

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: P520281

Luminaire Tested: **SQ4-F-125U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520281
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

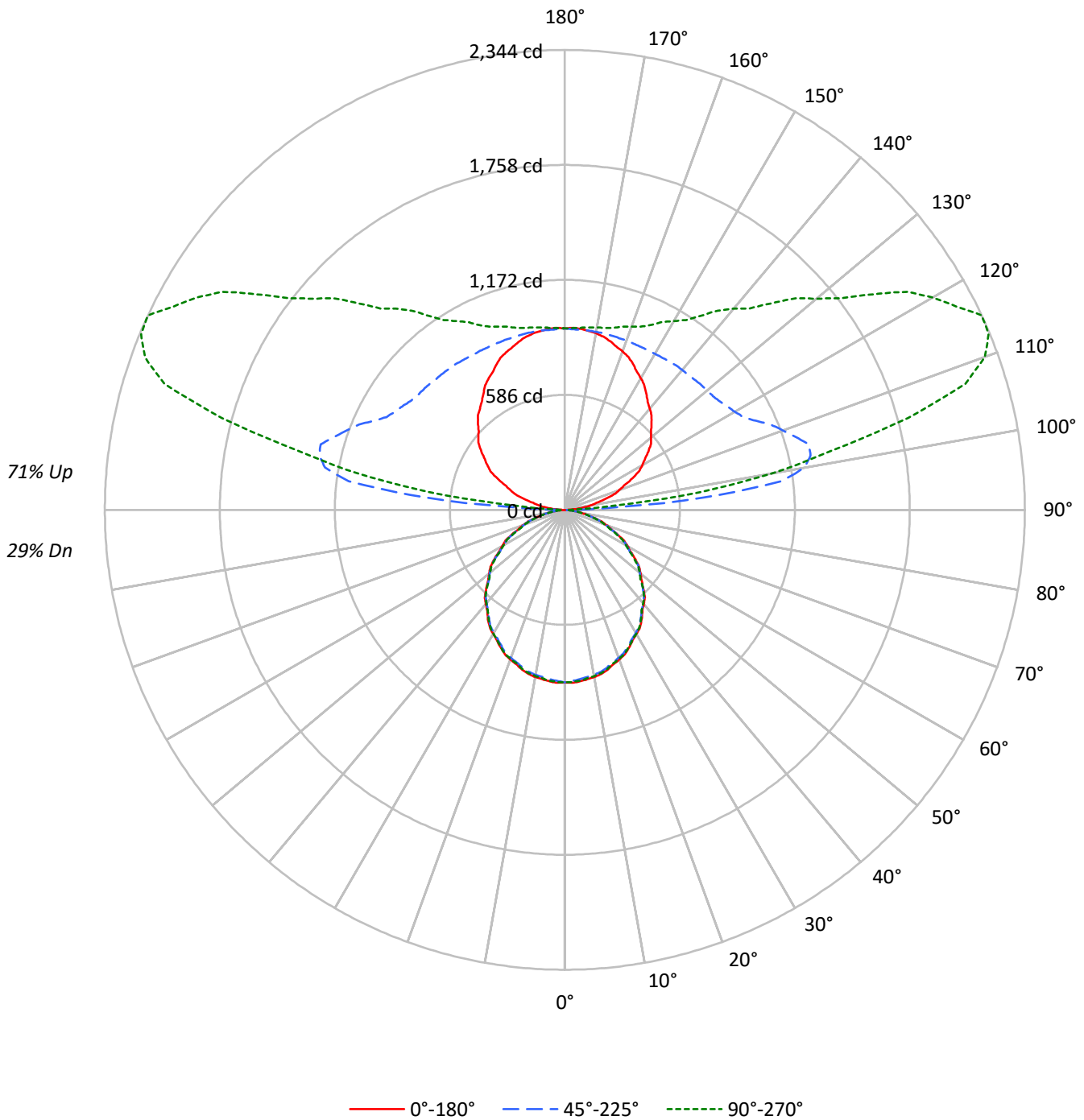
Lumens per Lamp: N/A
Luminaire Lumens: 8369.2 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.6
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29				
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24				
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20				
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17				
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	15				
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13				
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11				
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10				
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9				
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8				
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5408	5408	5408
5°	5421	5356	5399
10°	5403	5337	5373
15°	5366	5299	5344
20°	5316	5254	5293
25°	5256	5192	5240
30°	5183	5141	5175
35°	5125	5065	5090
40°	5027	4980	4989
45°	4924	4884	4884
50°	4821	4775	4753
55°	4708	4645	4620
60°	4532	4459	4431
65°	4317	4231	4178
70°	4021	3937	3852
75°	3610	3496	3413
80°	2919	2880	2795
85°	1750	1990	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.0
10°-20°	236.2	2.8
20°-30°	354.8	4.2
30°-40°	423.5	5.1
40°-50°	434.0	5.2
50°-60°	387.1	4.6
60°-70°	288.3	3.4
70°-80°	156.5	1.9
80°-90°	38.4	0.5
90°-100°	432.4	5.2
100°-110°	1164.8	13.9
110°-120°	1222.5	14.6
120°-130°	992.0	11.9
130°-140°	778.0	9.3
140°-150°	597.3	7.1
150°-160°	429.5	5.1
160°-170°	262.4	3.1
170°-180°	88.5	1.1
0°-30°	674.0	8.1
0°-40°	1097.5	13.1
0°-60°	1918.6	22.9
0°-90°	2401.8	28.7
90°-120°	2819.7	33.7
90°-150°	5187.0	62.0
90°-180°	5967.0	71.3
0°-180°	8369.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	878	877	867	876	874	83
15°	843	840	832	839	839	237
25°	774	772	765	770	772	357
35°	683	680	674	674	678	426
45°	566	567	562	560	562	437
55°	439	439	433	430	431	391
65°	297	295	291	287	287	294
75°	152	151	147	145	144	160
85°	25	27	28	29	29	35
90°	2	7	14	15	15	5
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	932	88
180°	924	924	924	924	924	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.2	879.2	879.2	879.2	879.2
2.5°	882.0	880.2	872.7	879.2	878.3
5°	878.0	876.9	867.4	875.6	874.5
