

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: P563906

Luminaire Tested: **SQ4-PR1-025U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563906  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

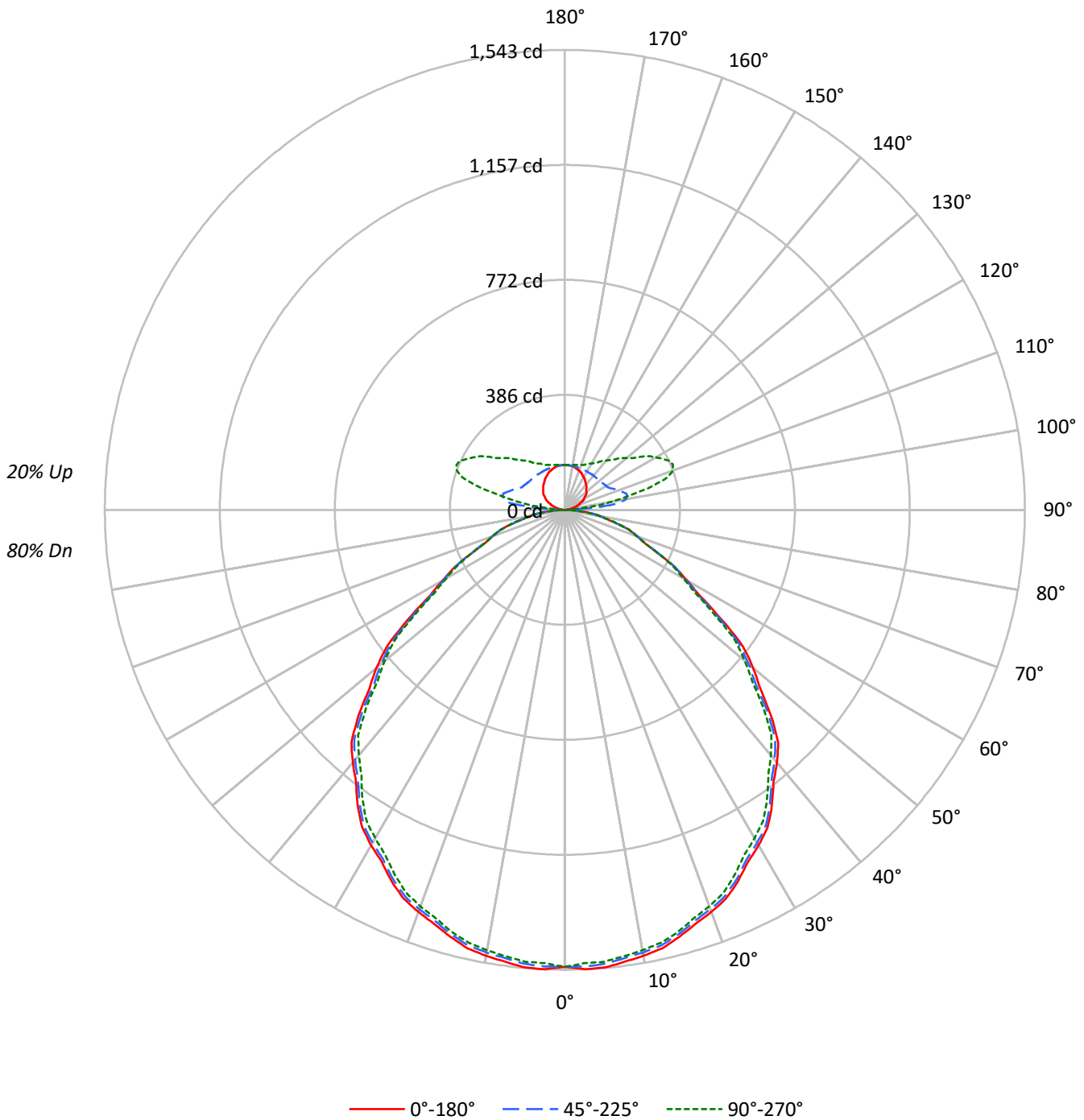
Lumens per Lamp: N/A  
Luminaire Lumens: 4809.5 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.7  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

