

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

(formerly Eaton)

Brand: CORELITE

Report Number: P564518

Luminaire Tested: **SQ4-PR1-150U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564518
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

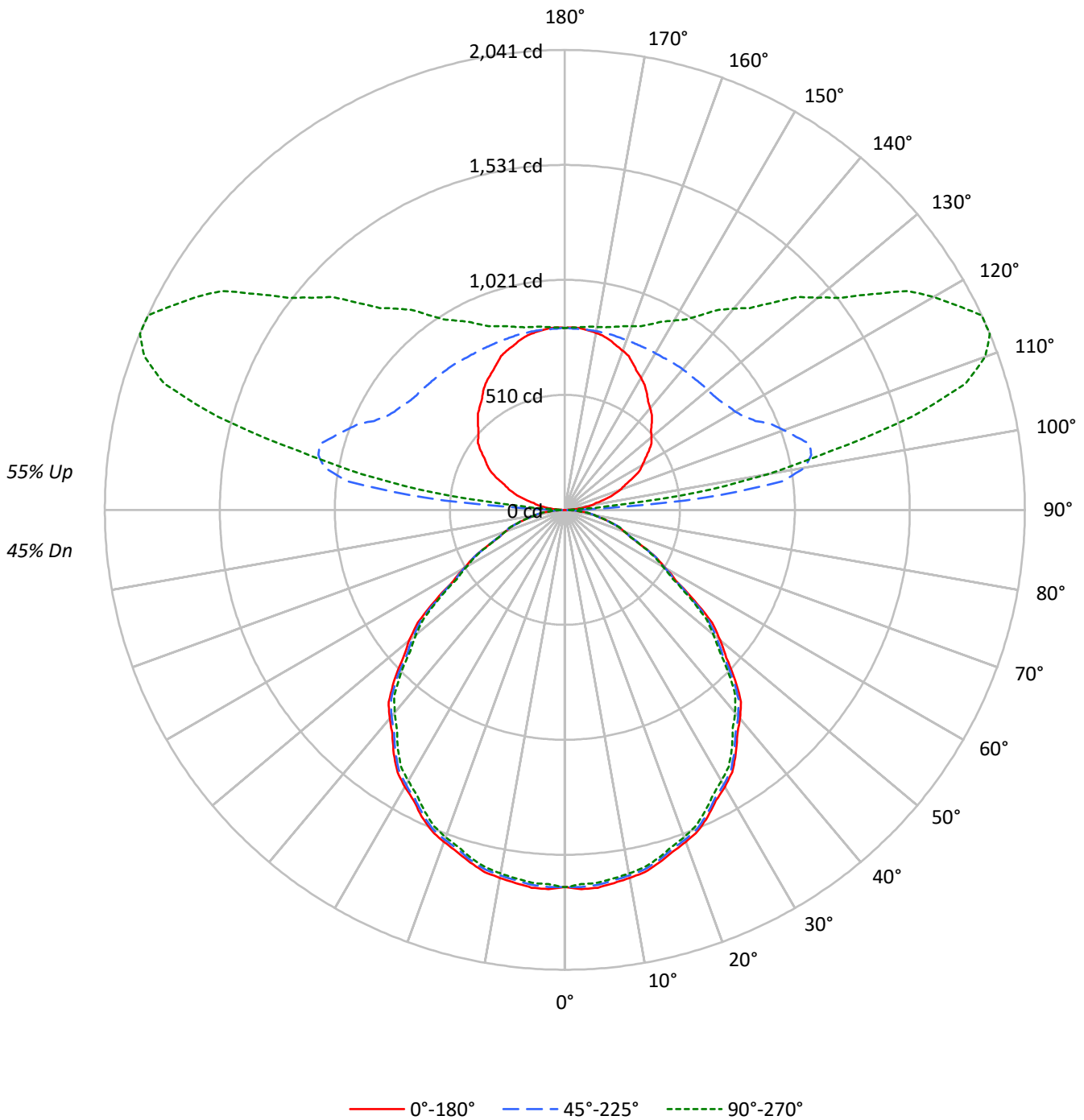
Lumens per Lamp: N/A
Luminaire Lumens: 9395.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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



TEST NUMBER: P564518
CATALOG NUMBER: SQ4-PR1-150U-125D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564518

