

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: P564084

Luminaire Tested: **SQ4-PR1-075U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564084
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

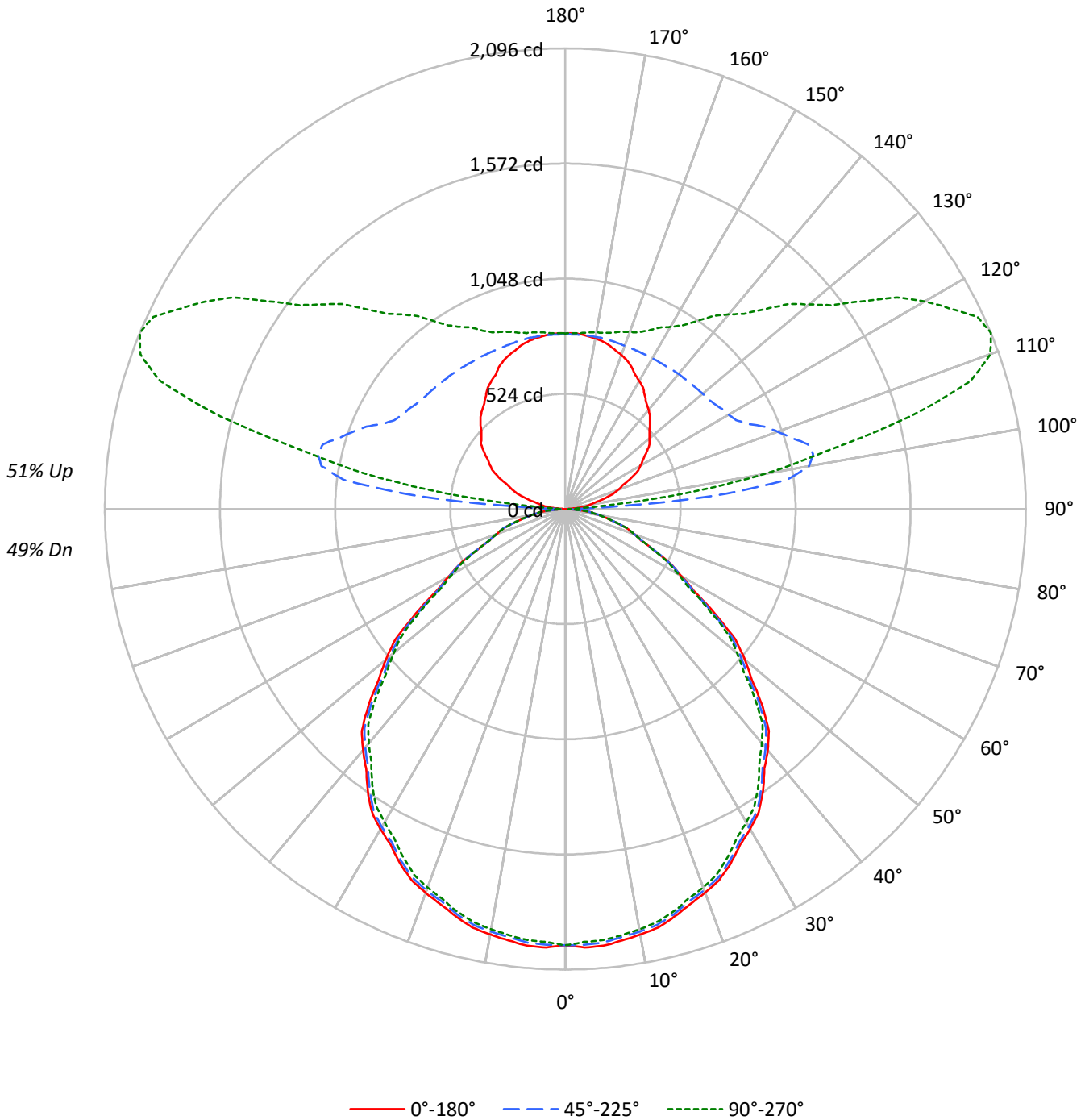
Lumens per Lamp: N/A
Luminaire Lumens: 10167.9 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9126	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5586	5475
65°	4872	4890	4853
70°	4475	4498	4498
75°	4297	4297	4328
80°	4043	4088	4043
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	1.8
10°-20°	537.2	5.3
20°-30°	810.2	8.0
30°-40°	965.4	9.5
40°-50°	951.8	9.4
50°-60°	727.4	7.2
60°-70°	450.1	4.4
70°-80°	255.7	2.5
80°-90°	79.8	0.8
90°-100°	376.7	3.7
100°-110°	1036.3	10.2
110°-120°	1069.6	10.5
120°-130°	857.0	8.4
130°-140°	673.1	6.6
140°-150°	515.8	5.1
150°-160°	370.9	3.6
160°-170°	226.8	2.2
170°-180°	76.4	0.8
0°-30°	1535.1	15.1
0°-40°	2500.5	24.6
0°-60°	4179.7	41.1
0°-90°	4965.3	48.8
90°-120°	2482.6	24.4
90°-150°	4528.5	44.5
90°-180°	5203.0	51.2
0°-180°	10167.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1996	1974	1980	1973	1970	189
15°	1920	1900	1908	1902	1898	542
25°	1780	1758	1768	1749	1748	819
35°	1568	1550	1554	1534	1532	979
45°	1269	1252	1247	1224	1221	972
55°	831	818	812	798	795	745
65°	446	443	448	445	445	452
75°	241	241	241	243	243	255
85°	62	65	68	68	68	72
90°	2	7	12	15	15	6
