

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: P563678

Luminaire Tested: **SQ4-PP3-125U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563678
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

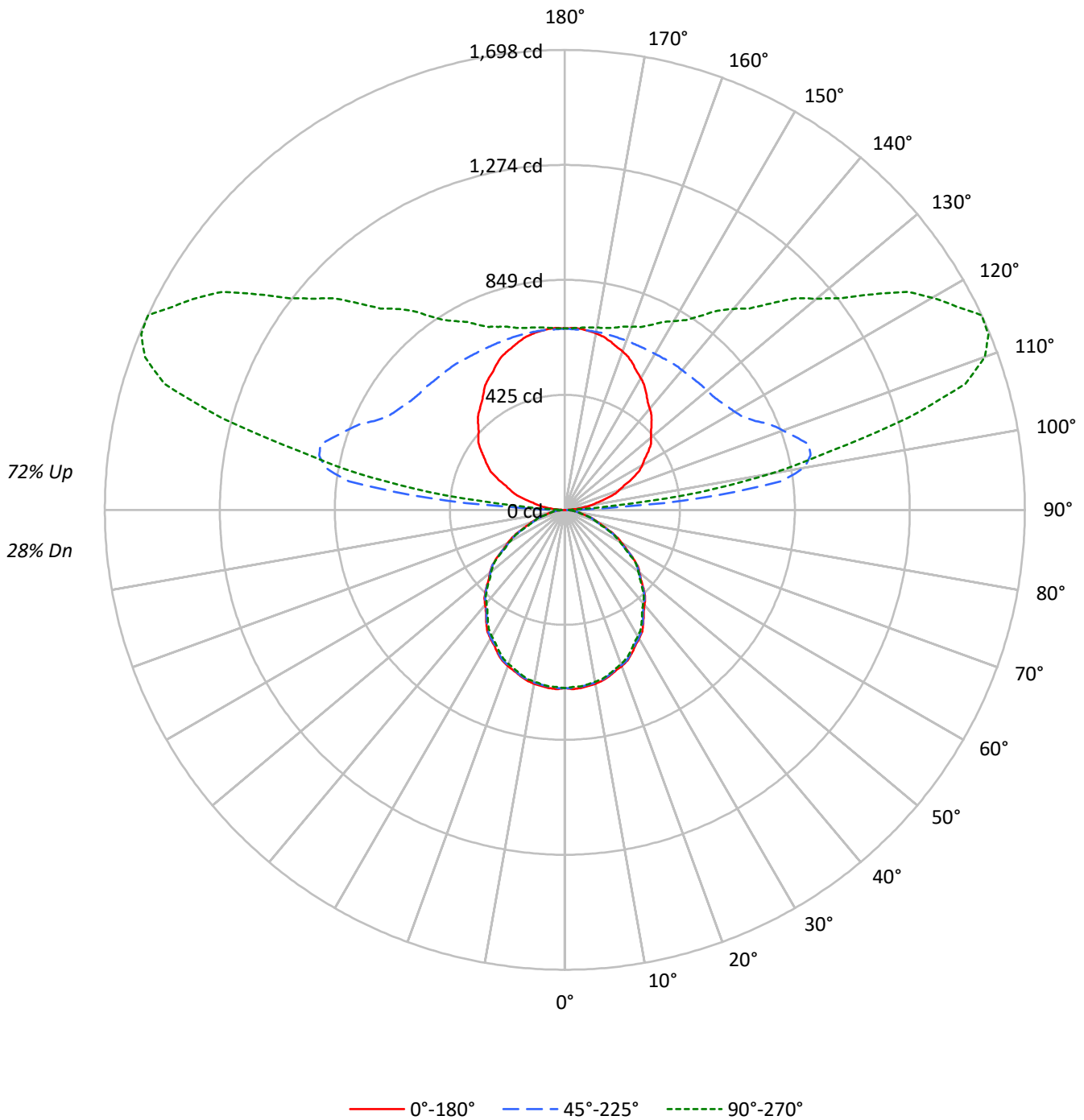
Lumens per Lamp: N/A
Luminaire Lumens: 6008.6 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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°	6075	6075	6075
5°	6119	6082	6061
10°	6109	6065	6039
15°	6068	6036	6002
20°	6028	5994	5949
25°	5956	5916	5857
30°	5847	5816	5742
35°	5694	5654	5583
40°	5511	5476	5414
45°	5361	5324	5270
50°	5169	5136	5085
55°	4901	4835	4798
60°	4462	4334	4312
65°	3930	3766	3755
70°	3394	3253	3253
75°	2920	2880	2838
80°	2577	2603	2545
85°	2011	2202	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.0
10°-20°	177.8	3.0
20°-30°	266.3	4.4
30°-40°	312.3	5.2
40°-50°	313.3	5.2
50°-60°	267.3	4.4
60°-70°	174.3	2.9
70°-80°	87.5	1.5
80°-90°	25.8	0.4
90°-100°	313.2	5.2
100°-110°	843.6	14.0
110°-120°	885.4	14.7
120°-130°	718.5	12.0
130°-140°	563.5	9.4
140°-150°	432.6	7.2
150°-160°	311.0	5.2
160°-170°	190.0	3.2
170°-180°	64.1	1.1
0°-30°	506.3	8.4
0°-40°	818.6	13.6
0°-60°	1399.2	23.3
0°-90°	1686.7	28.1
90°-120°	2042.2	34.0
90°-150°	3756.7	62.5
90°-180°	4322.0	71.9
0°-180°	6008.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	661	654	657	654	654	63
15°	635	629	632	630	628	179
25°	585	578	581	576	575	269
35°	506	500	502	496	496	316
