

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: P564600

Luminaire Tested: **SQ4-PW1-025U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564600  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-025U-125D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

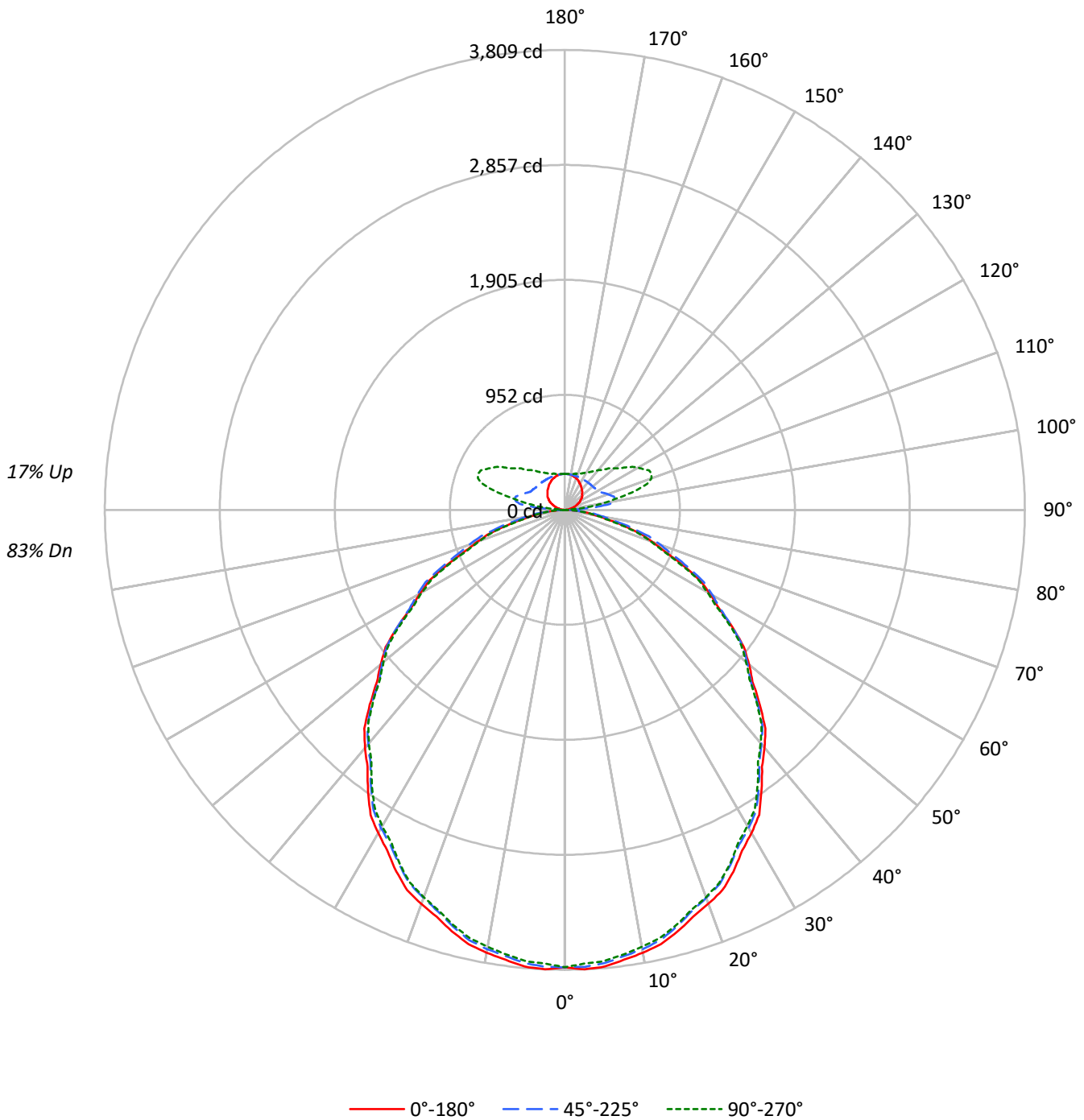
Lumens per Lamp: N/A  
Luminaire Lumens: 11570.3 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 101.6  
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

