

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: P563856

Luminaire Tested: **SQ4-PR1-025U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563856  
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-050D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

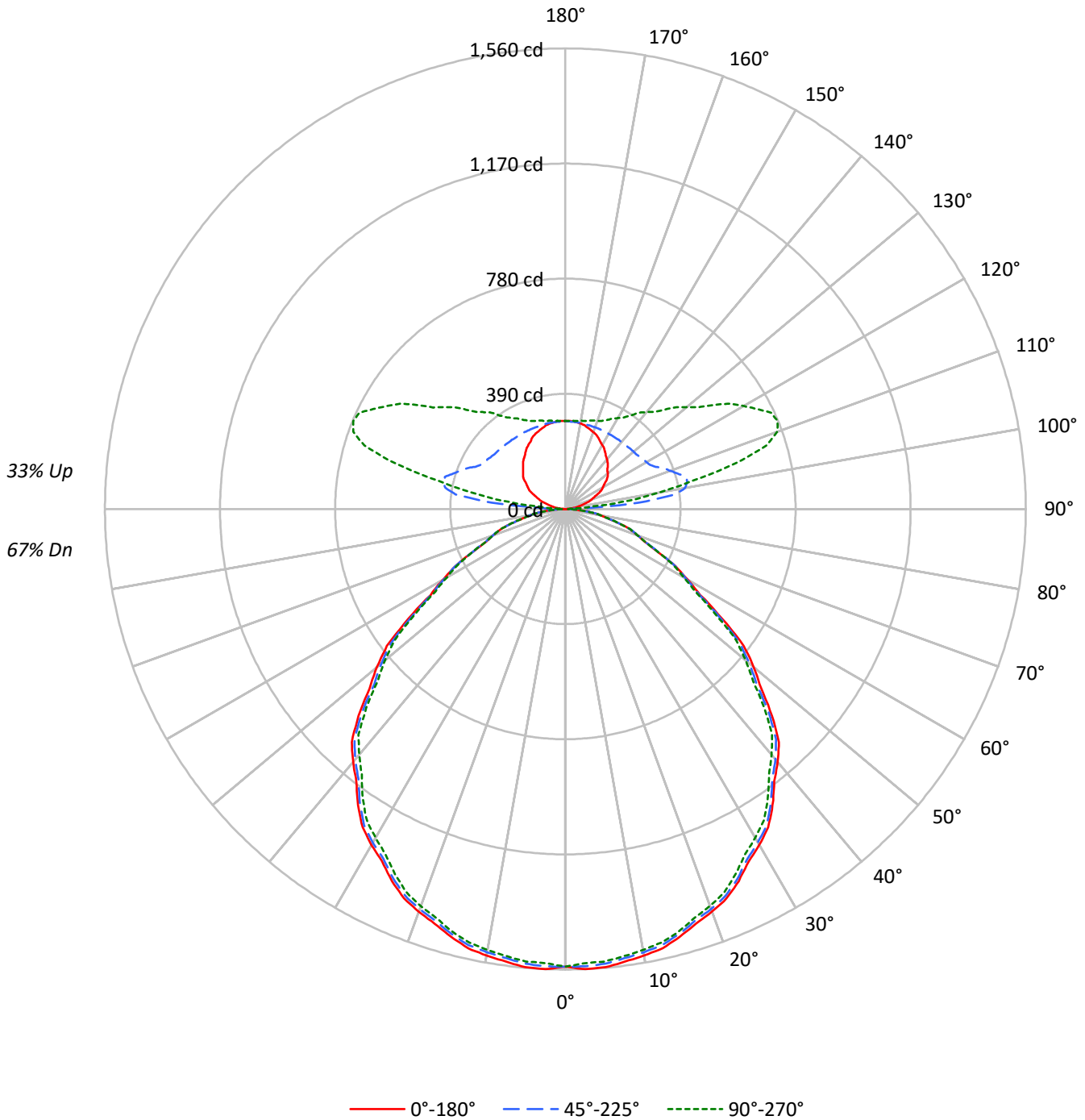
Lumens per Lamp: N/A  
Luminaire Lumens: 5809.1 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.7  
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	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	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	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	62	52	44	39	46	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	24
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	35	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°	7152	7152	7152
5°	7216	7160	7123
10°	7193	7143	7106
15°	7162	7117	7079
20°	7126	7080	7027
25°	7076	7028	6946
30°	6999	6949	6850
35°	6896	6836	6738
40°	6739	6666	6546
45°	6464	6351	6220
50°	5980	5836	5721
55°	5220	5101	4994
60°	4398	4361	4275
65°	3804	3819	3790
70°	3495	3512	3512
75°	3356	3356	3379
80°	3156	3193	3156
85°	2546	2826	2826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	2.5
10°-20°	419.5	7.2
20°-30°	632.7	10.9
30°-40°	753.8	13.0
40°-50°	743.2	12.8
50°-60°	568.0	9.8
60°-70°	351.5	6.1
70°-80°	199.6	3.4
80°-90°	62.3	1.1
90°-100°	145.3	2.5
100°-110°	381.9	6.6
110°-120°	396.0	6.8
120°-130°	317.6	5.5
130°-140°	249.2	4.3
140°-150°	191.3	3.3
150°-160°	137.8	2.4
160°-170°	84.3	1.5
170°-180°	28.5	0.5
0°-30°	1198.7	20.6
0°-40°	1952.6	33.6
0°-60°	3263.8	56.2
0°-90°	3877.2	66.7
90°-120°	923.2	15.9
90°-150°	1681.3	28.9
90°-180°	1932.0	33.3
0°-180°	5809.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1558	1541	1546	1541	1538	148
