

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: P563702

Luminaire Tested: **SQ4-PP3-125U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563702
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-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

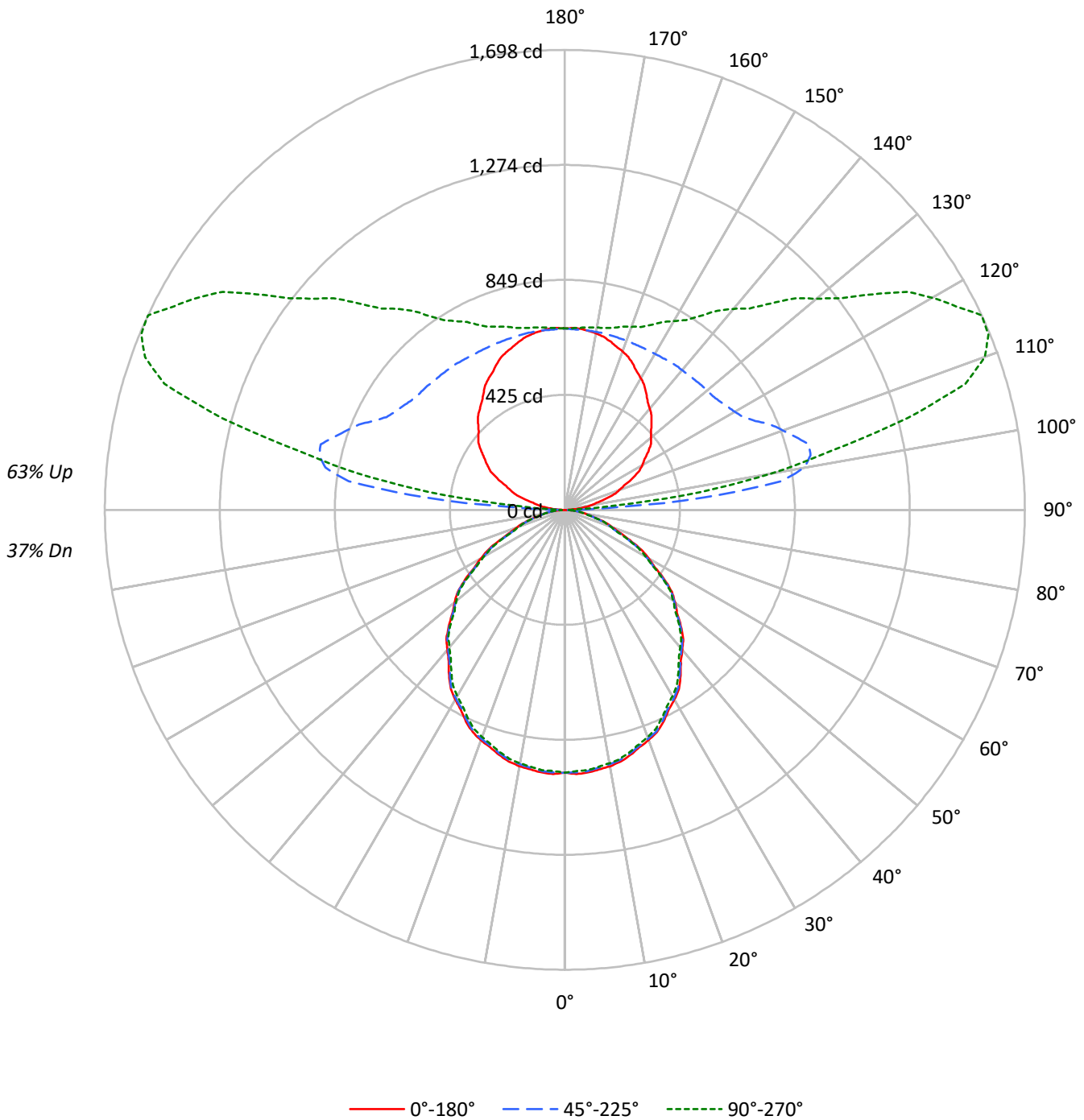
Lumens per Lamp: N/A
Luminaire Lumens: 6807.2 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8933
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8572	8463
35°	8391	8334	8229
40°	8122	8072	7979
45°	7902	7846	7769
50°	7617	7569	7495
55°	7224	7127	7073
60°	6576	6388	6357
65°	5794	5552	5532
70°	5001	4796	4796
75°	4306	4246	4185
80°	3794	3841	3751
85°	2975	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.3
10°-20°	262.0	3.8
20°-30°	392.5	5.8
30°-40°	460.3	6.8
40°-50°	461.8	6.8
50°-60°	393.9	5.8
60°-70°	256.9	3.8
70°-80°	128.9	1.9
80°-90°	37.2	0.5
90°-100°	313.2	4.6
100°-110°	843.6	12.4
110°-120°	885.4	13.0
120°-130°	718.5	10.6
130°-140°	563.5	8.3
140°-150°	432.6	6.4
150°-160°	311.0	4.6
160°-170°	190.0	2.8
170°-180°	64.1	0.9
0°-30°	746.2	11.0
0°-40°	1206.6	17.7
0°-60°	2062.3	30.3
0°-90°	2485.3	36.5
90°-120°	2042.2	30.0
90°-150°	3756.7	55.2
90°-180°	4322.0	63.5
0°-180°	6807.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	974	965	968	964	964	92
15°	936	927	931	928	926	264
25°	862	852	856	849	848	397
35°	745	738	740	731	731	465
45°	606	601	601	595	595	466
55°	449	447	443	440	440	399