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

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17446	17305	17211
15°	17260	17069	17005
20°	17054	16792	16759
25°	16816	16510	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14891	14696	14631
50°	14274	14155	14058
55°	13607	13607	13393
60°	12777	13024	12562
65°	11693	12276	11401
70°	10307	11297	10038
75°	8803	10111	8566
80°	6827	8512	6915
85°	4414	6537	5828



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.7	3.1
10°-20°	1007.0	8.7
20°-30°	1493.7	12.9
30°-40°	1747.8	15.1
40°-50°	1740.0	15.0
50°-60°	1502.5	13.0
60°-70°	1081.5	9.3
70°-80°	567.2	4.9
80°-90°	142.2	1.2
90°-100°	145.3	1.3
100°-110°	381.9	3.3
110°-120°	396.0	3.4
120°-130°	317.6	2.7
130°-140°	249.2	2.2
140°-150°	191.3	1.7
150°-160°	137.8	1.2
160°-170°	84.3	0.7
170°-180°	28.5	0.2
0°-30°	2857.3	24.7
0°-40°	4605.1	39.8
0°-60°	7847.5	67.8
0°-90°	9638.5	83.3
90°-120°	923.2	8.0
90°-150°	1681.3	14.5
90°-180°	1932.0	16.7
0°-180°	11570.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3788	3788	3788	3788	3788	
5°	3798	3755	3768	3758	3751	360
15°	3614	3568	3574	3567	3561	1019
25°	3304	3248	3244	3224	3234	1519
35°	2840	2801	2800	2773	2783	1775
45°	2283	2263	2253	2246	2243	1761
55°	1692	1689	1692	1668	1665	1510
65°	1071	1104	1125	1080	1044	1062
75°	494	540	567	530	481	529
85°	83	110	124	117	110	110
90°	2	6	15	8	8	5
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°	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	3809.0	3777.7	3787.7	3779.3	3761.0
5°	3797.7	3755.3	3767.7	3757.5	3751.0
7.5°	3759.0	3719.8	3728.9	3718.2	3714.3
10°	3724.3	3685.1	3694.2	3680.7	3674.2
12.5°	3684.2	3642.5	3651.5	3638.1	3634.2
15°	3614.1	3568.5	3574.1	3567.3	3560.7
17.5°	3532.7	3486.4	3487.3	3476.6	3475.3
20°	3474.0	3425.0	3420.6	3407.4	3413.9
22.5°	3409.9	3358.4	3353.8	3335.4	3344.5
25°	3303.8	3248.3	3243.7	3223.9	3233.7
27.5°	3181.0	3126.2	3126.3	3098.5	3108.9
30°	3090.2	3038.0	3043.5	3010.4	3023.5
32.5°	2994.1	2947.1	2950.0	2917.0	2930.0
35°	2839.9	2800.8	2799.9	2773.4	2783.2
37.5°	2682.4	2647.8	2642.4	2627.1	2629.7
40°	2572.9	2543.6	2532.9	2522.9	2522.9
42.5°	2458.2	2431.4	2420.8	2413.4	2410.8
45°	2282.6	2263.0	2252.6	2245.8	2242.6
47.5°	2109.1	2090.8	2081.7	2077.0	2073.7
50°	1988.9	1975.9	1972.3	1962.2	1958.9
52.5°	1868.8	1861.0	1857.5	1844.7	1841.4
55°	1691.9	1688.7	1691.9	1668.5	1665.2
57.5°	1507.7	1512.9	1523.7	1492.2	1484.4
60°	1384.9	1398.0	1411.6	1374.6	1361.6
62.5°	1259.4	1280.3	1299.5	1257.0	1238.8
65°	1071.2	1103.9	1124.6	1080.4	1044.5
67.5°	889.7	930.1	955.1	907.5	867.0
70°	764.2	809.9	837.6	789.9	744.2
72.5°	654.8	705.7	728.2	683.1	637.4
75°	493.9	539.6	567.3	529.5	480.6
77.5°	350.4	393.5	416.5	383.5	343.1
80°	257.0	302.6	320.4	292.9	260.3
82.5°	182.2	220.1	232.3	215.7	193.6
85°	83.4	109.5	123.5	116.7	110.1
87.5°	21.7	40.8	53.8	52.3	54.9
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)