45°	411	408	408	404	404	316
55°	305	304	301	299	298	271
65°	180	177	172	171	172	180
75°	82	82	81	80	80	89
85°	19	21	21	21	21	22
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°	658.4	658.4	658.4	658.4	658.4
2.5°	662.6	657.1	658.4	657.4	654.7
5°	660.7	654.5	656.7	654.4	654.4
7.5°	656.2	649.4	651.6	649.3	649.2
10°	652.1	645.3	647.4	645.1	644.6
12.5°	646.1	639.3	641.9	639.1	639.0
15°	635.3	629.1	631.9	629.5	628.4
17.5°	623.2	616.4	619.7	616.5	616.1
20°	614.0	607.2	610.5	605.9	605.9
22.5°	602.9	596.1	599.9	593.9	593.9
25°	585.1	578.4	581.1	575.9	575.3
27.5°	564.0	557.3	560.2	554.3	554.2
30°	548.8	542.6	545.9	539.5	539.0
32.5°	532.2	526.4	528.8	522.4	521.9
35°	505.5	500.4	502.0	496.2	495.7
37.5°	477.4	472.3	474.1	469.1	468.9
40°	457.6	454.2	454.7	450.6	449.5
42.5°	439.1	435.3	435.8	431.7	431.5
45°	410.9	408.0	408.0	403.9	403.9
47.5°	380.9	378.7	378.1	374.7	374.6
50°	360.1	358.4	357.8	354.9	354.3
52.5°	338.4	337.6	335.6	333.2	333.1
55°	304.7	303.6	300.6	298.9	298.3
57.5°	268.1	265.8	262.6	260.0	260.5
60°	241.8	239.5	234.9	233.7	233.7
62.5°	216.4	213.7	209.0	207.4	208.3
65°	180.0	176.7	172.5	171.4	172.0
67.5°	147.0	144.0	139.5	139.5	139.1
70°	125.8	124.1	120.6	120.6	120.6
72.5°	106.9	106.1	103.5	103.5	103.1
75°	81.9	81.9	80.8	80.2	79.6
77.5°	61.4	61.6	61.1	60.5	59.4
80°	48.5	49.6	49.0	48.5	47.9
82.5°	36.5	37.6	37.5	36.5	36.4
85°	19.0	20.7	20.8	20.8	20.8
87.5°	5.4	7.9	9.4	9.6	10.1
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)