

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: P564072

Luminaire Tested: **SQ4-PR1-075U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564072
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11702.1 lumens
Efficiency: N/A
Efficacy: 128.6 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

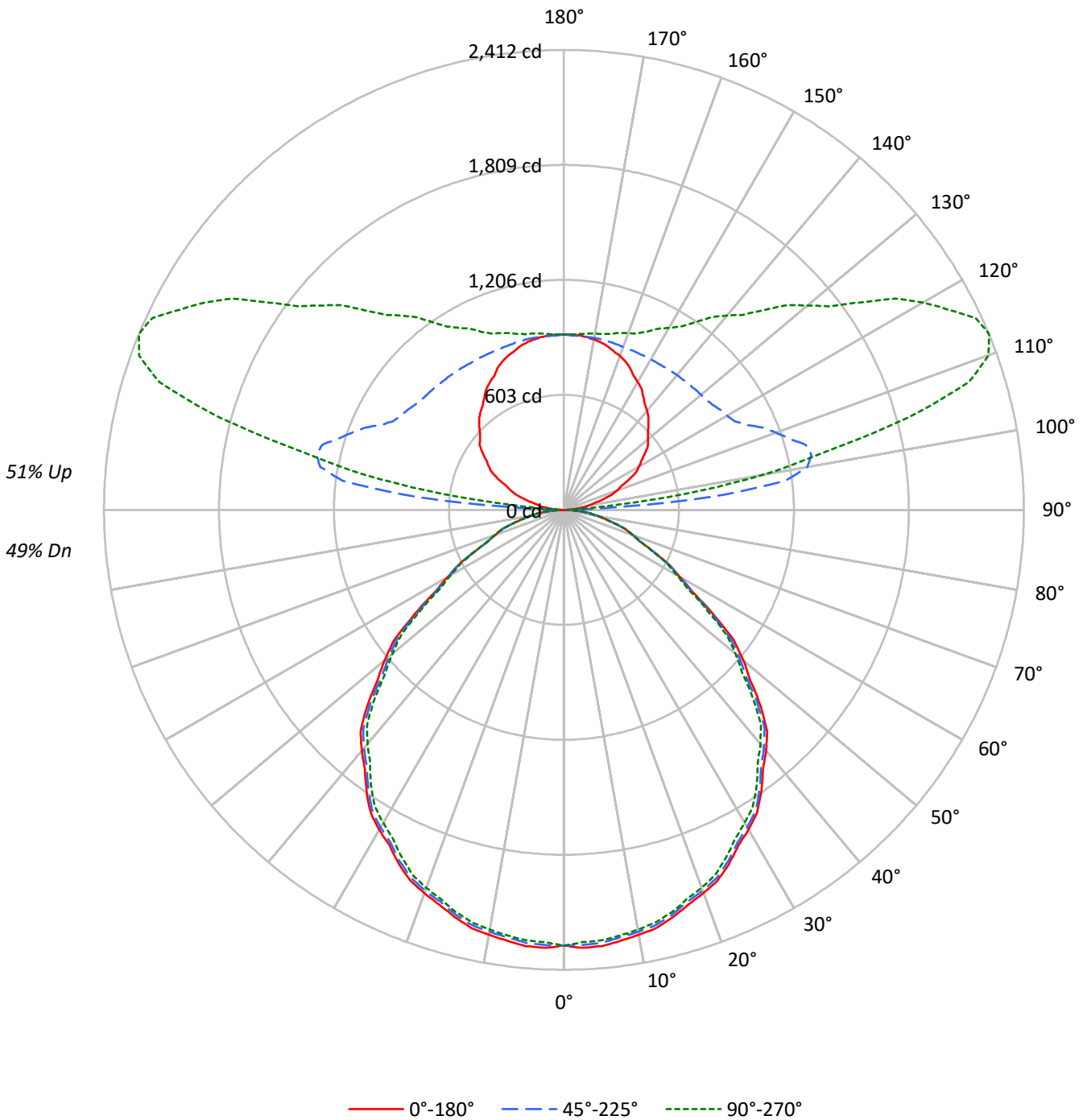
Input Watts (W): 91
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10164	10075	9931
40°	9932	9825	9647
45°	9527	9361	9167
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5628	5585
70°	5150	5177	5177
75°	4946	4946	4982
80°	4654	4705	4654
85°	3753	4166	4166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	1.8
10°-20°	618.2	5.3
20°-30°	932.5	8.0
30°-40°	1111.0	9.5
40°-50°	1095.4	9.4
50°-60°	837.2	7.2
60°-70°	518.1	4.4
70°-80°	294.3	2.5
80°-90°	91.9	0.8
90°-100°	433.5	3.7
100°-110°	1192.6	10.2
110°-120°	1231.0	10.5
120°-130°	986.3	8.4
130°-140°	774.7	6.6
140°-150°	593.7	5.1
150°-160°	426.8	3.6
160°-170°	261.0	2.2
170°-180°	88.0	0.8
0°-30°	1766.8	15.1
0°-40°	2877.8	24.6
0°-60°	4810.4	41.1
0°-90°	5714.6	48.8
90°-120°	2857.1	24.4
90°-150°	5211.7	44.5
90°-180°	5988.0	51.2
0°-180°	11702.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2297	2272	2279	2271	2267	218
15°	2210	2187	2196	2188	2185	624
25°	2049	2024	2035	2013	2011	943
35°	1805	1784	1789	1765	1763	1126
45°	1460	1441	1435	1409	1405	1119
55°	956	941	935	919	915	857
65°	514	510	516	512	512	520
75°	278	278	278	280	280	293
85°	71	75	79	79	79	82
