

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: P563582

Luminaire Tested: **SQ4-PP3-100U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563582
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

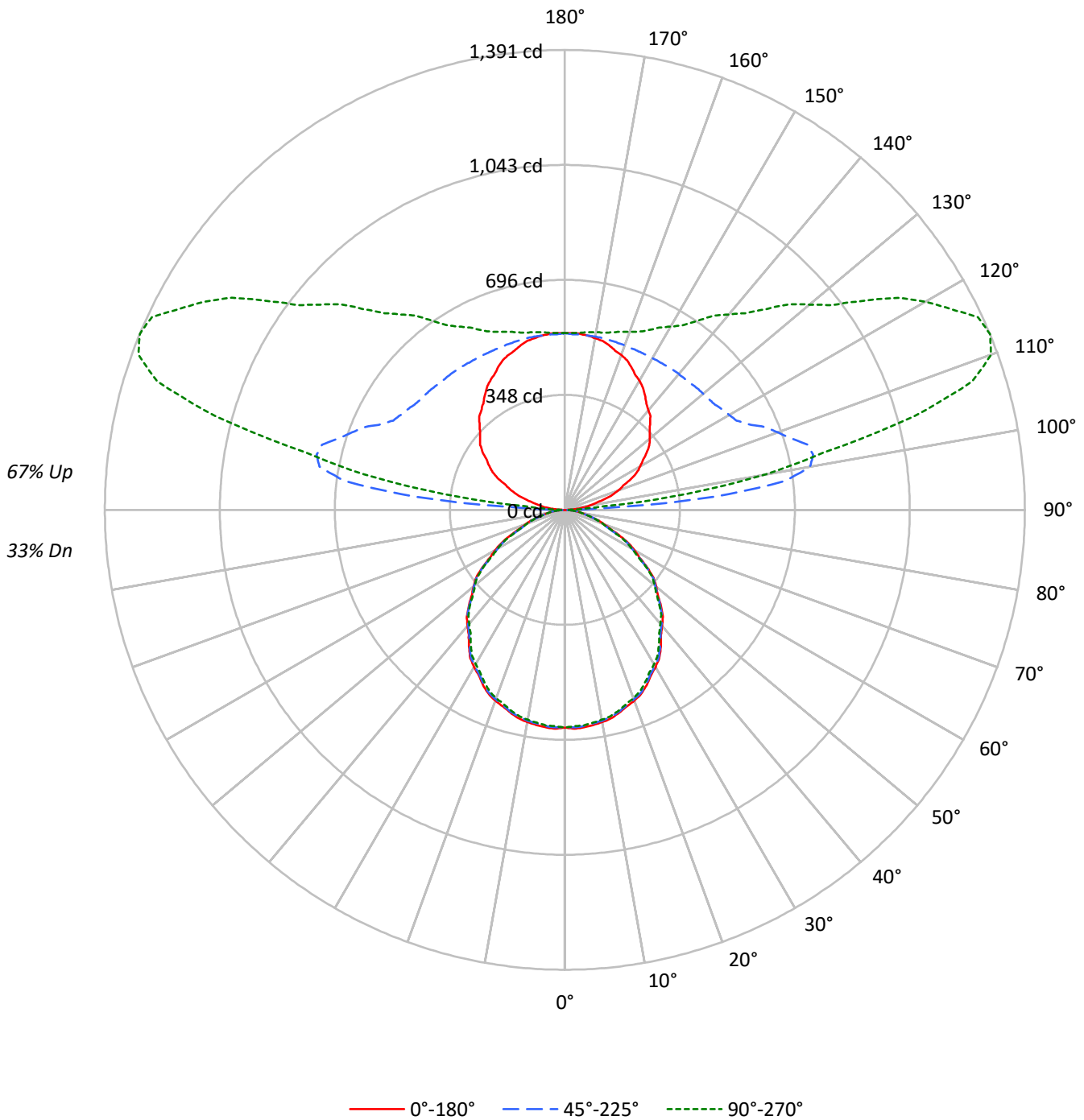
Lumens per Lamp: N/A
Luminaire Lumens: 5158.3 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
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



