

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: P564350

Luminaire Tested: **SQ4-PR1-125U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564350
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

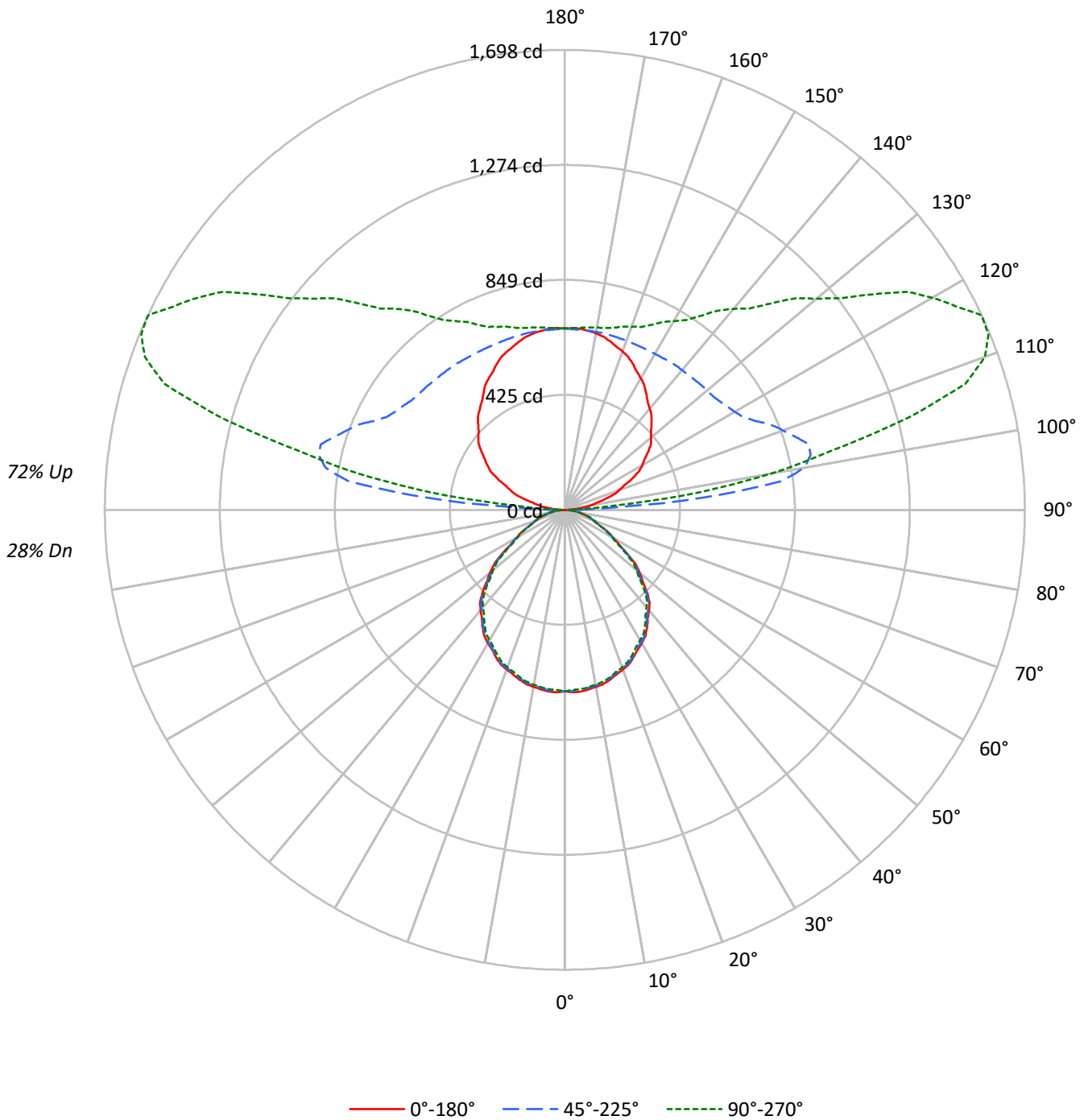
Lumens per Lamp: N/A
Luminaire Lumens: 5998.6 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	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°	6182	6182	6182
5°	6239	6190	6158
10°	6219	6175	6143
15°	6191	6152	6120
20°	6160	6121	6075
25°	6116	6075	6005
30°	6050	6008	5921
35°	5962	5910	5825
40°	5826	5763	5658
45°	5588	5491	5377
50°	5170	5045	4946
55°	4512	4411	4317
60°	3803	3770	3696
65°	3288	3301	3277
70°	3021	3037	3037
75°	2902	2902	2923
80°	2731	2758	2731
85°	2202	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.1
10°-20°	181.3	3.0
20°-30°	273.5	4.6
30°-40°	325.8	5.4
40°-50°	321.2	5.4
50°-60°	245.5	4.1
60°-70°	151.9	2.5
70°-80°	86.3	1.4
80°-90°	27.8	0.5
90°-100°	313.2	5.2
100°-110°	843.6	14.1
110°-120°	885.4	14.8
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°	518.1	8.6
0°-40°	844.0	14.1
0°-60°	1410.7	23.5
0°-90°	1676.8	28.0
90°-120°	2042.2	34.0
90°-150°	3756.7	62.6
90°-180°	4322.0	72.0
0°-180°	5998.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	674	666	668	666	665	64
15°	648	641	644	642	641	183
25°	601	594	597	590	590	276
35°	529	523	525	518	517	330
45°	428	423	421	413	412	328
55°	280	276	274	270	268	251
65°	151	150	151	150	150	153
75°	81	81	81	82	82	86
85°	21	22	23	23	23	24
