

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: P563671

Luminaire Tested: **SQ4-PP3-125U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563671
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-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

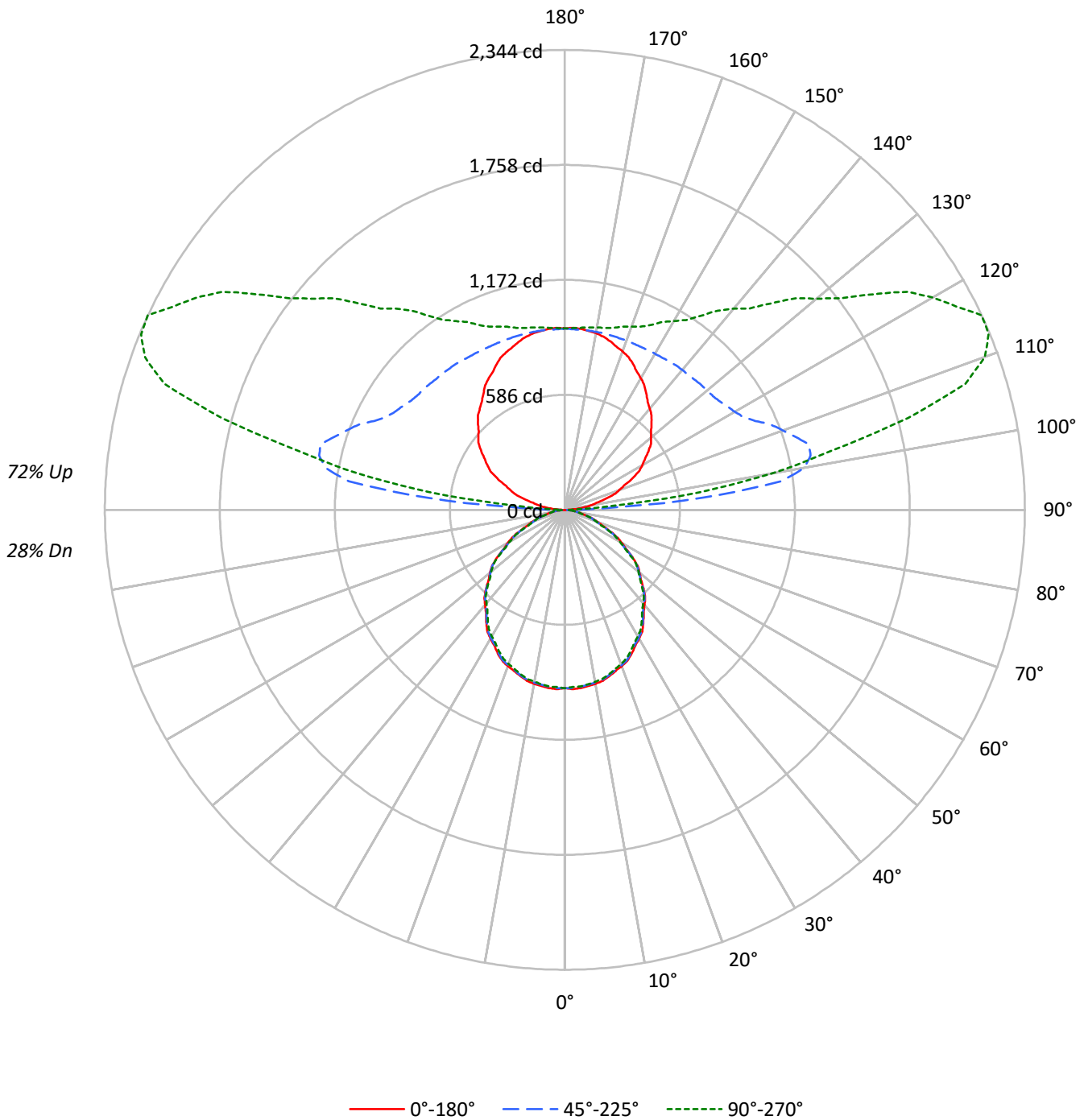
Lumens per Lamp: N/A
Luminaire Lumens: 8296.3 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5578
10°	5623	5584	5559
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5286
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4851
50°	4758	4727	4681
55°	4511	4451	4417
60°	4106	3989	3970
65°	3618	3467	3455
70°	3124	2994	2994
75°	2688	2650	2614
80°	2370	2398	2341
85°	1856	2025	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.0
10°-20°	245.5	3.0
20°-30°	367.7	4.4
30°-40°	431.2	5.2
40°-50°	432.6	5.2
50°-60°	369.0	4.4
60°-70°	240.7	2.9
70°-80°	120.7	1.5
80°-90°	35.6	0.4
90°-100°	432.4	5.2
100°-110°	1164.8	14.0
110°-120°	1222.5	14.7
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°	699.1	8.4
0°-40°	1130.3	13.6
0°-60°	1931.9	23.3
0°-90°	2329.0	28.1
90°-120°	2819.7	34.0
90°-150°	5187.0	62.5
90°-180°	5967.0	71.9
0°-180°	8296.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	912	904	907	904	904	87
15°	877	869	872	869	868	247
25°	808	799	802	795	794	372
35°	698	691	693	685	684	436
45°	567	563	563	558	558	437
55°	421	419	415	413	412	374
65°	249	244	238	237	237	248
75°	113	113	112	111	110	123
85°	26	29	29	29	29	31
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°	909.1	909.1	909.1	909.1	909.1
2.5°	914.8	907.4	909.1	907.7	904.0
5°	912.3	903.7	906.7	903.5	903.5
7.5°	906.1	896.7	899.7	896.5	896.4
10°	900.3	891.0	894.0	890.8	890.0
12.5°	892.1	882.7	886.3	882.5	882.3
15°	877.2	868.7	872.5	869.2	867.7
17.5°	860.5	851.2	855.7	851.2	850.6
20°	847.8	838.4	843.0	836.6	836.6
22.5°	832.5	823.1	828.3	820.0	820.0
25°	807.9	798.6	802.3	795.1	794.4
27.5°	778.8	769.6	773.5	765.4	765.2
30°	757.7	749.1	753.7	745.0	744.2
32.5°	734.8	726.8	730.1	721.4	720.6
35°	698.0	690.9	693.2	685.2	684.4
37.5°	659.2	652.1	654.6	647.8	647.4
40°	631.8	627.2	627.8	622.2	620.7
42.5°	606.3	601.0	601.7	596.1	595.8
45°	567.3	563.4	563.3	557.7	557.7
47.5°	525.9	522.9	522.0	517.4	517.3
50°	497.2	494.8	494.0	490.0	489.2
52.5°	467.2	466.1	463.4	460.0	459.9
55°	420.7	419.1	415.1	412.7	411.9
57.5°	370.2	367.1	362.5	359.0	359.7
60°	333.8	330.7	324.3	322.7	322.7
62.5°	298.8	295.0	288.6	286.4	287.6
65°	248.6	243.9	238.2	236.7	237.4
67.5°	203.0	198.8	192.7	192.6	192.0
70°	173.7	171.4	166.5	166.5	166.5
72.5°	147.6	146.5	142.9	142.9	142.3
75°	113.1	113.1	111.5	110.7	110.0
77.5°	84.8	85.1	84.3	83.5	82.1
80°	66.9	68.5	67.7	66.9	66.1
82.5°	50.4	51.9	51.8	50.4	50.2
85°	26.3	28.6	28.7	28.7	28.7
87.5°	7.5	10.9	13.0	13.3	13.9
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)