

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: P564495

Luminaire Tested: **SQ4-PR1-150U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564495
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-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

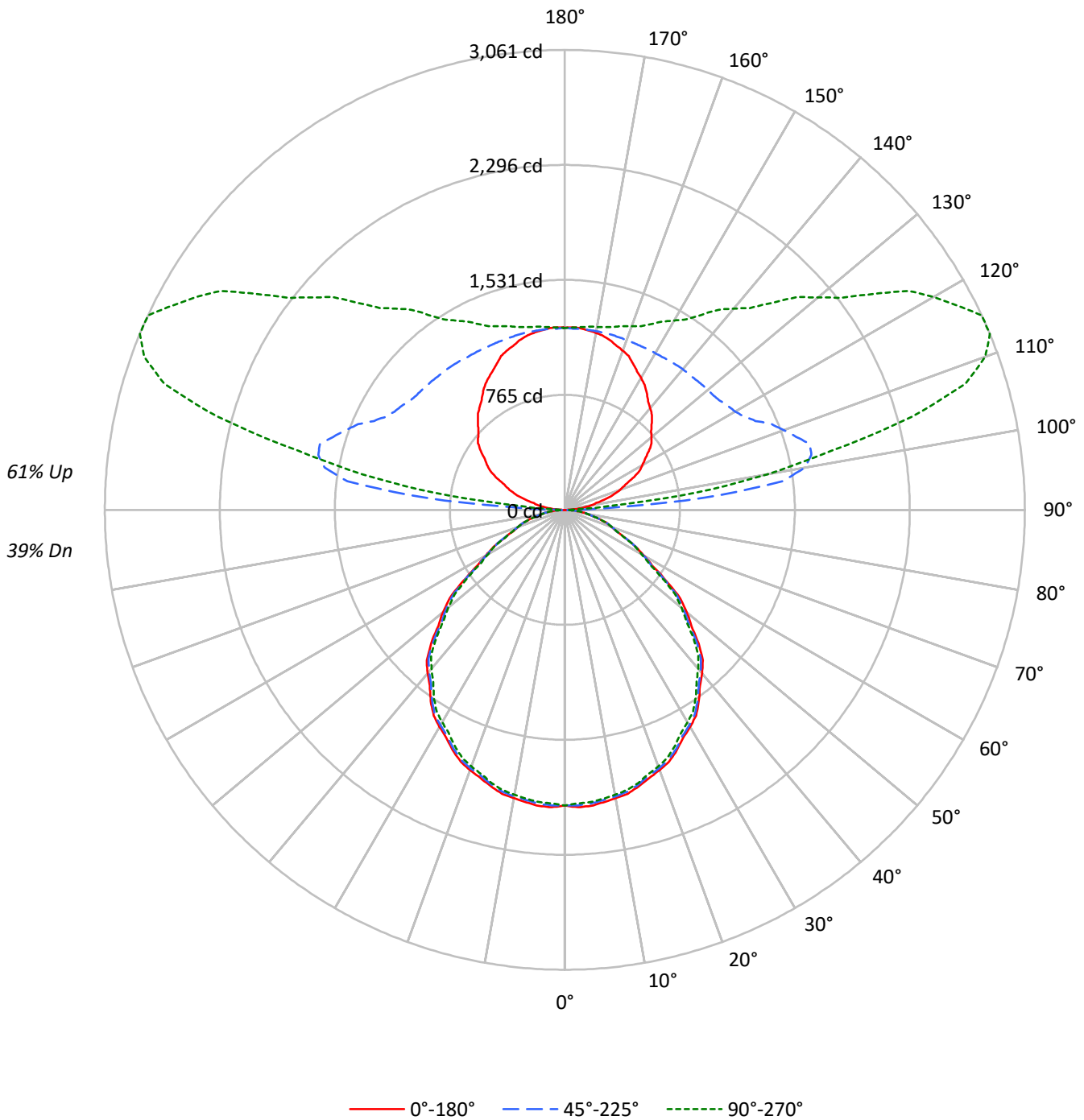
Lumens per Lamp: N/A
Luminaire Lumens: 12734.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12108	12108	12108
5°	12216	12123	12060
10°	12178	12094	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11850	11765	11597
35°	11675	11572	11407
40°	11408	11286	11081
45°	10944	10751	10530
50°	10124	9881	9686
55°	8836	8637	8454
60°	7446	7383	7237
65°	6440	6465	6415
70°	5915	5945	5945
75°	5682	5682	5723
80°	5345	5405	5345
85°	4305	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	1.5
10°-20°	532.6	4.2
20°-30°	803.3	6.3
30°-40°	957.1	7.5
40°-50°	943.7	7.4
50°-60°	721.2	5.7
60°-70°	446.3	3.5
70°-80°	253.5	2.0
80°-90°	79.6	0.6
90°-100°	563.1	4.4
100°-110°	1522.4	12.0
110°-120°	1600.6	12.6
120°-130°	1300.1	10.2
130°-140°	1019.8	8.0
140°-150°	782.7	6.1
150°-160°	562.9	4.4
160°-170°	343.9	2.7
170°-180°	115.9	0.9
0°-30°	1522.0	12.0
0°-40°	2479.2	19.5
0°-60°	4144.0	32.5
0°-90°	4923.5	38.7
90°-120°	3686.0	28.9
90°-150°	6788.7	53.3
90°-180°	7811.0	61.3
0°-180°	12734.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1979	1957	1963	1956	1953	188
15°	1904	1884	1892	1885	1882	537
25°	1765	1744	1753	1734	1733	812
35°	1555	1536	1541	1521	1519	970
45°	1258	1242	1236	1214	1211	964
55°	824	811	805	792	788	738
65°	442	439	444	441	441	448
75°	239	239	239	241	241	252
85°	61	64	68	68	68	71
90°	3	8	17	18	17	8
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	

