

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: P564514

Luminaire Tested: **SQ4-PR1-150U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564514
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

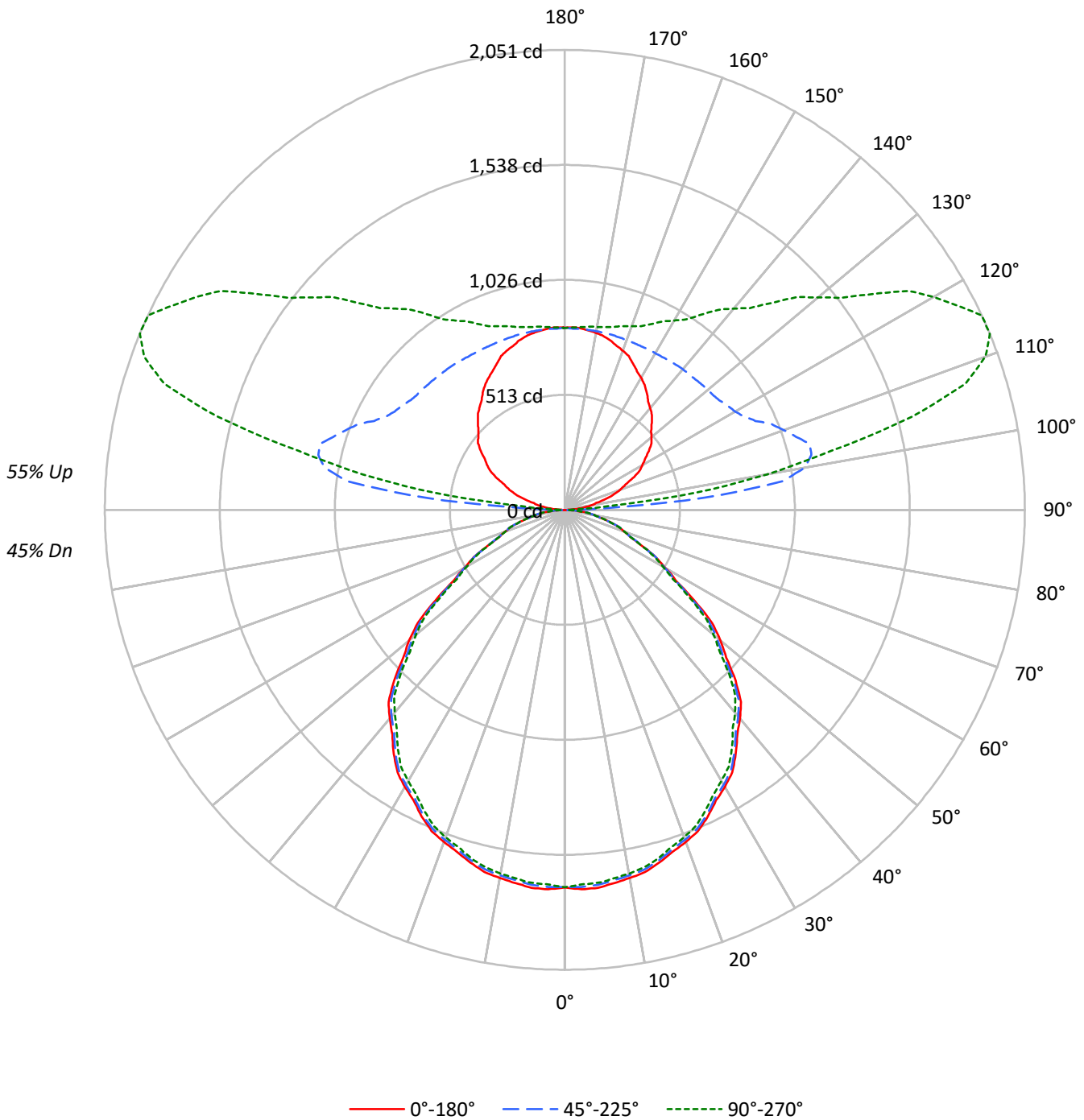
Lumens per Lamp: N/A
Luminaire Lumens: 9443.8 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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



