

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: P563615

Luminaire Tested: **SQ4-PP3-100U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563615
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

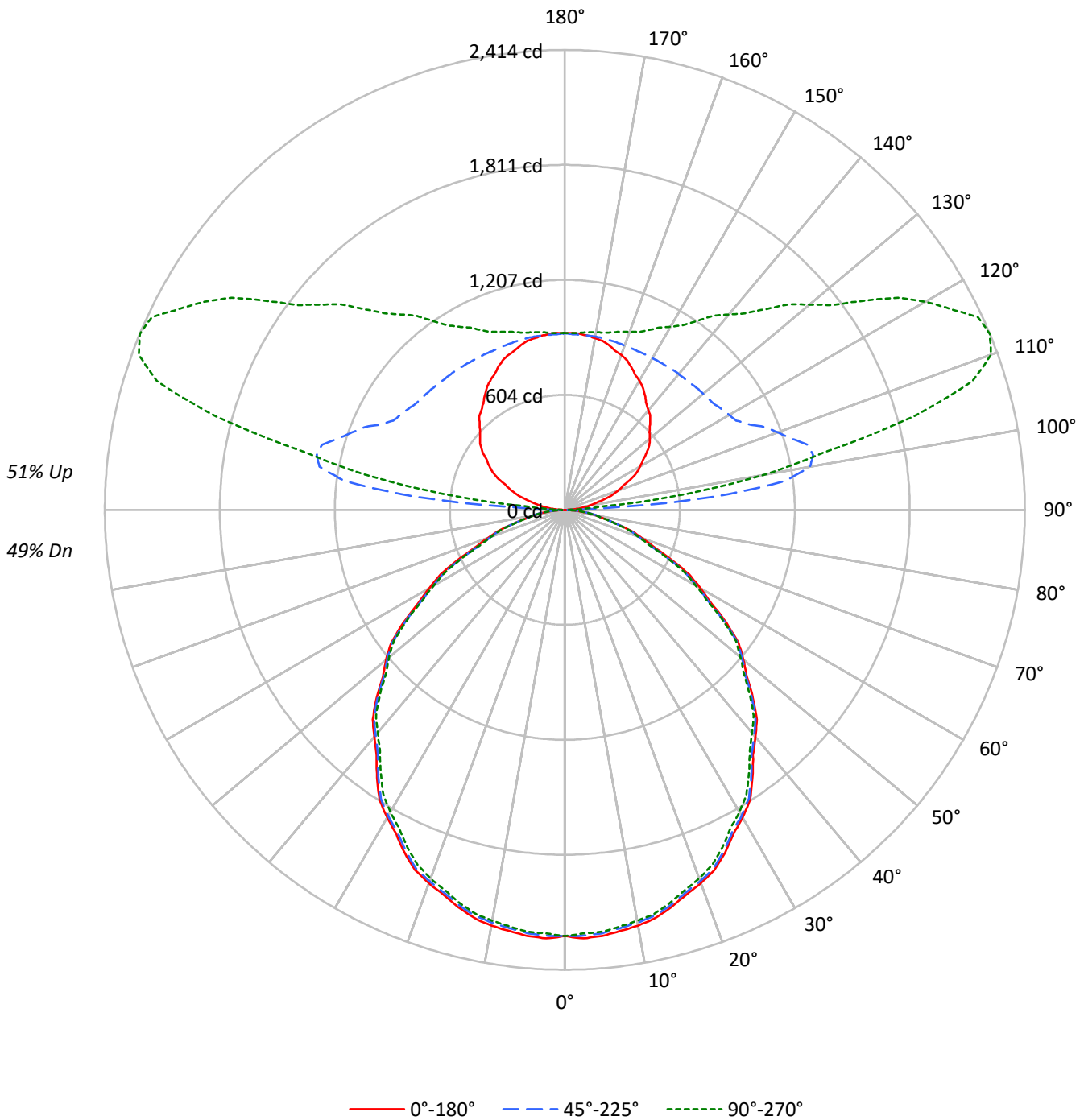
Lumens per Lamp: N/A
Luminaire Lumens: 11752.7 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13679
15°	13747	13672	13597
20°	13656	13579	13477
25°	13494	13401	13267
30°	13244	13174	13007
35°	12898	12809	12647
40°	12485	12406	12265
45°	12144	12059	11940
50°	11709	11633	11520
55°	11102	10955	10871
60°	10107	9818	9769
65°	8904	8533	8504
70°	7688	7370	7370
75°	6616	6523	6431
80°	5834	5905	5763
85°	4566	4982	4982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.8
10°-20°	604.1	5.1
20°-30°	904.8	7.7
30°-40°	1061.3	9.0
40°-50°	1064.6	9.1
50°-60°	908.2	7.7
60°-70°	592.3	5.0
70°-80°	297.2	2.5
80°-90°	84.2	0.7
90°-100°	434.2	3.7
100°-110°	1198.7	10.2
110°-120°	1236.3	10.5
120°-130°	993.5	8.5
130°-140°	780.8	6.6
140°-150°	598.8	5.1
150°-160°	430.4	3.7
160°-170°	263.2	2.2
170°-180°	88.7	0.8
0°-30°	1720.4	14.6
0°-40°	2781.7	23.7
0°-60°	4754.6	40.5
0°-90°	5728.2	48.7
90°-120°	2869.2	24.4
90°-150°	5242.2	44.6
90°-180°	6024.0	51.3
0°-180°	11752.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2237	2237	2237	2237	2237	
5°	2245	2224	2231	2224	2224	213
15°	2159	2138	2147	2139	2135	609
25°	1988	1965	1975	1957	1955	914
35°	1718	1700	1706	1686	1684	1073
45°	1396	1386	1386	1373	1373	1075
55°	1035	1032	1022	1016	1014	920
65°	612	600	586	582	584	611