15°	1500	1484	1490	1485	1482	423
25°	1390	1373	1381	1366	1365	640
35°	1224	1210	1214	1198	1196	764
45°	991	978	974	956	953	759
55°	649	638	634	624	621	582
65°	348	346	350	347	347	353
75°	188	188	188	190	190	199
85°	48	51	53	53	53	56
90°	2	6	15	8	8	4
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1550.3	1550.3	1550.3	1550.3	1550.3
2.5°	1559.9	1546.4	1550.3	1546.9	1539.6
5°	1558.3	1541.4	1546.3	1540.9	1538.3
7.5°	1546.3	1529.6	1534.6	1529.2	1527.6
10°	1535.6	1520.0	1524.9	1519.5	1516.9
12.5°	1523.9	1507.2	1513.2	1506.7	1504.1
15°	1499.6	1483.9	1490.2	1484.8	1482.2
17.5°	1472.9	1456.2	1462.5	1456.2	1452.8
20°	1451.5	1435.8	1442.2	1432.8	1431.5
22.5°	1428.0	1412.3	1418.7	1406.1	1405.8
25°	1390.1	1373.1	1380.7	1366.0	1364.7
27.5°	1344.9	1329.3	1335.6	1320.6	1319.0
30°	1314.0	1298.3	1304.6	1288.5	1285.9
32.5°	1278.7	1264.1	1269.4	1253.3	1251.7
35°	1224.5	1210.1	1213.8	1197.8	1196.5
37.5°	1162.8	1149.7	1151.9	1134.2	1132.9
40°	1119.0	1105.9	1107.0	1088.3	1087.0
42.5°	1070.9	1057.9	1056.8	1038.1	1036.7
45°	990.8	977.8	973.5	956.0	953.4
47.5°	899.5	886.4	878.4	864.2	862.4
50°	833.2	820.2	813.2	801.1	797.2
52.5°	761.7	748.6	742.7	731.7	727.8
55°	649.0	638.5	634.3	623.5	620.9
57.5°	541.9	534.8	533.6	523.2	522.1
60°	476.7	472.8	472.7	463.4	463.4
62.5°	421.2	418.3	420.4	414.2	413.2
65°	348.5	345.9	349.9	347.2	347.2
67.5°	291.1	291.1	293.5	292.4	292.4
70°	259.1	259.1	260.4	260.4	260.4
72.5°	230.2	229.2	232.6	232.6	231.5
75°	188.3	188.3	188.3	189.6	189.6
77.5°	146.6	146.9	148.0	147.7	146.6
80°	118.8	120.1	120.2	118.8	118.8
82.5°	91.1	92.4	92.4	92.1	91.1
85°	48.1	50.7	53.4	53.4	53.4
87.5°	14.3	19.2	24.4	22.9	21.8
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)