

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: P563842

Luminaire Tested: **SQ4-PP3-150U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563842  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

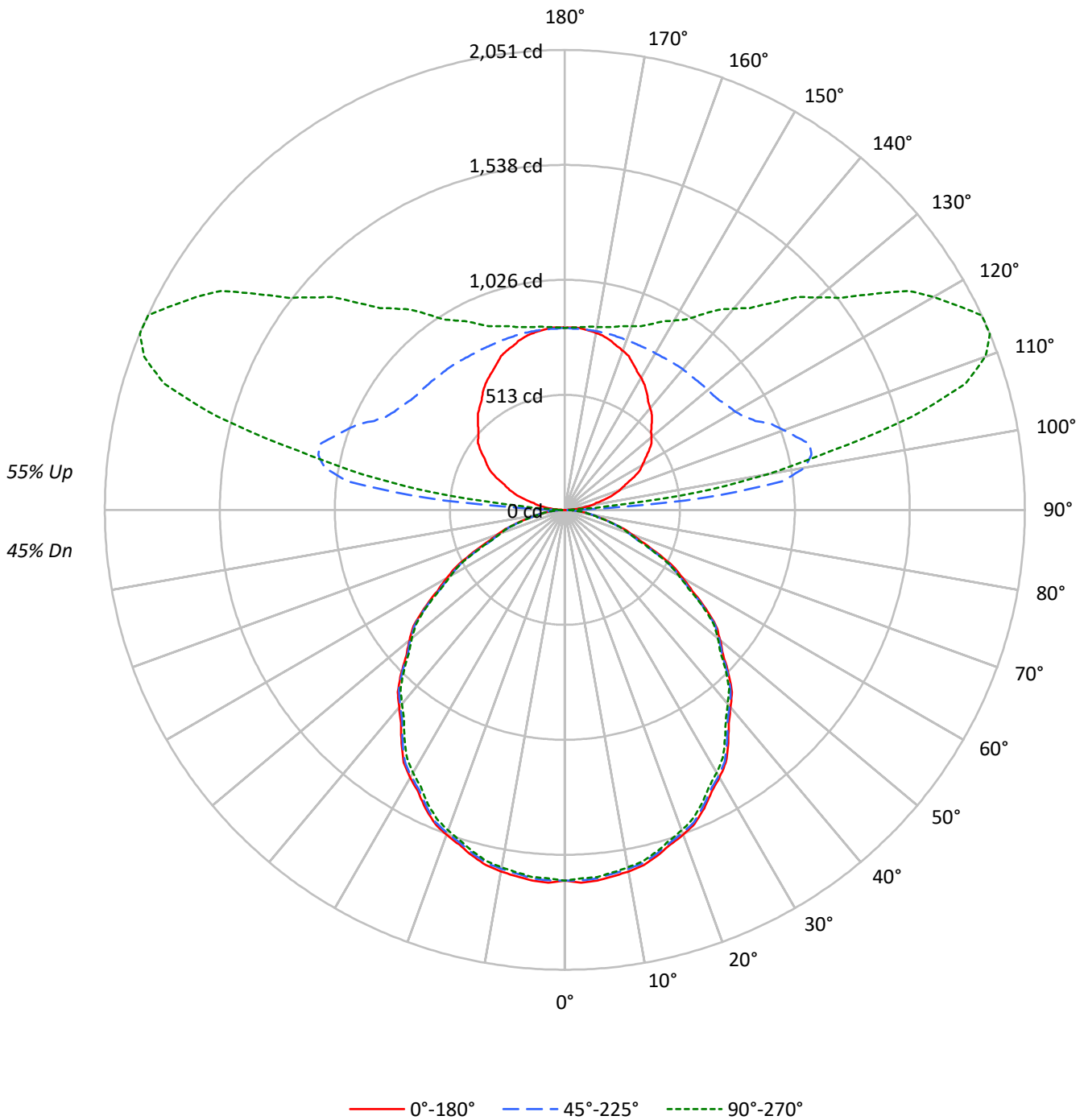
Lumens per Lamp: N/A  
Luminaire Lumens: 9468.8 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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