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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	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°	15530	15530	15530
5°	15669	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15365	15261	15084
30°	15198	15091	14874
35°	14974	14844	14631
40°	14632	14476	14213
45°	14037	13790	13507
50°	12986	12673	12423
55°	11334	11078	10845
60°	9551	9470	9283
65°	8261	8294	8230
70°	7588	7626	7626
75°	7286	7286	7340
80°	6854	6934	6854
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.7
10°-20°	455.4	4.8
20°-30°	686.9	7.3
30°-40°	818.5	8.7
40°-50°	806.9	8.5
50°-60°	616.7	6.5
60°-70°	381.6	4.0
70°-80°	216.8	2.3
80°-90°	67.6	0.7
90°-100°	377.3	4.0
100°-110°	1020.1	10.8
110°-120°	1072.5	11.4
120°-130°	871.2	9.2
130°-140°	683.3	7.2
140°-150°	524.5	5.6
150°-160°	377.2	4.0
160°-170°	230.4	2.4
170°-180°	77.7	0.8
0°-30°	1301.5	13.8
0°-40°	2119.9	22.4
0°-60°	3543.6	37.5
0°-90°	4209.6	44.6
90°-120°	2469.9	26.2
90°-150°	4548.9	48.2
90°-180°	5234.0	55.4
0°-180°	9443.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1692	1674	1679	1673	1670	161
15°	1628	1611	1618	1612	1609	459
25°	1509	1491	1499	1483	1482	695
35°	1330	1314	1318	1300	1299	830
45°	1076	1062	1057	1038	1035	824
55°	705	693	689	677	674	631
65°	378	376	380	377	377	383
75°	204	204	204	206	206	216
85°	52	55	58	58	58	61
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°	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1693.7	1678.9	1683.2	1679.6	1671.6
5°	1691.9	1673.5	1678.9	1673.0	1670.2
7.5°	1678.9	1660.7	1666.1	1660.3	1658.6
10°	1667.3	1650.3	1655.7	1649.8	1647.0
12.5°	1654.5	1636.4	1642.9	1635.9	1633.1
15°	1628.1	1611.1	1618.0	1612.1	1609.3
17.5°	1599.1	1581.0	1587.8	1581.1	1577.4
20°	1575.9	1558.9	1565.8	1555.6	1554.2
22.5°	1550.4	1533.4	1540.3	1526.6	1526.4
25°	1509.3	1490.8	1499.1	1483.1	1481.7
27.5°	1460.3	1443.2	1450.1	1433.8	1432.1
30°	1426.6	1409.6	1416.5	1399.0	1396.2
32.5°	1388.3	1372.5	1378.2	1360.8	1359.1
35°	1329.5	1313.9	1317.9	1300.4	1299.0
37.5°	1262.5	1248.3	1250.6	1231.4	1230.0
40°	1214.9	1200.8	1201.9	1181.6	1180.1
42.5°	1162.7	1148.6	1147.4	1127.1	1125.6
45°	1075.8	1061.6	1056.9	1038.0	1035.2
47.5°	976.6	962.4	953.7	938.3	936.3
50°	904.7	890.5	882.9	869.8	865.5
52.5°	827.0	812.8	806.4	794.4	790.1
55°	704.6	693.3	688.7	677.0	674.2
57.5°	588.3	580.7	579.3	568.0	566.9
60°	517.6	513.3	513.2	503.1	503.1
62.5°	457.3	454.2	456.4	449.7	448.6
65°	378.4	375.6	379.9	377.0	377.0
67.5°	316.1	316.1	318.7	317.5	317.5
70°	281.3	281.3	282.7	282.7	282.7
72.5°	249.9	248.8	252.6	252.5	251.4
75°	204.4	204.4	204.4	205.9	205.9
77.5°	159.2	159.5	160.6	160.3	159.2
80°	129.0	130.5	130.5	129.0	129.0
82.5°	98.9	100.3	100.3	100.0	98.9
85°	52.2	55.0	58.0	58.0	58.0
87.5°	15.4	20.6	25.5	25.6	24.3
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)