

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: P561805

Luminaire Tested: **SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561805  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-025U-100D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

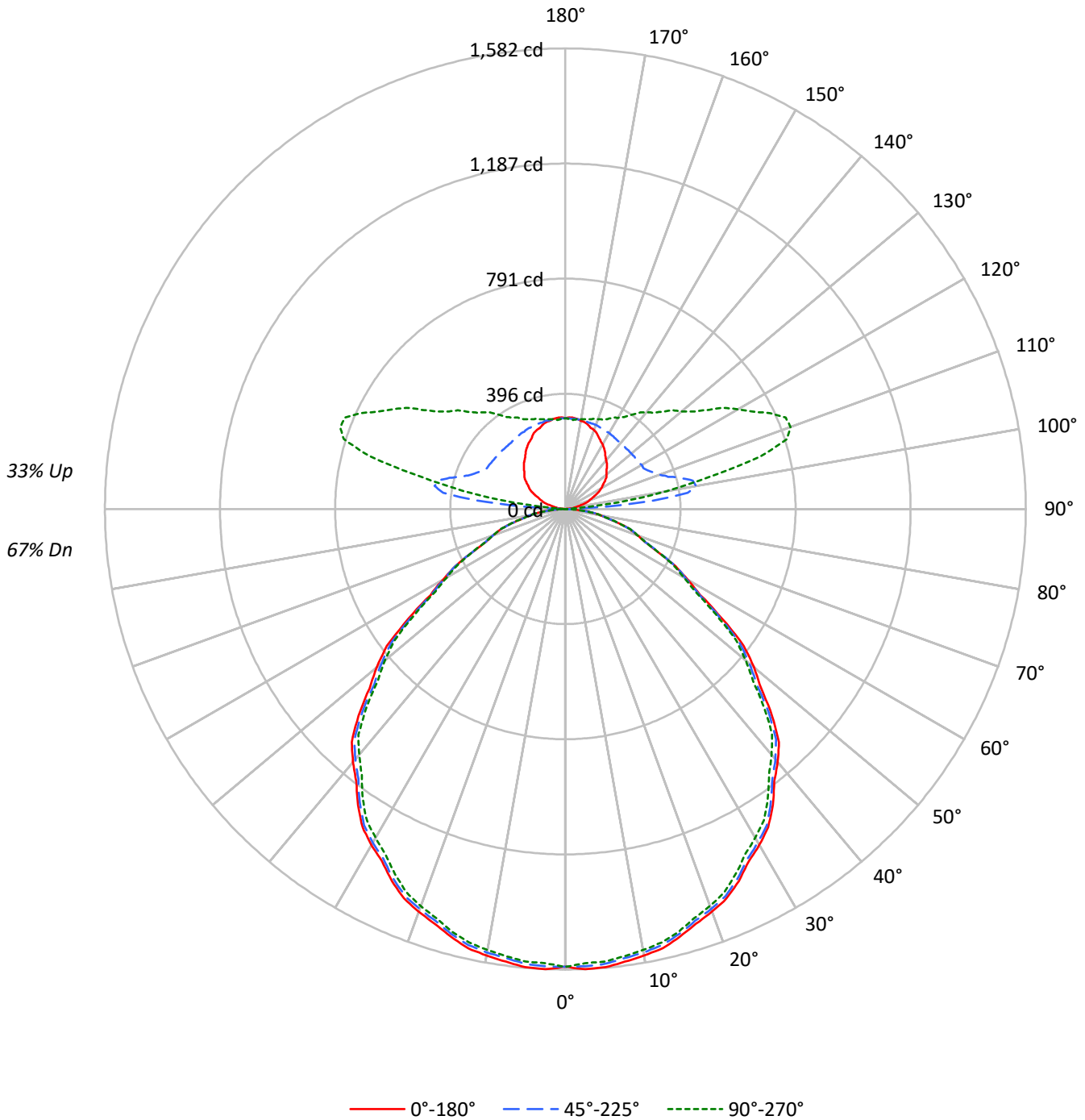
Lumens per Lamp: N/A  
Luminaire Lumens: 5867.5 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 56.4  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	54	52	49
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14507	14507	14507
5°	14638	14525	14450
10°	14591	14490	14413
15°	14527	14437	14359
20°	14455	14361	14255
25°	14353	14256	14090
30°	14198	14097	13894
35°	13988	13866	13668
40°	13669	13523	13277
45°	13112	12882	12617
50°	12130	11839	11605
55°	10587	10348	10131
60°	8922	8846	8673
65°	7717	7746	7687
70°	7086	7124	7124
75°	6809	6809	6855
80°	6402	6477	6402
85°	5166	5738	5738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	2.5
10°-20°	425.4	7.3
20°-30°	641.7	10.9
30°-40°	764.6	13.0
40°-50°	753.8	12.8
50°-60°	576.1	9.8
60°-70°	356.5	6.1
70°-80°	202.5	3.5
80°-90°	61.6	1.0
90°-100°	142.1	2.4
100°-110°	404.2	6.9
110°-120°	387.3	6.6
120°-130°	306.6	5.2
130°-140°	246.0	4.2
140°-150°	192.6	3.3
150°-160°	140.9	2.4
160°-170°	87.3	1.5
170°-180°	29.6	0.5
0°-30°	1215.8	20.7
0°-40°	1980.4	33.8
0°-60°	3310.2	56.4
0°-90°	3930.8	67.0
90°-120°	933.6	15.9
90°-150°	1678.9	28.6
90°-180°	1937.0	33.0
0°-180°	5867.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1580	1563	1568	1563	1560	150
15°	1521	1505	1512	1506	1503	429
25°	1410	1393	1400	1386	1384	649
35°	1242	1227	1231	1215	1214	775
45°	1005	992	987	970	967	770
55°	658	648	643	632	630	590
65°	354	351	355	352	352	358
75°	191	191	191	192	192	202
85°	49	51	54	54	54	57
90°	0	0	0	0	0	3
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	

