

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: P564343

Luminaire Tested: **SQ4-PR1-125U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564343
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-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

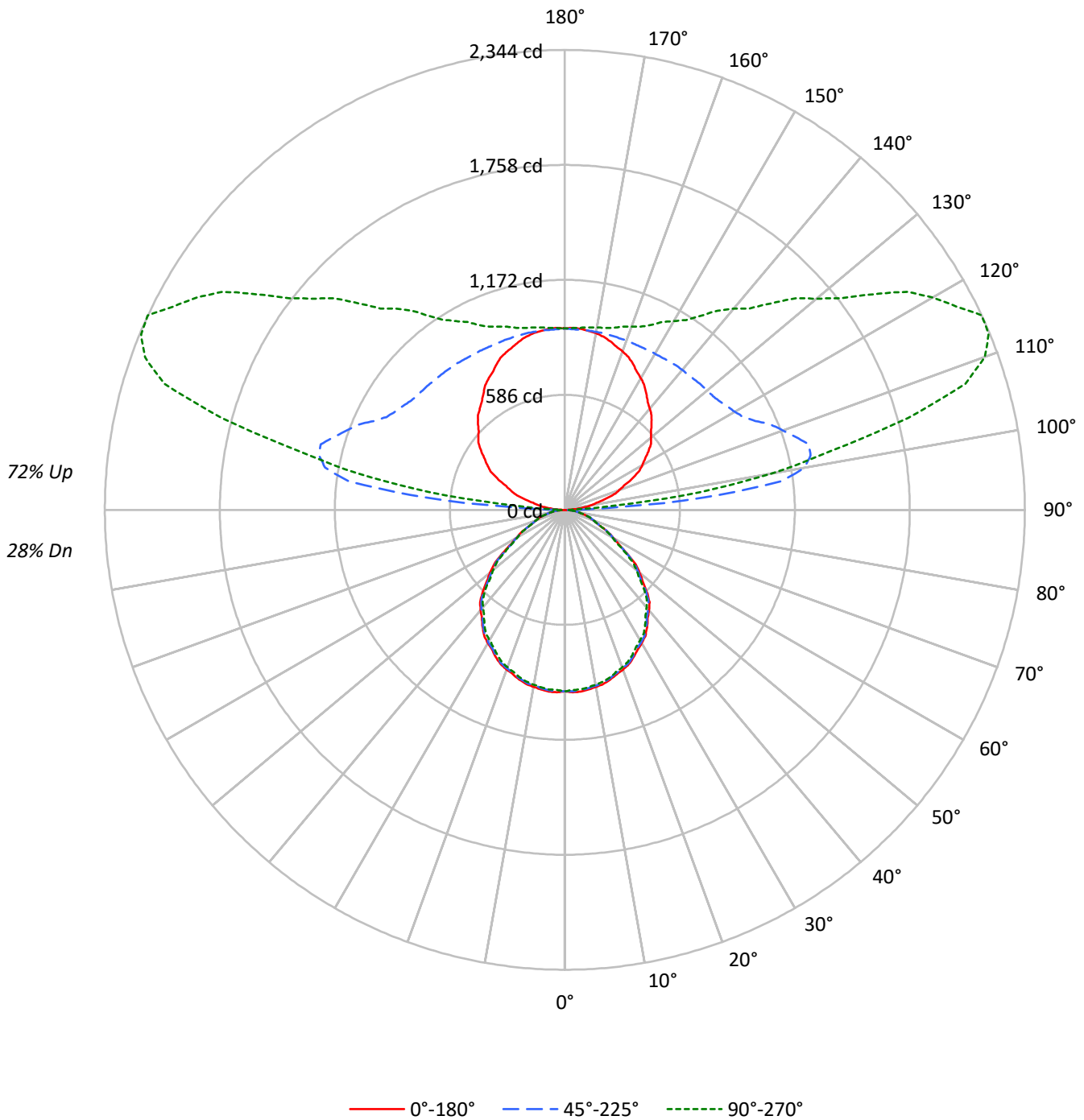
Lumens per Lamp: N/A
Luminaire Lumens: 8282.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5654
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5592	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5143	5054	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3401
65°	3027	3039	3016
70°	2780	2795	2795
75°	2671	2671	2690
80°	2511	2540	2511
85°	2025	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.1
10°-20°	250.3	3.0
20°-30°	377.6	4.6
30°-40°	449.9	5.4
40°-50°	443.6	5.4
50°-60°	339.0	4.1
60°-70°	209.8	2.5
70°-80°	119.2	1.4
80°-90°	38.4	0.5
90°-100°	432.4	5.2
100°-110°	1164.8	14.1
110°-120°	1222.5	14.8
120°-130°	992.0	12.0
130°-140°	778.0	9.4
140°-150°	597.3	7.2
150°-160°	429.5	5.2
160°-170°	262.4	3.2
170°-180°	88.5	1.1
0°-30°	715.4	8.6
0°-40°	1165.3	14.1
0°-60°	1947.9	23.5
0°-90°	2315.2	28.0
90°-120°	2819.7	34.0
90°-150°	5187.0	62.6
90°-180°	5967.0	72.0
0°-180°	8282.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	930	920	923	920	918	88
15°	895	886	889	886	885	253
25°	830	820	824	815	814	382
35°	731	722	724	715	714	456
45°	591	584	581	571	569	453
55°	387	381	378	372	371	347
65°	208	206	209	207	207	211
75°	112	112	112	113	113	119
85°	29	30	32	32	32	33
90°	2	7	14	15	15	6