75°	278	278	274	272	271	302
85°	65	70	71	71	71	76
90°	3	6	12	13	15	7
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2251.4	2233.0	2237.3	2234.0	2224.8
5°	2245.1	2224.1	2231.4	2223.6	2223.6
7.5°	2229.8	2206.8	2214.2	2206.3	2205.9
10°	2215.7	2192.7	2200.0	2192.2	2190.2
12.5°	2195.3	2172.3	2181.2	2171.8	2171.4
15°	2158.9	2137.8	2147.1	2139.2	2135.3
17.5°	2117.7	2094.7	2105.9	2094.9	2093.4
20°	2086.3	2063.3	2074.6	2058.9	2058.9
22.5°	2048.7	2025.7	2038.5	2018.1	2018.1
25°	1988.3	1965.3	1974.6	1956.9	1954.9
27.5°	1916.5	1893.9	1903.6	1883.6	1883.2
30°	1864.7	1843.7	1854.9	1833.3	1831.4
32.5°	1808.3	1788.7	1796.9	1775.3	1773.4
35°	1717.7	1700.4	1705.9	1686.3	1684.3
37.5°	1622.4	1604.7	1611.0	1594.1	1593.4
40°	1554.9	1543.4	1545.1	1531.3	1527.5
42.5°	1492.2	1479.2	1480.8	1467.1	1466.3
45°	1396.1	1386.5	1386.3	1372.6	1372.6
47.5°	1294.1	1286.9	1284.7	1273.4	1273.0
50°	1223.6	1217.8	1215.7	1205.9	1203.9
52.5°	1149.8	1147.1	1140.4	1132.2	1131.8
55°	1035.3	1031.5	1021.6	1015.7	1013.7
57.5°	911.0	903.3	892.2	883.6	885.1
60°	821.6	813.9	798.1	794.1	794.1
62.5°	735.3	726.1	710.2	704.8	707.9
65°	611.8	600.3	586.3	582.4	584.3
67.5°	499.6	489.3	474.1	474.1	472.6
70°	427.5	421.7	409.8	409.8	409.8
72.5°	363.1	360.5	351.8	351.7	350.2
75°	278.4	278.4	274.5	272.5	270.6
77.5°	208.6	209.4	207.5	205.4	202.0
80°	164.7	168.5	166.7	164.7	162.7
82.5°	123.9	127.8	127.5	123.9	123.5
85°	64.7	70.5	70.6	70.6	70.6
87.5°	17.8	24.6	27.5	27.8	29.6
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)