7.5°	871.7	869.4	860.1	868.1	866.9
10°	865.1	862.8	854.5	861.5	860.3
12.5°	856.6	855.2	846.0	853.0	852.8
15°	842.7	840.4	832.1	839.2	839.2
17.5°	824.3	823.0	815.0	821.8	820.8
20°	812.1	809.8	802.7	808.6	808.6
22.5°	797.0	795.6	788.5	793.6	794.5
25°	774.4	772.2	765.1	769.8	772.1
27.5°	749.5	747.6	741.7	744.9	746.4
30°	729.8	729.8	723.9	725.1	728.6
32.5°	711.8	711.8	705.0	706.2	707.8
35°	682.6	680.4	674.5	674.5	677.9
37.5°	648.7	647.6	643.8	643.1	644.1
40°	626.1	625.0	620.2	621.4	621.4
42.5°	603.6	602.4	597.6	596.1	597.9
45°	566.1	567.3	561.5	560.3	561.5
47.5°	529.2	529.2	524.5	521.2	523.0
50°	503.8	503.8	499.0	496.7	496.7
52.5°	477.4	478.3	472.7	469.4	470.3
55°	439.0	439.0	433.2	429.6	430.8
57.5°	396.7	396.7	390.8	387.3	389.4
60°	368.4	368.4	362.5	359.0	360.2
62.5°	340.2	340.2	334.3	330.7	330.9
65°	296.6	295.4	290.7	287.1	287.1
67.5°	254.7	251.7	248.1	243.4	243.4
70°	223.6	222.5	218.9	214.2	214.2
72.5°	195.3	193.3	189.7	186.0	186.0
75°	151.9	150.7	147.1	144.8	143.6
77.5°	108.8	107.9	107.6	104.3	105.2
80°	82.4	82.4	81.3	78.9	78.9
82.5°	58.9	59.8	57.7	57.2	56.3
85°	24.8	27.0	28.2	29.4	29.4
87.5°	5.2	8.9	9.4	10.6	10.6
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	269.3	1111.8	928.8	700.4
100°	135.4	282.8	1239.9	1297.3	1076.3
102.5°	164.6	301.8	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.3	1927.3	1808.7
107.5°	263.6	370.4	1233.4	2109.2	2139.8
110°	295.5	396.9	1183.5	2165.6	2277.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.4	465.5	1072.8	2072.8	2344.4
117.5°	426.8	506.7	1024.2	1944.4	2247.0
120°	456.8	534.0	999.7	1852.3	2163.2
122.5°	483.3	559.5	981.9	1758.0	2068.0
125°	519.3	596.5	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.4
130°	574.7	650.6	946.8	1447.6	1673.3
132.5°	595.4	670.5	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.3
137.5°	653.8	723.4	933.0	1248.6	1391.4
140°	673.5	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.4	928.4	1171.5	1280.3
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.2	920.4	1082.0	1147.2
150°	774.9	817.4	918.4	1056.3	1110.5
152.5°	793.6	830.7	917.5	1035.4	1079.4
155°	820.8	850.6	916.2	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.4	976.6	992.6
162.5°	872.8	888.6	918.2	967.0	978.5
165°	890.2	900.6	919.6	956.2	960.9
167.5°	904.3	910.3	920.8	947.9	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	931.5
177.5°	928.1	926.3	921.6	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)