

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: P563743

Luminaire Tested: **SQ4-PP3-125U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563743
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

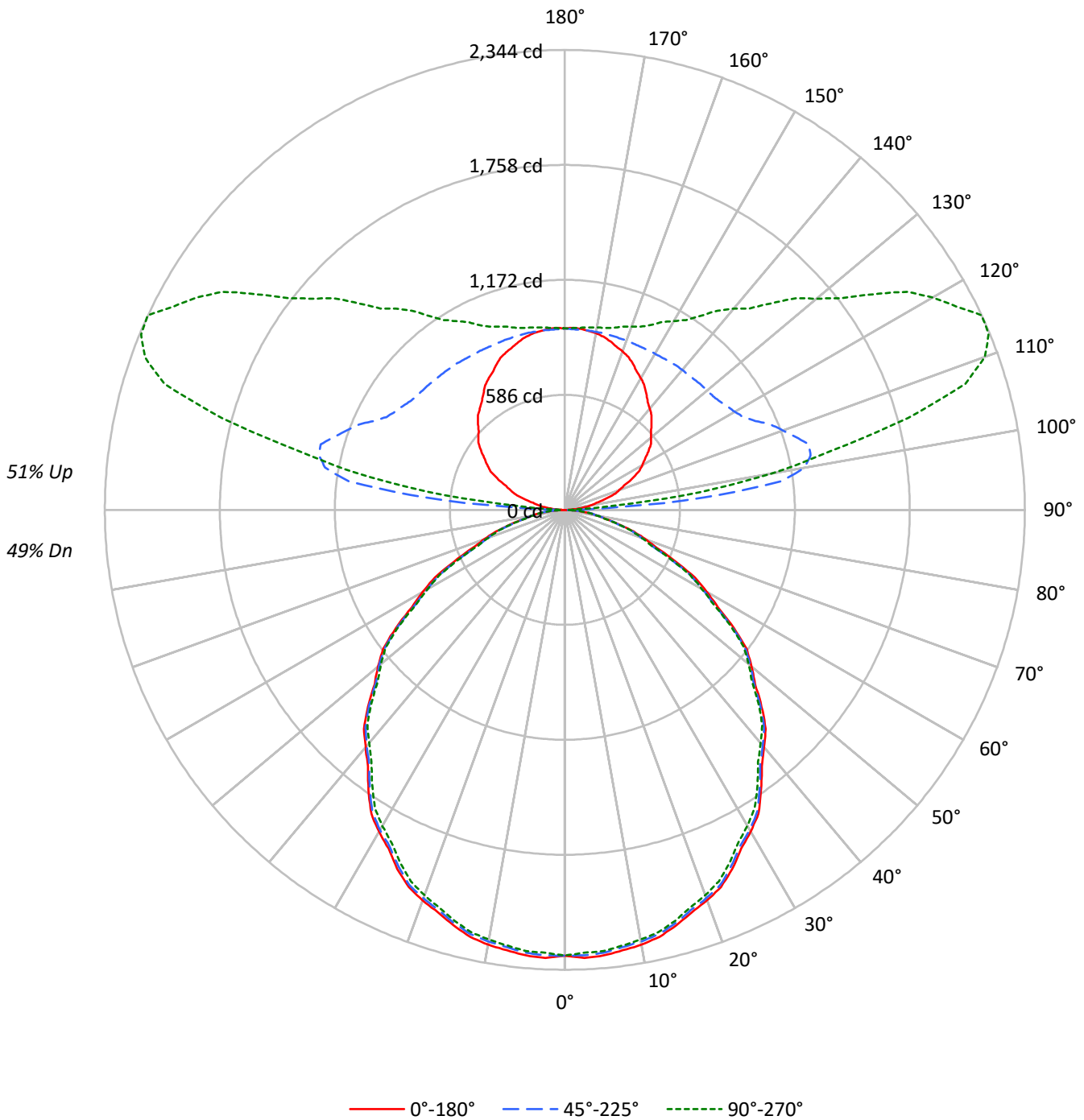
Lumens per Lamp: N/A
Luminaire Lumens: 11784.4 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	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	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	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	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13975	13975	13975
5°	14077	13991	13942
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13790	13685
25°	13703	13608	13473
30°	13449	13379	13209
35°	13097	13007	12843
40°	12678	12599	12454
45°	12332	12246	12124
50°	11889	11813	11699
55°	11275	11125	11039
60°	10263	9969	9920
65°	9042	8665	8636
70°	7807	7485	7485
75°	6721	6626	6531
80°	5926	5997	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	1.8
10°-20°	613.4	5.2
20°-30°	918.8	7.8
30°-40°	1077.7	9.1
40°-50°	1081.1	9.2
50°-60°	922.3	7.8
60°-70°	601.5	5.1
70°-80°	301.8	2.6
80°-90°	85.7	0.7
90°-100°	432.4	3.7
100°-110°	1164.8	9.9
110°-120°	1222.5	10.4
120°-130°	992.0	8.4
130°-140°	778.0	6.6
140°-150°	597.3	5.1
150°-160°	429.5	3.6
160°-170°	262.4	2.2
170°-180°	88.5	0.8
0°-30°	1747.1	14.8
0°-40°	2824.8	24.0
0°-60°	4828.2	41.0
0°-90°	5817.1	49.4
90°-120°	2819.7	23.9
90°-150°	5187.0	44.0
90°-180°	5967.0	50.6
0°-180°	11784.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2280	2258	2266	2258	2258	217
15°	2192	2171	2180	2172	2168	618
25°	2019	1996	2005	1987	1985	928
35°	1744	1727	1732	1712	1710	1090
45°	1418	1408	1408	1394	1394	1092
55°	1051	1048	1037	1031	1029	934
65°	621	610	595	591	593	620
75°	283	283	279	277	275	307
85°	66	72	72	72	72	77
90°	2	7	14	15	15	7
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	