65°	265	260	254	253	253	265
75°	121	121	119	118	117	131
85°	28	31	31	31	31	33
90°	2	5	10	11	11	4
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.4	970.4	970.4	970.4	970.4
2.5°	976.5	968.6	970.4	969.0	965.0
5°	973.8	964.7	967.9	964.5	964.5
7.5°	967.2	957.2	960.4	957.0	956.8
10°	961.1	951.1	954.3	950.8	950.0
12.5°	952.2	942.2	946.1	942.0	941.8
15°	936.4	927.3	931.3	927.9	926.2
17.5°	918.5	908.6	913.4	908.7	908.0
20°	904.9	895.0	899.8	893.0	893.0
22.5°	888.6	878.6	884.2	875.3	875.3
25°	862.4	852.4	856.5	848.8	847.9
27.5°	831.3	821.5	825.7	817.0	816.8
30°	808.8	799.7	804.6	795.2	794.4
32.5°	784.3	775.8	779.4	770.0	769.2
35°	745.0	737.6	739.9	731.4	730.6
37.5°	703.7	696.1	698.8	691.4	691.1
40°	674.4	669.5	670.2	664.2	662.5
42.5°	647.2	641.6	642.3	636.3	636.0
45°	605.6	601.4	601.3	595.4	595.4
47.5°	561.3	558.2	557.2	552.3	552.1
50°	530.7	528.2	527.3	523.0	522.2
52.5°	498.7	497.6	494.7	491.1	490.9
55°	449.1	447.4	443.1	440.5	439.7
57.5°	395.1	391.8	387.0	383.3	383.9
60°	356.4	353.0	346.2	344.5	344.5
62.5°	318.9	314.9	308.1	305.7	307.0
65°	265.4	260.4	254.3	252.6	253.4
67.5°	216.7	212.2	205.7	205.6	205.0
70°	185.4	182.9	177.8	177.8	177.8
72.5°	157.5	156.3	152.6	152.6	151.9
75°	120.8	120.8	119.1	118.2	117.4
77.5°	90.5	90.8	90.0	89.1	87.6
80°	71.4	73.1	72.3	71.4	70.6
82.5°	53.8	55.4	55.3	53.7	53.6
85°	28.1	30.6	30.6	30.6	30.6
87.5°	7.8	11.2	12.9	13.1	13.8
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)