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

	0°	45°	90°
0°	14147	14147	14147
5°	14274	14164	14090
10°	14229	14130	14056
15°	14166	14078	14003
20°	14095	14004	13901
25°	13995	13902	13740
30°	13844	13746	13549
35°	13641	13521	13328
40°	13329	13186	12947
45°	12786	12562	12304
50°	11829	11544	11316
55°	10325	10090	9878
60°	8700	8626	8457
65°	7525	7554	7497
70°	6911	6946	6946
75°	6638	6638	6684
80°	6243	6317	6243
85°	5028	5589	5589



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.0	3.0
10°-20°	414.9	8.6
20°-30°	625.7	13.0
30°-40°	745.6	15.5
40°-50°	735.0	15.3
50°-60°	561.8	11.7
60°-70°	347.6	7.2
70°-80°	197.4	4.1
80°-90°	60.9	1.3
90°-100°	73.4	1.5
100°-110°	192.9	4.0
110°-120°	200.0	4.2
120°-130°	160.4	3.3
130°-140°	125.9	2.6
140°-150°	96.6	2.0
150°-160°	69.6	1.4
160°-170°	42.6	0.9
170°-180°	14.4	0.3
0°-30°	1185.6	24.7
0°-40°	1931.1	40.2
0°-60°	3227.9	67.1
0°-90°	3833.9	79.7
90°-120°	466.2	9.7
90°-150°	849.1	17.7
90°-180°	976.0	20.3
0°-180°	4809.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1541	1524	1529	1524	1521	146
15°	1483	1468	1474	1468	1466	419
25°	1375	1358	1366	1351	1350	633
35°	1211	1197	1200	1185	1183	756
45°	980	967	963	946	943	751
55°	642	632	627	617	614	575
65°	345	342	346	343	343	349
75°	186	186	186	188	188	197
85°	48	50	53	53	53	55
90°	1	3	8	4	4	3
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1533.3	1533.3	1533.3	1533.3	1533.3
2.5°	1542.8	1529.4	1533.3	1530.0	1522.7
5°	1541.2	1524.4	1529.3	1524.0	1521.4
7.5°	1529.3	1512.8	1517.7	1512.4	1510.9
10°	1518.8	1503.3	1508.2	1502.9	1500.3
12.5°	1507.2	1490.6	1496.6	1490.2	1487.6
15°	1483.1	1467.6	1473.9	1468.5	1466.0
17.5°	1456.7	1440.2	1446.4	1440.3	1436.9
20°	1435.6	1420.1	1426.3	1417.1	1415.8
22.5°	1412.3	1396.8	1403.1	1390.7	1390.4
25°	1374.8	1358.0	1365.6	1351.0	1349.7
27.5°	1330.2	1314.7	1320.9	1306.1	1304.6
30°	1299.5	1284.1	1290.3	1274.4	1271.8
32.5°	1264.7	1250.2	1255.4	1239.6	1238.0
35°	1211.1	1196.9	1200.5	1184.6	1183.3
37.5°	1150.0	1137.1	1139.2	1121.8	1120.5
40°	1106.7	1093.8	1094.8	1076.3	1075.0
42.5°	1059.2	1046.3	1045.2	1026.7	1025.4
45°	979.9	967.0	962.8	945.5	943.0
47.5°	889.6	876.7	868.7	854.7	852.9
50°	824.1	811.2	804.3	792.3	788.4
52.5°	753.3	740.4	734.6	723.6	719.8
55°	641.9	631.5	627.3	616.7	614.1
57.5°	535.9	529.0	527.7	517.4	516.4
60°	471.5	467.6	467.5	458.3	458.3
62.5°	416.5	413.7	415.8	409.7	408.6
65°	344.7	342.1	346.0	343.4	343.4
67.5°	287.9	287.9	290.3	289.2	289.2
70°	256.2	256.2	257.5	257.5	257.5
72.5°	227.7	226.7	230.1	230.0	229.0
75°	186.2	186.2	186.2	187.5	187.5
77.5°	145.0	145.3	146.3	146.0	145.0
80°	117.5	118.8	118.9	117.5	117.5
82.5°	90.1	91.4	91.4	91.1	90.1
85°	47.5	50.1	52.8	52.8	52.8
87.5°	13.9	18.4	22.7	21.9	20.8
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)