

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: P521647

Luminaire Tested: **SQ4-F-125U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521647
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-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

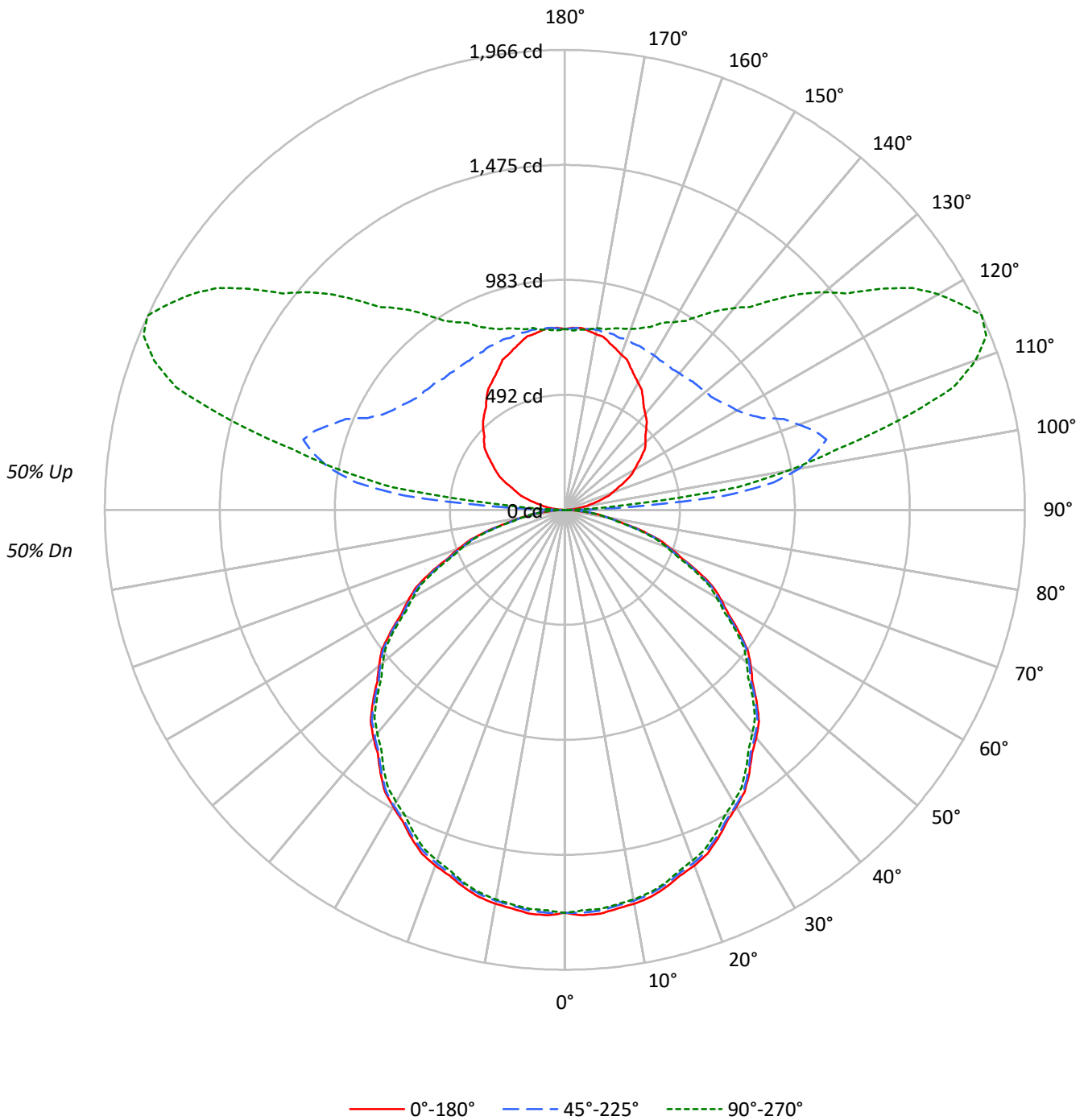
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9914.6 lumens
Efficiency: N/A
Efficacy: 102.4 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: General Diffuse