TEST NUMBER: P564495

CATALOG NUMBER: SQ4-PR1-150U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.5	1968.5	1968.5	1968.5	1968.5
2.5°	1980.7	1963.4	1968.5	1964.2	1954.9
5°	1978.6	1957.1	1963.4	1956.5	1953.2
7.5°	1963.4	1942.2	1948.5	1941.6	1939.6
10°	1949.8	1929.9	1936.3	1929.4	1926.1
12.5°	1934.9	1913.7	1921.3	1913.1	1909.8
15°	1904.0	1884.1	1892.2	1885.3	1882.0
17.5°	1870.1	1848.9	1856.9	1849.0	1844.7
20°	1843.0	1823.1	1831.1	1819.2	1817.6
22.5°	1813.2	1793.3	1801.3	1785.3	1785.0
25°	1765.0	1743.5	1753.1	1734.5	1732.8
27.5°	1707.7	1687.8	1695.8	1676.8	1674.8
30°	1668.4	1648.5	1656.5	1636.1	1632.8
32.5°	1623.6	1605.0	1611.7	1591.3	1589.4
35°	1554.8	1536.5	1541.2	1520.8	1519.2
37.5°	1476.4	1459.9	1462.5	1440.1	1438.5
40°	1420.8	1404.2	1405.6	1381.8	1380.1
42.5°	1359.8	1343.2	1341.8	1318.0	1316.4
45°	1258.1	1241.5	1236.0	1213.9	1210.6
47.5°	1142.1	1125.5	1115.3	1097.3	1094.9
50°	1058.0	1041.4	1032.6	1017.2	1012.2
52.5°	967.1	950.5	943.0	929.0	924.0
55°	824.0	810.7	805.4	791.7	788.4
57.5°	688.0	679.1	677.5	664.3	662.9
60°	605.3	600.3	600.2	588.3	588.3
62.5°	534.8	531.1	533.7	525.9	524.6
65°	442.5	439.2	444.2	440.8	440.8
67.5°	369.6	369.6	372.7	371.3	371.3
70°	328.9	328.9	330.6	330.6	330.6
72.5°	292.3	291.0	295.4	295.3	294.0
75°	239.1	239.1	239.1	240.8	240.8
77.5°	186.2	186.5	187.9	187.5	186.2
80°	150.9	152.6	152.6	150.9	150.9
82.5°	115.6	117.3	117.3	117.0	115.6
85°	61.0	64.4	67.8	67.8	67.8
87.5°	18.2	24.5	30.5	30.7	29.2
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



TEST NUMBER: P564495

CATALOG NUMBER: SQ4-PR1-150U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)