1494.0	1478.4	1489.0	1472.0	1470.0
32.5°	1457.2	1443.9	1450.6	1435.9	1433.2
35°	1400.0	1387.3	1393.0	1377.0	1376.0
37.5°	1338.6	1325.9	1331.2	1316.0	1314.2
40°	1297.0	1284.3	1288.0	1272.0	1271.0
42.5°	1251.4	1241.0	1243.2	1226.4	1227.0
45°	1182.0	1172.2	1172.0	1157.0	1157.0
47.5°	1108.2	1098.4	1098.6	1084.8	1083.6
50°	1057.0	1051.1	1049.0	1036.0	1034.0
52.5°	1004.2	999.9	996.2	983.2	982.8
55°	925.0	921.1	916.0	904.0	904.0
57.5°	843.8	839.3	832.8	820.8	819.8
60°	787.0	784.1	776.0	764.0	763.0
62.5°	730.2	724.9	718.4	707.2	706.2
65°	643.0	636.2	630.0	619.0	618.0
67.5°	552.4	544.8	539.6	531.9	529.0
70°	490.0	483.2	478.0	471.9	469.0
72.5°	427.6	421.5	418.0	411.9	409.0
75°	338.0	330.2	328.0	323.0	321.0
77.5°	247.0	243.1	241.2	237.5	234.8
80°	187.0	187.0	186.0	184.0	182.0
82.5°	135.0	136.6	138.0	137.6	135.6
85°	67.0	72.9	76.0	77.0	76.0
87.5°	19.2	25.5	30.4	31.2	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)