Input Watts (W): 96.8
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	39	44	38	34	37	33	29	30	27	25	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	31	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15897	15897	15897
5°	16048	15931	15857
10°	16014	15894	15838
15°	15951	15848	15783
20°	15886	15780	15665
25°	15772	15682	15533
30°	15617	15565	15367
35°	15472	15394	15206
40°	15327	15221	15020
45°	15133	15005	14813
50°	14886	14774	14563
55°	14599	14458	14268
60°	14249	14050	13815
65°	13773	13496	13238
70°	12970	12652	12414
75°	11821	11471	11229
80°	9750	9697	9489
85°	6955	7897	7897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	1.6
10°-20°	467.2	4.7
20°-30°	706.5	7.1
30°-40°	850.6	8.6
40°-50°	883.3	8.9
50°-60°	800.5	8.1
60°-70°	609.6	6.1
70°-80°	340.7	3.4
80°-90°	88.6	0.9
90°-100°	398.5	4.0
100°-110°	963.0	9.7
110°-120°	1027.1	10.4
120°-130°	831.9	8.4
130°-140°	644.1	6.5
140°-150°	491.3	5.0
150°-160°	355.7	3.6
160°-170°	219.1	2.2
170°-180°	74.2	0.7
0°-30°	1336.7	13.5
0°-40°	2187.3	22.1
0°-60°	3871.0	39.0
0°-90°	4909.9	49.5
90°-120°	2388.6	24.1
90°-150°	4355.8	43.9
90°-180°	5005.0	50.5
0°-180°	9914.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1733	1715	1720	1713	1712	164
15°	1670	1653	1659	1655	1652	471
25°	1549	1532	1540	1527	1526	713
35°	1374	1361	1367	1351	1350	859
45°	1160	1150	1150	1135	1135	894
55°	908	904	899	887	887	811
65°	631	624	618	607	606	622
75°	332	324	322	317	315	349
85°	66	72	75	76	75	81
90°	0	0	0	0	0	4
95°	39	199	683	444	311	44
105°	154	266	1157	1498	1478	163
115°	282	360	930	1763	1966	278
125°	401	462	807	1402	1647	358
135°	493	550	774	1106	1272	380
145°	583	626	760	940	1013	364
155°	668	697	769	832	863	308
165°	738	750	779	791	802	208
175°	781	778	781	774	773	74
180°	773	773	773	773	773	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.0	1723.0	1723.0	1723.0	1723.0
2.5°	1734.8	1719.4	1723.8	1720.5	1713.6
5°	1732.8	1714.6	1720.1	1713.2	1712.2
7.5°	1719.5	1701.2	1706.7	1702.6	1701.6
10°	1709.3	1691.0	1696.5	1691.6	1690.6
12.5°	1695.1	1677.7	1683.2	1677.5	1676.5
15°	1670.0	1652.8	1659.2	1655.2	1652.4
17.5°	1639.2	1621.6	1629.2	1623.2	1619.8
20°	1618.0	1598.8	1607.2	1597.4	1595.5
22.5°	1592.1	1572.9	1581.3	1569.1	1568.8
25°	1549.3	1532.1	1540.5	1526.7	1525.8
27.5°	1501.3	1485.1	1494.0	1477.3	1476.1
30°	1465.9	1450.6	1461.0	1444.3	1442.4
32.5°	1429.8	1416.8	1423.3	1409.0	1406.3
35°	1373.7	1361.2	1366.8	1351.1	1350.1
37.5°	1313.5	1301.0	1306.2	1291.2	1289.5
40°	1272.6	1260.2	1263.8	1248.1	1247.1
42.5°	1227.9	1217.7	1219.8	1203.4	1203.9
45°	1159.8	1150.2	1150.0	1135.3	1135.3
47.5°	1087.4	1077.8	1078.0	1064.4	1063.2
50°	1037.1	1031.4	1029.3	1016.5	1014.6
52.5°	985.3	981.1	977.5	964.7	964.3
55°	907.6	903.8	898.8	887.0	887.0
57.5°	827.9	823.5	817.2	805.4	804.4
60°	772.2	769.3	761.4	749.6	748.7
62.5°	716.5	711.3	704.9	693.9	692.9
65°	630.9	624.2	618.2	607.3	606.4
67.5°	542.0	534.5	529.5	521.9	519.1
70°	480.8	474.1	469.0	463.1	460.2
72.5°	419.6	413.6	410.1	404.2	401.3
75°	331.6	324.0	321.8	316.9	315.0
77.5°	242.4	238.5	236.7	233.1	230.4
80°	183.5	183.5	182.5	180.5	178.6
82.5°	132.5	134.0	135.4	135.0	133.1
85°	65.7	71.5	74.6	75.5	74.6
87.5°	18.8	25.0	29.8	30.6	29.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	107.9	254.1	123.5	83.8
95°	39.3	199.4	682.7	443.9	311.0
97.5°	69.7	220.8	899.1	866.2	743.6
100°	93.3	234.2	1018.3	1074.9	974.1
102.5°	115.6	246.2	1096.9	1248.7	1188.9
105°	153.9	265.9	1157.4	1497.5	1478.3
107.5°	191.5	289.2	1121.7	1697.1	1742.2
110°	217.7	309.0	1064.1	1783.1	1867.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	243.9	328.8	1013.0	1804.1	1949.1
115°	281.6	360.0	929.9	1762.9	1966.2
117.5°	318.9	392.9	881.1	1668.1	1906.2
120°	343.8	412.6	849.7	1593.7	1843.4
122.5°	370.0	433.7	830.0	1517.6	1763.5
125°	401.1	461.9	807.1	1402.0	1646.9
127.5°	431.9	489.2	791.0	1304.1	1519.2
130°	450.2	506.2	785.8	1235.9	1447.2
132.5°	467.2	525.8	777.9	1186.7	1366.0
135°	492.8	550.4	774.3	1105.6	1272.0
137.5°	517.0	574.9	762.9	1050.6	1176.1
140°	535.3	588.2	762.9	1011.1	1126.3
142.5°	553.7	606.5	756.3	976.6	1073.9
145°	582.8	626.0	759.6	939.7	1013.4
147.5°	610.0	651.9	757.6	897.2	958.0
150°	627.0	663.8	762.9	878.6	926.6
152.5°	645.3	680.9	761.6	858.8	901.7
155°	667.9	696.7	769.4	832.3	862.8
157.5°	695.1	719.8	767.8	822.2	840.2
160°	705.6	726.4	774.3	809.0	821.8
162.5°	722.6	740.9	771.7	805.0	812.7
165°	738.3	749.5	779.3	791.0	802.2
167.5°	757.6	765.0	777.3	790.1	790.4
170°	762.9	767.7	782.5	781.1	789.1
172.5°	772.1	775.6	778.6	782.1	777.3
175°	780.9	777.7	780.9	774.3	772.7
177.5°	779.3	779.3	776.6	773.9	767.5
180°	772.7	772.7	772.7	772.7	772.7

(END OF REPORT)