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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CATALOG NUMBER: SQ4-PR1-125U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.1	670.1	670.1	670.1	670.1
2.5°	674.3	668.4	670.1	668.7	665.5
5°	673.6	666.2	668.4	666.0	664.9
7.5°	668.4	661.2	663.3	661.0	660.3
10°	663.8	657.0	659.1	656.8	655.7
12.5°	658.7	651.5	654.1	651.3	650.1
15°	648.2	641.4	644.1	641.8	640.7
17.5°	636.6	629.4	632.1	629.4	628.0
20°	627.4	620.6	623.4	619.3	618.7
22.5°	617.2	610.5	613.2	607.8	607.7
25°	600.8	593.5	596.8	590.4	589.9
27.5°	581.3	574.6	577.3	570.8	570.1
30°	567.9	561.2	563.9	557.0	555.8
32.5°	552.7	546.4	548.7	541.7	541.1
35°	529.3	523.1	524.7	517.7	517.2
37.5°	502.6	497.0	497.9	490.2	489.7
40°	483.7	478.0	478.5	470.4	469.8
42.5°	462.9	457.3	456.8	448.7	448.1
45°	428.3	422.6	420.8	413.2	412.1
47.5°	388.8	383.1	379.7	373.5	372.7
50°	360.2	354.5	351.5	346.3	344.6
52.5°	329.2	323.6	321.0	316.3	314.6
55°	280.5	276.0	274.2	269.5	268.4
57.5°	234.2	231.2	230.6	226.1	225.7
60°	206.1	204.4	204.3	200.3	200.3
62.5°	182.0	180.8	181.7	179.0	178.6
65°	150.6	149.5	151.2	150.1	150.1
67.5°	125.8	125.8	126.9	126.4	126.4
70°	112.0	112.0	112.6	112.6	112.6
72.5°	99.5	99.1	100.5	100.5	100.1
75°	81.4	81.4	81.4	82.0	82.0
77.5°	63.4	63.5	64.0	63.8	63.4
80°	51.4	51.9	51.9	51.4	51.4
82.5°	39.4	39.9	39.9	39.8	39.4
85°	20.8	21.9	23.1	23.1	23.1
87.5°	6.3	8.8	11.3	11.4	11.0
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



TEST NUMBER: P564350

CATALOG NUMBER: SQ4-PR1-125U-050D-940-1D-UNV-STD-W-4

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)