CATALOG NUMBER: SQ4-PR1-150U-125D-940-1D-UNV-STD-W-4

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15473	15376	15293
20°	15394	15295	15182
25°	15286	15183	15007
30°	15122	15014	14799
35°	14898	14768	14556
40°	14559	14402	14142
45°	13965	13720	13438
50°	12920	12609	12360
55°	11276	11022	10788
60°	9503	9422	9235
65°	8219	8250	8187
70°	7548	7588	7588
75°	7251	7251	7301
80°	6822	6896	6822
85°	5494	6108	6108



TEST NUMBER: P564518

CATALOG NUMBER: SQ4-PR1-150U-125D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	1.7
10°-20°	453.1	4.8
20°-30°	683.4	7.3
30°-40°	814.3	8.7
40°-50°	802.8	8.5
50°-60°	613.6	6.5
60°-70°	379.7	4.0
70°-80°	215.7	2.3
80°-90°	67.3	0.7
90°-100°	375.4	4.0
100°-110°	1014.9	10.8
110°-120°	1067.1	11.4
120°-130°	866.7	9.2
130°-140°	679.9	7.2
140°-150°	521.8	5.6
150°-160°	375.3	4.0
160°-170°	229.3	2.4
170°-180°	77.3	0.8
0°-30°	1294.9	13.8
0°-40°	2109.2	22.4
0°-60°	3525.6	37.5
0°-90°	4188.2	44.6
90°-120°	2457.4	26.2
90°-150°	4525.8	48.2
90°-180°	5208.0	55.4
0°-180°	9395.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1683	1665	1670	1664	1662	160
15°	1620	1603	1610	1604	1601	457
25°	1502	1483	1492	1476	1474	691
35°	1323	1307	1311	1294	1292	826
45°	1070	1056	1052	1033	1030	820
55°	701	690	685	674	671	628
65°	376	374	378	375	375	381
75°	203	203	203	205	205	215
85°	52	55	58	58	58	60
90°	2	5	11	12	11	6
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	



TEST NUMBER: P564518

CATALOG NUMBER: SQ4-PR1-150U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.7	1674.7	1674.7	1674.7	1674.7
2.5°	1685.1	1670.4	1674.7	1671.0	1663.1
5°	1683.3	1665.0	1670.4	1664.5	1661.7
7.5°	1670.4	1652.3	1657.7	1651.9	1650.2
10°	1658.8	1641.9	1647.3	1641.4	1638.6
12.5°	1646.1	1628.1	1634.6	1627.6	1624.8
15°	1619.9	1602.9	1609.8	1603.9	1601.1
17.5°	1591.0	1573.0	1579.8	1573.1	1569.4
20°	1567.9	1551.0	1557.8	1547.7	1546.3
22.5°	1542.6	1525.6	1532.5	1518.9	1518.6
25°	1501.6	1483.3	1491.5	1475.6	1474.2
27.5°	1452.8	1435.9	1442.7	1426.5	1424.9
30°	1419.4	1402.4	1409.3	1391.9	1389.1
32.5°	1381.3	1365.5	1371.2	1353.8	1352.2
35°	1322.7	1307.2	1311.2	1293.8	1292.4
37.5°	1256.1	1242.0	1244.3	1225.2	1223.8
40°	1208.8	1194.7	1195.8	1175.6	1174.2
42.5°	1156.8	1142.7	1141.6	1121.3	1119.9
45°	1070.3	1056.2	1051.5	1032.7	1029.9
47.5°	971.6	957.5	948.8	933.5	931.5
50°	900.1	886.0	878.5	865.4	861.1
52.5°	822.8	808.7	802.3	790.4	786.1
55°	701.0	689.7	685.2	673.6	670.7
57.5°	585.3	577.7	576.4	565.1	564.0
60°	515.0	510.7	510.6	500.5	500.5
62.5°	454.9	451.8	454.1	447.4	446.3
65°	376.5	373.7	377.9	375.0	375.0
67.5°	314.5	314.5	317.1	315.9	315.9
70°	279.8	279.8	281.3	281.3	281.3
72.5°	248.7	247.6	251.3	251.2	250.1
75°	203.4	203.4	203.4	204.8	204.8
77.5°	158.4	158.7	159.8	159.5	158.4
80°	128.4	129.8	129.8	128.4	128.4
82.5°	98.4	99.8	99.8	99.5	98.4
85°	51.9	54.7	57.7	57.7	57.7
87.5°	15.3	20.5	25.3	25.5	24.2
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



TEST NUMBER: P564518

CATALOG NUMBER: SQ4-PR1-150U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)