

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: P564143

Luminaire Tested: **SQ4-PR1-0U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564143  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-050D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

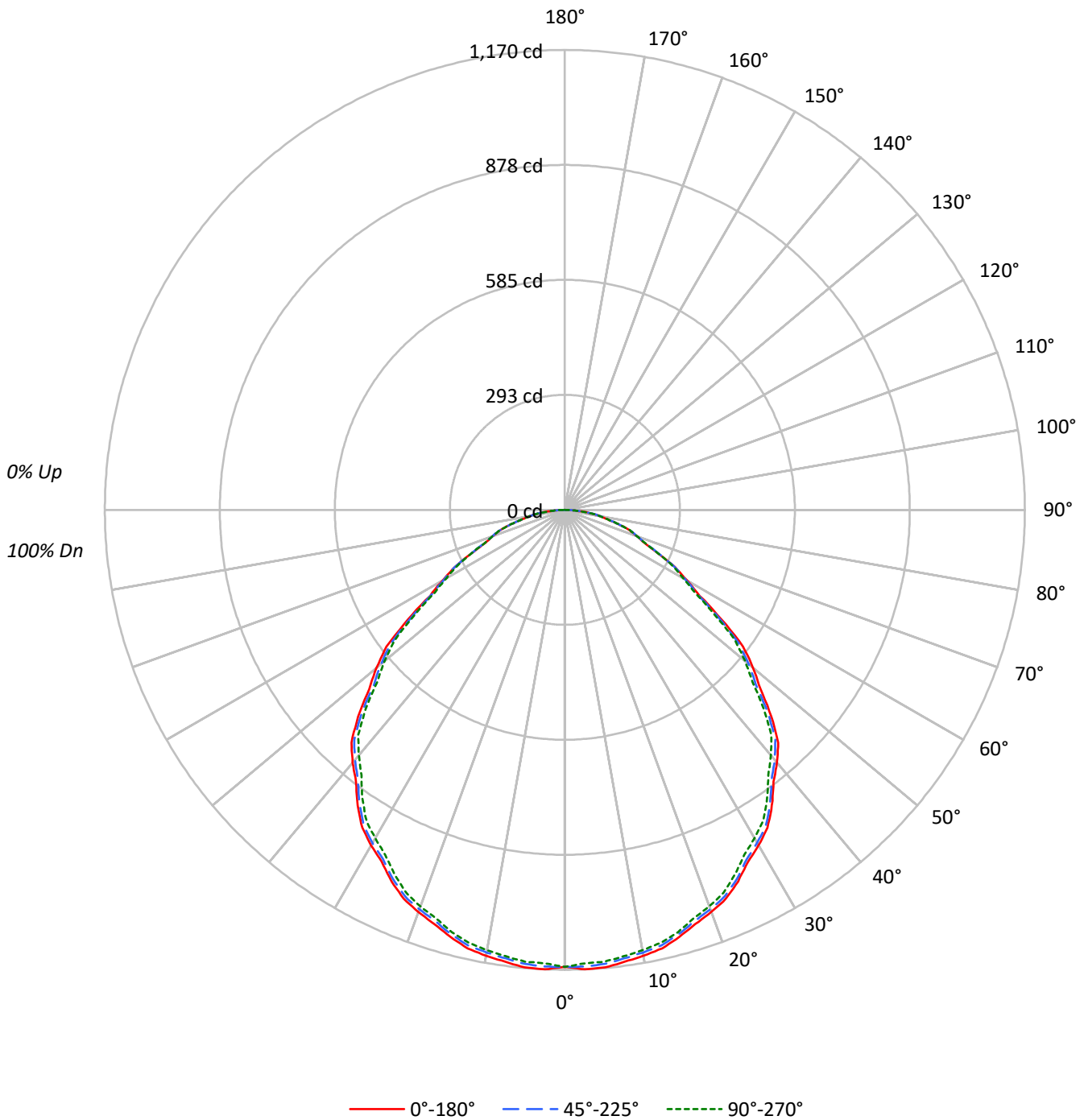
Lumens per Lamp: N/A  
Luminaire Lumens: 2906.7 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.7  
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