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1997.7	1980.3	1985.4	1981.1	1971.7
5°	1995.7	1973.9	1980.3	1973.4	1970.0
7.5°	1980.3	1958.9	1965.2	1958.3	1956.3
10°	1966.6	1946.5	1952.9	1946.0	1942.7
12.5°	1951.5	1930.1	1937.9	1929.6	1926.2
15°	1920.4	1900.4	1908.5	1901.5	1898.2
17.5°	1886.2	1864.8	1872.9	1864.9	1860.6
20°	1858.9	1838.8	1846.9	1834.9	1833.2
22.5°	1828.8	1808.7	1816.8	1800.7	1800.4
25°	1780.2	1758.5	1768.2	1749.4	1747.7
27.5°	1722.4	1702.3	1710.4	1691.2	1689.2
30°	1682.7	1662.7	1670.8	1650.2	1646.8
32.5°	1637.6	1618.9	1625.6	1605.0	1603.0
35°	1568.1	1549.8	1554.5	1533.9	1532.2
37.5°	1489.1	1472.4	1475.1	1452.5	1450.8
40°	1433.1	1416.3	1417.7	1393.7	1392.0
42.5°	1371.5	1354.8	1353.4	1329.4	1327.7
45°	1268.9	1252.2	1246.7	1224.3	1221.0
47.5°	1151.9	1135.2	1124.9	1106.7	1104.4
50°	1067.1	1050.4	1041.4	1025.9	1020.9
52.5°	975.4	958.7	951.1	937.0	932.0
55°	831.1	817.7	812.3	798.5	795.2
57.5°	694.0	684.9	683.4	670.0	668.6
60°	610.5	605.5	605.4	593.4	593.4
62.5°	539.4	535.7	538.3	530.4	529.1
65°	446.3	443.0	448.0	444.6	444.6
67.5°	372.8	372.8	375.9	374.5	374.5
70°	331.8	331.8	333.5	333.5	333.5
72.5°	294.8	293.5	297.9	297.9	296.5
75°	241.1	241.1	241.1	242.8	242.8
77.5°	187.8	188.1	189.5	189.1	187.8
80°	152.2	153.9	153.9	152.2	152.2
82.5°	116.6	118.3	118.3	118.0	116.6
85°	61.6	64.9	68.4	68.4	68.4
87.5°	18.1	24.5	29.7	30.4	29.1
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)