

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: P564379

Luminaire Tested: **SQ4-PR1-125U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564379
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

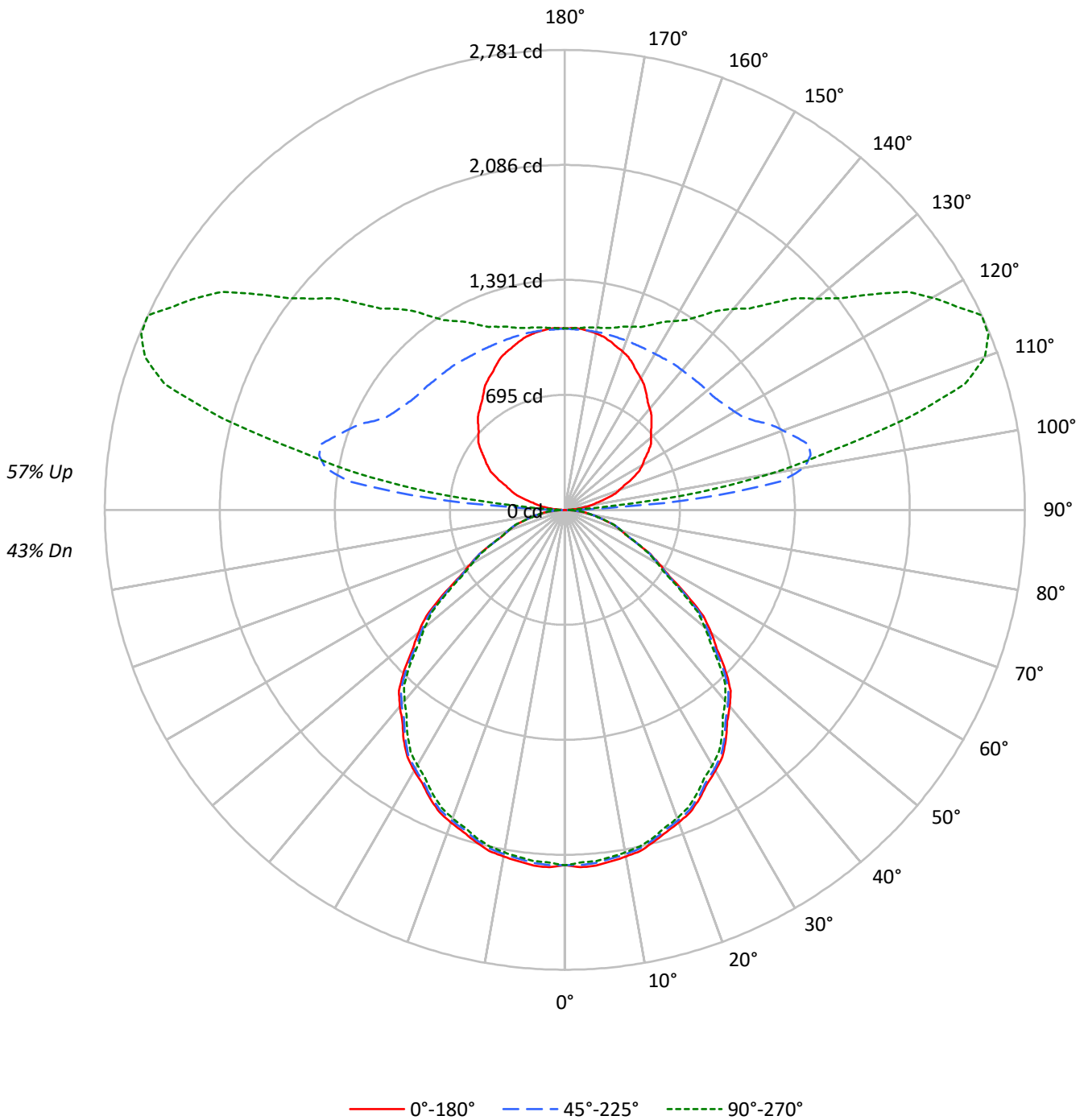
Lumens per Lamp: N/A
Luminaire Lumens: 12453.8 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 102.8
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	96	96	96	96	80	80	80	64	64	64	50	50	50	43				
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37				
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31				
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27				
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23				
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18				
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16				
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14				
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13				
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13220	13220	13220
5°	13339	13236	13167
10°	13296	13204	13135
15°	13238	13156	13085
20°	13172	13087	12990
25°	13079	12991	12840
30°	12938	12846	12661
35°	12747	12636	12455
40°	12456	12323	12099
45°	11948	11740	11498
50°	11054	10788	10576
55°	9648	9429	9231
60°	8130	8061	7903
65°	7033	7059	7005
70°	6458	6492	6492
75°	6203	6203	6248
80°	5837	5901	5837
85°	4700	5222	5222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.6
10°-20°	581.5	4.7
20°-30°	877.1	7.0
30°-40°	1045.1	8.4
40°-50°	1030.3	8.3
50°-60°	787.4	6.3
60°-70°	487.3	3.9
70°-80°	276.8	2.2
80°-90°	86.8	0.7
90°-100°	512.9	4.1
100°-110°	1381.7	11.1
110°-120°	1450.0	11.6
120°-130°	1176.7	9.4
130°-140°	922.8	7.4
140°-150°	708.5	5.7
150°-160°	509.4	4.1
160°-170°	311.2	2.5
170°-180°	105.0	0.8
0°-30°	1661.9	13.3
0°-40°	2706.9	21.7
0°-60°	4524.7	36.3
0°-90°	5375.6	43.2
90°-120°	3344.6	26.9
90°-150°	6152.6	49.4