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CATALOG NUMBER: SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1582.2	1568.4	1572.4	1569.0	1561.6
5°	1580.5	1563.3	1568.3	1562.9	1560.2
7.5°	1568.3	1551.4	1556.4	1551.0	1549.4
10°	1557.5	1541.6	1546.7	1541.2	1538.5
12.5°	1545.6	1528.6	1534.7	1528.2	1525.5
15°	1520.9	1505.0	1511.5	1506.0	1503.3
17.5°	1493.8	1476.9	1483.3	1477.0	1473.5
20°	1472.2	1456.3	1462.7	1453.2	1451.9
22.5°	1448.3	1432.5	1438.9	1426.1	1425.9
25°	1409.9	1392.7	1400.4	1385.5	1384.1
27.5°	1364.1	1348.2	1354.6	1339.4	1337.8
30°	1332.7	1316.8	1323.2	1306.9	1304.2
32.5°	1296.9	1282.1	1287.4	1271.2	1269.6
35°	1241.9	1227.4	1231.1	1214.8	1213.5
37.5°	1179.4	1166.1	1168.3	1150.4	1149.0
40°	1134.9	1121.7	1122.8	1103.8	1102.4
42.5°	1086.2	1072.9	1071.8	1052.8	1051.5
45°	1004.9	991.7	987.3	969.7	967.0
47.5°	912.3	899.0	890.9	876.5	874.6
50°	845.1	831.9	824.8	812.5	808.5
52.5°	772.5	759.3	753.3	742.1	738.1
55°	658.2	647.6	643.3	632.4	629.8
57.5°	549.6	542.4	541.2	530.6	529.6
60°	483.5	479.5	479.4	470.0	470.0
62.5°	427.2	424.2	426.3	420.1	419.0
65°	353.5	350.8	354.8	352.1	352.1
67.5°	295.2	295.2	297.7	296.6	296.6
70°	262.7	262.7	264.1	264.1	264.1
72.5°	233.5	232.4	235.9	235.9	234.8
75°	191.0	191.0	191.0	192.3	192.3
77.5°	148.7	149.0	150.1	149.8	148.7
80°	120.5	121.9	121.9	120.5	120.5
82.5°	92.4	93.7	93.7	93.4	92.4
85°	48.8	51.4	54.2	54.2	54.2
87.5°	14.1	18.3	21.7	21.6	20.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)