

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: P564599

Luminaire Tested: **SQ4-PW1-025U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564599  
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-6  
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**

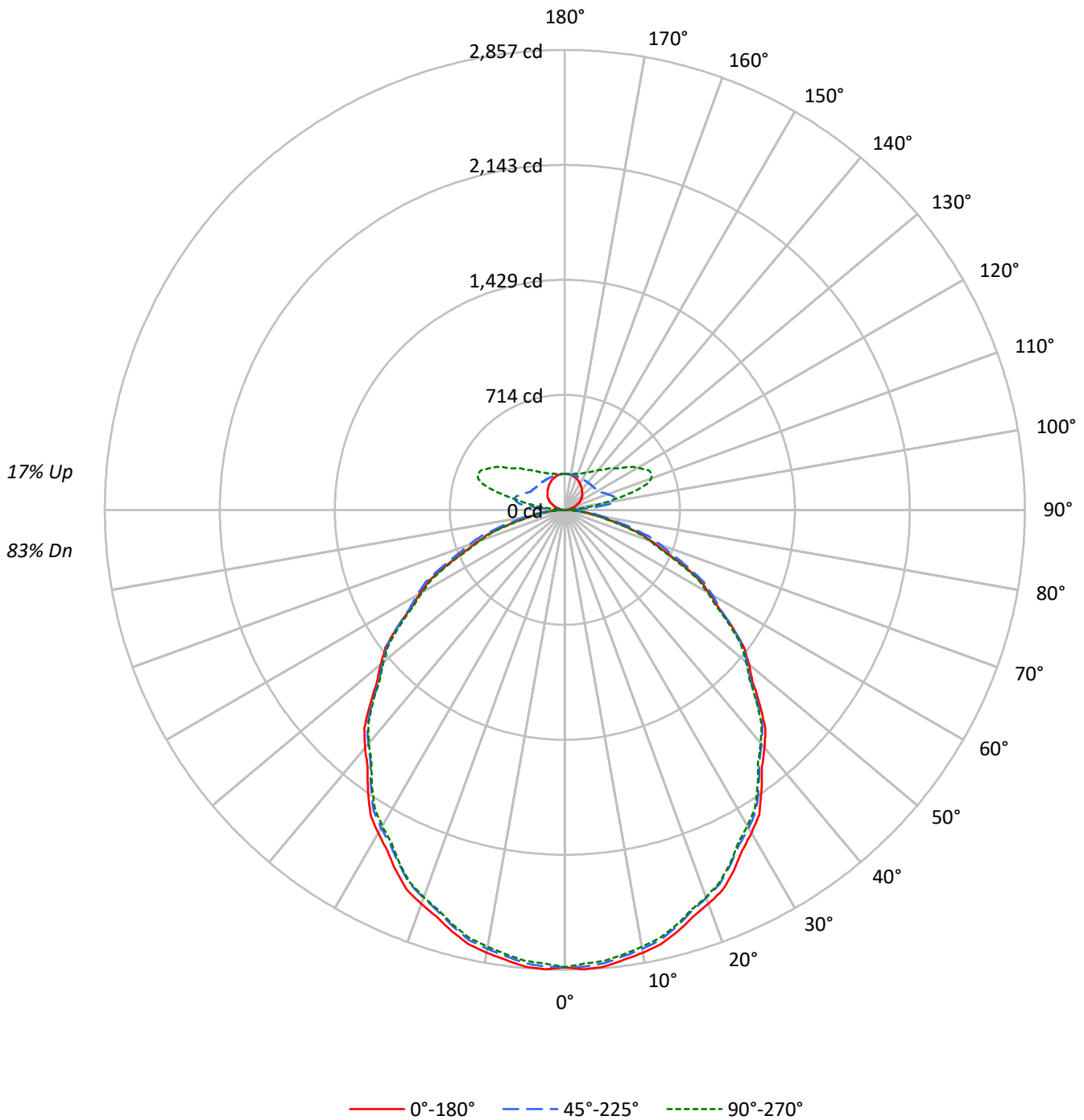
Lumens per Lamp: N/A  
Luminaire Lumens: 8677.7 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77.9  
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°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16759
25°	16816	16511	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14892	14695	14630
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10308	11297	10037
75°	8803	10112	8565
80°	6826	8512	6914
85°	4418	6535	5829