TEST NUMBER: P563743

CATALOG NUMBER: SQ4-PP3-125U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2272.0	2272.0	2272.0	2272.0	2272.0
2.5°	2286.3	2267.6	2272.0	2268.6	2259.2
5°	2279.9	2258.5	2266.0	2258.0	2258.0
7.5°	2264.4	2241.0	2248.5	2240.5	2240.1
10°	2250.1	2226.7	2234.1	2226.1	2224.2
12.5°	2229.3	2206.0	2215.0	2205.4	2205.1
15°	2192.3	2170.9	2180.4	2172.3	2168.4
17.5°	2150.5	2127.1	2138.5	2127.4	2125.8
20°	2118.6	2095.3	2106.7	2090.8	2090.8
22.5°	2080.4	2057.0	2070.0	2049.3	2049.3
25°	2019.1	1995.7	2005.1	1987.2	1985.2
27.5°	1946.2	1923.2	1933.1	1912.7	1912.3
30°	1893.6	1872.2	1883.7	1861.7	1859.8
32.5°	1836.3	1816.4	1824.7	1802.8	1800.8
35°	1744.3	1726.8	1732.3	1712.4	1710.4
37.5°	1647.5	1629.6	1636.0	1618.8	1618.0
40°	1579.0	1567.3	1569.1	1555.0	1551.1
42.5°	1515.3	1502.1	1503.8	1489.8	1489.0
45°	1417.7	1408.0	1407.8	1393.8	1393.8
47.5°	1314.2	1306.8	1304.6	1293.1	1292.7
50°	1242.5	1236.7	1234.5	1224.5	1222.6
52.5°	1167.6	1164.9	1158.1	1149.7	1149.3
55°	1051.4	1047.5	1037.4	1031.4	1029.4
57.5°	925.1	917.3	906.0	897.3	898.8
60°	834.3	826.5	810.4	806.4	806.4
62.5°	746.7	737.4	721.2	715.7	718.8
65°	621.3	609.6	595.4	591.4	593.4
67.5°	507.4	496.8	481.5	481.4	479.9
70°	434.1	428.2	416.2	416.2	416.2
72.5°	368.8	366.0	357.2	357.2	355.6
75°	282.8	282.8	278.8	276.7	274.8
77.5°	211.9	212.6	210.7	208.6	205.1
80°	167.3	171.2	169.3	167.2	165.3
82.5°	125.8	129.7	129.4	125.8	125.4
85°	65.7	71.6	71.7	71.7	71.7
87.5°	18.0	25.1	28.3	28.6	30.1
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



TEST NUMBER: P563743

CATALOG NUMBER: SQ4-PP3-125U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)