90°	2	8	14	18	18	7
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2285.0	2285.0	2285.0	2285.0	2285.0
2.5°	2299.2	2279.1	2285.0	2280.0	2269.2
5°	2296.8	2271.8	2279.1	2271.1	2267.3
7.5°	2279.1	2254.5	2261.8	2253.8	2251.5
10°	2263.3	2240.2	2247.6	2239.6	2235.8
12.5°	2246.0	2221.4	2230.3	2220.7	2216.9
15°	2210.2	2187.1	2196.4	2188.5	2184.6
17.5°	2170.8	2146.2	2155.5	2146.3	2141.3
20°	2139.3	2116.3	2125.6	2111.7	2109.8
22.5°	2104.7	2081.6	2090.9	2072.4	2072.0
25°	2048.8	2023.8	2035.0	2013.3	2011.4
27.5°	1982.3	1959.2	1968.5	1946.4	1944.1
30°	1936.6	1913.5	1922.9	1899.1	1895.3
32.5°	1884.7	1863.1	1870.9	1847.2	1844.9
35°	1804.8	1783.6	1789.0	1765.4	1763.4
37.5°	1713.8	1694.6	1697.7	1671.7	1669.8
40°	1649.3	1630.0	1631.6	1604.0	1602.0
42.5°	1578.4	1559.2	1557.6	1530.0	1528.0
45°	1460.3	1441.1	1434.8	1409.1	1405.2
47.5°	1325.7	1306.5	1294.6	1273.7	1271.0
50°	1228.1	1208.9	1198.6	1180.7	1175.0
52.5°	1122.6	1103.4	1094.7	1078.4	1072.6
55°	956.5	941.1	934.9	919.0	915.2
57.5°	798.7	788.3	786.5	771.1	769.5
60°	702.6	696.8	696.7	682.9	682.9
62.5°	620.7	616.5	619.6	610.5	608.9
65°	513.7	509.8	515.6	511.7	511.7
67.5°	429.1	429.1	432.6	431.0	431.0
70°	381.8	381.8	383.8	383.8	383.8
72.5°	339.3	337.8	342.8	342.8	341.3
75°	277.5	277.5	277.5	279.5	279.5
77.5°	216.1	216.5	218.1	217.6	216.1
80°	175.2	177.1	177.1	175.2	175.2
82.5°	134.2	136.2	136.2	135.8	134.2
85°	70.9	74.7	78.7	78.7	78.7
87.5°	20.9	28.2	34.2	35.0	33.4
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)