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

	0°	45°	90°
0°	7152	7152	7152
5°	7216	7160	7123
10°	7193	7143	7106
15°	7162	7117	7079
20°	7125	7080	7027
25°	7076	7028	6946
30°	6999	6950	6849
35°	6896	6836	6738
40°	6739	6666	6545
45°	6464	6351	6220
50°	5980	5836	5721
55°	5219	5101	4994
60°	4398	4361	4275
65°	3804	3819	3790
70°	3494	3512	3512
75°	3356	3356	3379
80°	3156	3191	3156
85°	2548	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.0	3.8
10°-20°	314.6	10.8
20°-30°	474.5	16.3
30°-40°	565.4	19.5
40°-50°	557.4	19.2
50°-60°	426.0	14.7
60°-70°	263.6	9.1
70°-80°	149.7	5.2
80°-90°	45.5	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	899.0	30.9
0°-40°	1464.4	50.4
0°-60°	2447.8	84.2
0°-90°	2906.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2906.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1169	1156	1160	1156	1154	111
15°	1125	1113	1118	1114	1112	317
25°	1043	1030	1036	1024	1024	480
35°	918	908	910	898	897	573
45°	743	733	730	717	715	569
55°	487	479	476	468	466	436
65°	261	259	262	260	260	265
75°	141	141	141	142	142	149
85°	36	38	40	40	40	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1162.7	1162.7	1162.7	1162.7	1162.7
2.5°	1169.9	1159.8	1162.7	1160.2	1154.7
5°	1168.7	1156.0	1159.7	1155.7	1153.7
7.5°	1159.7	1147.2	1150.9	1146.9	1145.7
10°	1151.7	1140.0	1143.7	1139.7	1137.7
12.5°	1142.9	1130.4	1134.9	1130.0	1128.1
15°	1124.7	1112.9	1117.7	1113.6	1111.7
17.5°	1104.7	1092.1	1096.8	1092.2	1089.6
20°	1088.6	1076.9	1081.6	1074.6	1073.6
22.5°	1071.0	1059.2	1064.0	1054.6	1054.4
25°	1042.6	1029.8	1035.5	1024.5	1023.5
27.5°	1008.7	997.0	1001.7	990.5	989.3
30°	985.5	973.7	978.5	966.4	964.4
32.5°	959.0	948.1	952.0	940.0	938.8
35°	918.4	907.6	910.4	898.3	897.3
37.5°	872.1	862.3	863.9	850.6	849.7
40°	839.3	829.5	830.2	816.2	815.2
42.5°	803.2	793.4	792.6	778.5	777.6
45°	743.1	733.3	730.1	717.0	715.1
47.5°	674.6	664.8	658.8	648.1	646.8
50°	624.9	615.1	609.9	600.8	597.9
52.5°	571.3	561.5	557.0	548.8	545.8
55°	486.7	478.9	475.7	467.7	465.7
57.5°	406.4	401.1	400.2	392.4	391.6
60°	357.5	354.6	354.5	347.5	347.5
62.5°	315.9	313.7	315.3	310.6	309.9
65°	261.4	259.4	262.4	260.4	260.4
67.5°	218.3	218.3	220.1	219.3	219.3
70°	194.3	194.3	195.3	195.3	195.3
72.5°	172.7	171.9	174.5	174.4	173.7
75°	141.2	141.2	141.2	142.2	142.2
77.5°	110.0	110.2	111.0	110.7	110.0
80°	89.1	90.1	90.1	89.1	89.1
82.5°	68.3	69.3	69.3	69.1	68.3
85°	36.1	38.0	40.1	40.1	40.1
87.5°	10.4	13.5	16.0	16.0	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)