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.5	3.1
10°-20°	755.2	8.7
20°-30°	1120.3	12.9
30°-40°	1310.8	15.1
40°-50°	1305.0	15.0
50°-60°	1126.9	13.0
60°-70°	811.2	9.3
70°-80°	425.4	4.9
80°-90°	106.7	1.2
90°-100°	108.9	1.3
100°-110°	286.4	3.3
110°-120°	297.0	3.4
120°-130°	238.2	2.7
130°-140°	186.9	2.2
140°-150°	143.5	1.7
150°-160°	103.3	1.2
160°-170°	63.2	0.7
170°-180°	21.4	0.2
0°-30°	2143.0	24.7
0°-40°	3453.8	39.8
0°-60°	5885.6	67.8
0°-90°	7228.8	83.3
90°-120°	692.3	8.0
90°-150°	1261.0	14.5
90°-180°	1449.0	16.7
0°-180°	8677.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2841	2841	2841	2841	2841	
5°	2848	2816	2826	2818	2813	270
15°	2711	2676	2681	2676	2671	764
25°	2478	2436	2433	2418	2425	1139
35°	2130	2101	2100	2080	2087	1332
45°	1712	1697	1689	1684	1682	1321
55°	1269	1266	1269	1251	1249	1132
65°	803	828	844	810	783	796
75°	370	405	426	397	360	397
85°	63	82	93	88	83	83
90°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2840.8	2840.8	2840.8	2840.8	2840.8
2.5°	2856.8	2833.3	2840.8	2834.4	2820.7
5°	2848.3	2816.5	2825.7	2818.1	2813.2
7.5°	2819.2	2789.9	2796.7	2788.6	2785.7
10°	2793.2	2763.8	2770.7	2760.6	2755.7
12.5°	2763.2	2731.8	2738.6	2728.6	2725.6
15°	2710.6	2676.3	2680.6	2675.5	2670.6
17.5°	2649.5	2614.8	2615.5	2607.5	2606.5
20°	2605.5	2568.8	2565.4	2555.5	2560.4
22.5°	2557.4	2518.8	2515.4	2501.5	2508.4
25°	2477.8	2436.2	2432.8	2417.9	2425.3
27.5°	2385.7	2344.6	2344.7	2323.8	2331.7
30°	2317.7	2278.5	2282.6	2257.8	2267.6
32.5°	2245.6	2210.3	2212.5	2187.7	2197.5
35°	2129.9	2100.6	2099.9	2080.1	2087.4
37.5°	2011.8	1985.9	1981.8	1970.3	1972.3
40°	1929.7	1907.7	1899.7	1892.2	1892.2
42.5°	1843.6	1823.5	1815.6	1810.0	1808.1
45°	1712.0	1697.3	1689.4	1684.4	1681.9
47.5°	1581.8	1568.1	1561.3	1557.7	1555.3
50°	1491.7	1481.9	1479.2	1471.6	1469.2
52.5°	1401.6	1395.7	1393.1	1383.5	1381.1
55°	1269.0	1266.5	1269.0	1251.4	1248.9
57.5°	1130.8	1134.7	1142.8	1119.1	1113.3
60°	1038.7	1048.5	1058.7	1031.0	1021.2
62.5°	944.6	960.2	974.6	942.8	929.1
65°	803.4	827.9	843.5	810.3	783.4
67.5°	667.3	697.6	716.3	680.6	650.2
70°	573.2	607.4	628.2	592.4	558.1
72.5°	491.1	529.2	546.1	512.3	478.0
75°	370.4	404.7	425.5	397.1	360.4
77.5°	262.8	295.1	312.4	287.6	257.3
80°	192.7	227.0	240.3	219.7	195.2
82.5°	136.7	165.0	174.2	161.8	145.2
85°	62.6	82.1	92.6	87.5	82.6
87.5°	16.3	30.6	40.3	39.2	41.2
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)