TEST NUMBER: P563582
CATALOG NUMBER: SQ4-PP3-100U-050D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563582

CATALOG NUMBER: SQ4-PP3-100U-050D-940-1D-UNV-STD-W-4

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

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



TEST NUMBER: P563582

CATALOG NUMBER: SQ4-PP3-100U-050D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.2
10°-20°	177.8	3.4
20°-30°	266.3	5.2
30°-40°	312.3	6.1
40°-50°	313.3	6.1
50°-60°	267.3	5.2
60°-70°	174.3	3.4
70°-80°	87.5	1.7
80°-90°	25.3	0.5
90°-100°	250.2	4.9
100°-110°	690.9	13.4
110°-120°	712.5	13.8
120°-130°	572.6	11.1
130°-140°	450.0	8.7
140°-150°	345.1	6.7
150°-160°	248.0	4.8
160°-170°	151.7	2.9
170°-180°	51.1	1.0
0°-30°	506.3	9.8
0°-40°	818.6	15.9
0°-60°	1399.2	27.1
0°-90°	1686.3	32.7
90°-120°	1653.6	32.1
90°-150°	3021.2	58.6
90°-180°	3472.0	67.3
0°-180°	5158.3	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	3	7	8	8	3
95°	37	135	454	187	121	39
105°	123	190	760	1160	1093	131
115°	221	267	612	1212	1378	217
125°	303	344	555	939	1102	269
135°	364	404	540	761	858	282
145°	422	452	533	648	697	264
155°	476	492	528	581	599	219
165°	516	522	531	552	556	145
175°	534	535	532	540	538	51
180°	534	534	534	534	534	

TEST NUMBER: P563582

CATALOG NUMBER: SQ4-PP3-100U-050D-940-1D-UNV-STD-W-4

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	7.6	8.8	8.9	9.6
90°	1.7	3.4	6.8	7.7	8.5
92.5°	15.4	63.9	114.2	41.7	32.5
95°	36.8	135.4	454.0	186.6	121.4
97.5°	60.9	151.7	672.5	517.8	375.0
100°	78.7	161.4	753.2	758.6	616.4
102.5°	95.8	172.5	769.0	937.3	802.5
105°	123.1	190.0	760.1	1160.4	1092.7
107.5°	152.2	211.7	717.7	1268.0	1292.7
110°	172.7	226.2	684.8	1291.1	1371.4



TEST NUMBER: P563582

CATALOG NUMBER: SQ4-PP3-100U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.2	242.7	654.1	1272.9	1391.2
115°	220.6	266.6	612.2	1211.9	1378.2
117.5°	246.2	292.0	584.6	1126.0	1315.3
120°	263.3	308.5	573.7	1067.9	1258.5
122.5°	279.8	322.9	564.8	1013.7	1194.2
125°	302.7	344.5	554.9	939.1	1102.1
127.5°	322.2	364.0	549.1	876.0	1016.6
130°	335.2	377.0	546.3	837.4	965.3
132.5°	347.5	387.3	543.6	805.0	920.8
135°	364.2	403.5	539.5	760.6	857.6
137.5°	383.0	418.8	537.4	723.3	806.1
140°	393.3	428.4	536.1	698.5	771.2
142.5°	404.9	437.4	534.7	676.4	740.4
145°	422.4	451.6	532.7	647.5	696.8
147.5°	439.1	464.7	530.8	623.1	661.4
150°	451.4	472.3	530.1	608.6	639.5
152.5°	461.0	480.6	529.4	596.2	621.7
155°	476.2	492.1	528.4	581.0	599.3
157.5°	490.2	502.5	528.6	569.9	582.4
160°	498.5	509.3	529.2	563.6	572.8
162.5°	505.3	514.8	529.9	558.1	565.3
165°	515.6	522.2	530.9	551.6	555.7
167.5°	523.4	527.4	531.8	547.6	548.9
170°	527.5	530.9	531.8	545.5	545.5
172.5°	530.9	533.0	531.8	542.7	542.1
175°	534.4	535.2	531.8	539.5	537.8
177.5°	535.7	535.1	531.6	536.4	535.0
180°	534.4	534.4	534.4	534.4	534.4

(END OF REPORT)