90°-180°	7078.0	56.8
0°-180°	12453.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2149	2149	2149	2149	2149	
5°	2160	2137	2144	2136	2133	205
15°	2079	2057	2066	2058	2055	587
25°	1927	1904	1914	1894	1892	887
35°	1698	1678	1683	1660	1659	1059
45°	1374	1356	1350	1325	1322	1052
55°	900	885	879	864	861	806
65°	483	480	485	481	481	489
75°	261	261	261	263	263	276
85°	67	70	74	74	74	78
90°	3	8	17	18	18	8
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2149.3	2149.3	2149.3	2149.3	2149.3
2.5°	2162.6	2143.8	2149.3	2144.6	2134.5
5°	2160.4	2136.9	2143.7	2136.3	2132.6
7.5°	2143.7	2120.6	2127.4	2120.0	2117.8
10°	2128.9	2107.2	2114.1	2106.6	2103.0
12.5°	2112.6	2089.5	2097.8	2088.9	2085.2
15°	2078.9	2057.2	2066.0	2058.5	2054.9
17.5°	2041.9	2018.7	2027.5	2018.9	2014.2
20°	2012.3	1990.6	1999.3	1986.3	1984.5
22.5°	1979.7	1958.0	1966.8	1949.3	1949.0
25°	1927.1	1903.6	1914.2	1893.8	1892.0
27.5°	1864.6	1842.8	1851.6	1830.8	1828.7
30°	1821.6	1799.9	1808.7	1786.4	1782.7
32.5°	1772.7	1752.5	1759.8	1737.5	1735.4
35°	1697.6	1677.7	1682.8	1660.5	1658.7
37.5°	1612.1	1594.0	1596.9	1572.4	1570.6
40°	1551.3	1533.2	1534.7	1508.7	1506.9
42.5°	1484.7	1466.6	1465.1	1439.1	1437.3
45°	1373.6	1355.5	1349.6	1325.4	1321.8
47.5°	1247.0	1228.9	1217.7	1198.1	1195.5
50°	1155.2	1137.1	1127.4	1110.6	1105.2
52.5°	1055.9	1037.8	1029.7	1014.4	1008.9
55°	899.7	885.2	879.3	864.4	860.8
57.5°	751.2	741.5	739.8	725.3	723.8
60°	660.9	655.5	655.3	642.4	642.4
62.5°	583.9	579.9	582.8	574.2	572.8
65°	483.2	479.6	485.0	481.3	481.3
67.5°	403.6	403.6	406.9	405.4	405.4
70°	359.1	359.1	361.0	361.0	361.0
72.5°	319.2	317.7	322.5	322.5	321.0
75°	261.0	261.0	261.0	262.9	262.9
77.5°	203.3	203.6	205.1	204.7	203.3
80°	164.8	166.6	166.6	164.8	164.8
82.5°	126.3	128.1	128.1	127.7	126.3
85°	66.6	70.3	74.0	74.0	74.0
87.5°	19.8	26.7	33.0	33.2	31.8
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)