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.3	925.3	925.3	925.3	925.3
2.5°	931.0	922.9	925.3	923.2	918.9
5°	930.0	919.9	922.9	919.6	918.1
7.5°	922.9	912.9	915.9	912.6	911.7
10°	916.5	907.1	910.1	906.9	905.3
12.5°	909.5	899.5	903.1	899.2	897.7
15°	895.0	885.6	889.4	886.2	884.6
17.5°	879.0	869.1	872.8	869.1	867.1
20°	866.3	856.9	860.7	855.1	854.3
22.5°	852.3	842.9	846.7	839.2	839.0
25°	829.6	819.5	824.0	815.3	814.5
27.5°	802.7	793.3	797.1	788.2	787.2
30°	784.2	774.8	778.6	769.0	767.5
32.5°	763.2	754.4	757.6	748.0	747.1
35°	730.8	722.2	724.4	714.8	714.1
37.5°	694.0	686.2	687.4	676.9	676.1
40°	667.8	660.0	660.7	649.5	648.7
42.5°	639.2	631.4	630.7	619.5	618.7
45°	591.3	583.5	581.0	570.6	569.0
47.5°	536.8	529.0	524.2	515.8	514.7
50°	497.3	489.5	485.3	478.1	475.8
52.5°	454.6	446.8	443.3	436.7	434.3
55°	387.3	381.1	378.5	372.1	370.6
57.5°	323.4	319.2	318.5	312.2	311.6
60°	284.5	282.2	282.1	276.5	276.5
62.5°	251.4	249.6	250.9	247.2	246.6
65°	208.0	206.4	208.8	207.2	207.2
67.5°	173.7	173.7	175.2	174.5	174.5
70°	154.6	154.6	155.4	155.4	155.4
72.5°	137.4	136.8	138.8	138.8	138.2
75°	112.4	112.4	112.4	113.2	113.2
77.5°	87.5	87.7	88.3	88.1	87.5
80°	70.9	71.7	71.7	70.9	70.9
82.5°	54.4	55.1	55.1	55.0	54.4
85°	28.7	30.2	31.9	31.9	31.9
87.5°	8.8	12.2	15.6	15.8	15.2
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



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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°	380.3	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)