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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	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	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15258	15258	15258
5°	15370	15277	15223
10°	15345	15236	15169
15°	15244	15160	15077
20°	15142	15056	14943
25°	14963	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13843	13757	13599
45°	13465	13371	13238
50°	12983	12899	12775
55°	12310	12148	12054
60°	11206	10885	10832
65°	9872	9462	9429
70°	8524	8171	8171
75°	7336	7233	7129
80°	6471	6546	6392
85°	5060	5526	5526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	1.7
10°-20°	446.5	4.7
20°-30°	668.8	7.1
30°-40°	784.5	8.3
40°-50°	787.0	8.3
50°-60°	671.4	7.1
60°-70°	437.8	4.6
70°-80°	219.7	2.3
80°-90°	62.5	0.7
90°-100°	377.3	4.0
100°-110°	1020.1	10.8
110°-120°	1072.5	11.3
120°-130°	871.2	9.2
130°-140°	683.3	7.2
140°-150°	524.5	5.5
150°-160°	377.2	4.0
160°-170°	230.4	2.4
170°-180°	77.7	0.8
0°-30°	1271.8	13.4
0°-40°	2056.3	21.7
0°-60°	3514.6	37.1
0°-90°	4234.6	44.7
90°-120°	2469.9	26.1
90°-150°	4548.9	48.0
90°-180°	5234.0	55.3
0°-180°	9468.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1660	1644	1650	1644	1644	158
15°	1596	1580	1587	1581	1578	450
25°	1470	1453	1460	1446	1445	676
35°	1270	1257	1261	1246	1245	793
45°	1032	1025	1025	1015	1015	795
55°	765	762	755	751	749	680
65°	452	444	433	430	432	451
75°	206	206	203	201	200	223
85°	48	52	52	52	52	56
90°	2	5	11	12	11	6
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1653.8	1653.8	1653.8	1653.8	1653.8
2.5°	1664.3	1650.7	1653.8	1651.4	1644.6
5°	1659.6	1644.1	1649.5	1643.7	1643.7
7.5°	1648.3	1631.3	1636.7	1630.9	1630.7
10°	1637.9	1620.9	1626.3	1620.5	1619.1
12.5°	1622.8	1605.8	1612.4	1605.4	1605.1
15°	1595.9	1580.3	1587.2	1581.3	1578.5
17.5°	1565.4	1548.4	1556.7	1548.6	1547.5
20°	1542.2	1525.2	1533.5	1521.9	1521.9
22.5°	1514.4	1497.4	1506.9	1491.8	1491.8
25°	1469.8	1452.8	1459.6	1446.5	1445.1
27.5°	1416.7	1400.0	1407.1	1392.4	1392.1
30°	1378.4	1362.9	1371.2	1355.2	1353.8
32.5°	1336.7	1322.2	1328.3	1312.3	1310.9
35°	1269.7	1257.0	1261.0	1246.5	1245.1
37.5°	1199.3	1186.3	1190.9	1178.4	1177.8
40°	1149.4	1140.9	1142.2	1132.0	1129.1
42.5°	1103.0	1093.4	1094.6	1084.5	1083.9
45°	1032.0	1024.9	1024.8	1014.6	1014.6
47.5°	956.7	951.3	949.7	941.3	941.0
50°	904.5	900.2	898.7	891.4	890.0
52.5°	850.0	848.0	843.0	836.9	836.6
55°	765.3	762.5	755.2	750.8	749.4
57.5°	673.4	667.8	659.5	653.2	654.3
60°	607.3	601.7	589.9	587.0	587.0
62.5°	543.6	536.7	525.0	521.0	523.3
65°	452.2	443.7	433.4	430.5	431.9
67.5°	369.3	361.7	350.5	350.5	349.3
70°	316.0	311.7	302.9	302.9	302.9
72.5°	268.4	266.5	260.0	260.0	258.9
75°	205.8	205.8	202.9	201.4	200.0
77.5°	154.2	154.8	153.4	151.8	149.3
80°	121.8	124.6	123.2	121.7	120.3
82.5°	91.6	94.4	94.2	91.6	91.3
85°	47.8	52.1	52.2	52.2	52.2
87.5°	13.1	18.3	20.8	21.0	22.0
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)