

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: P564705

Luminaire Tested: **SQ4-PW1-050U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564705  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

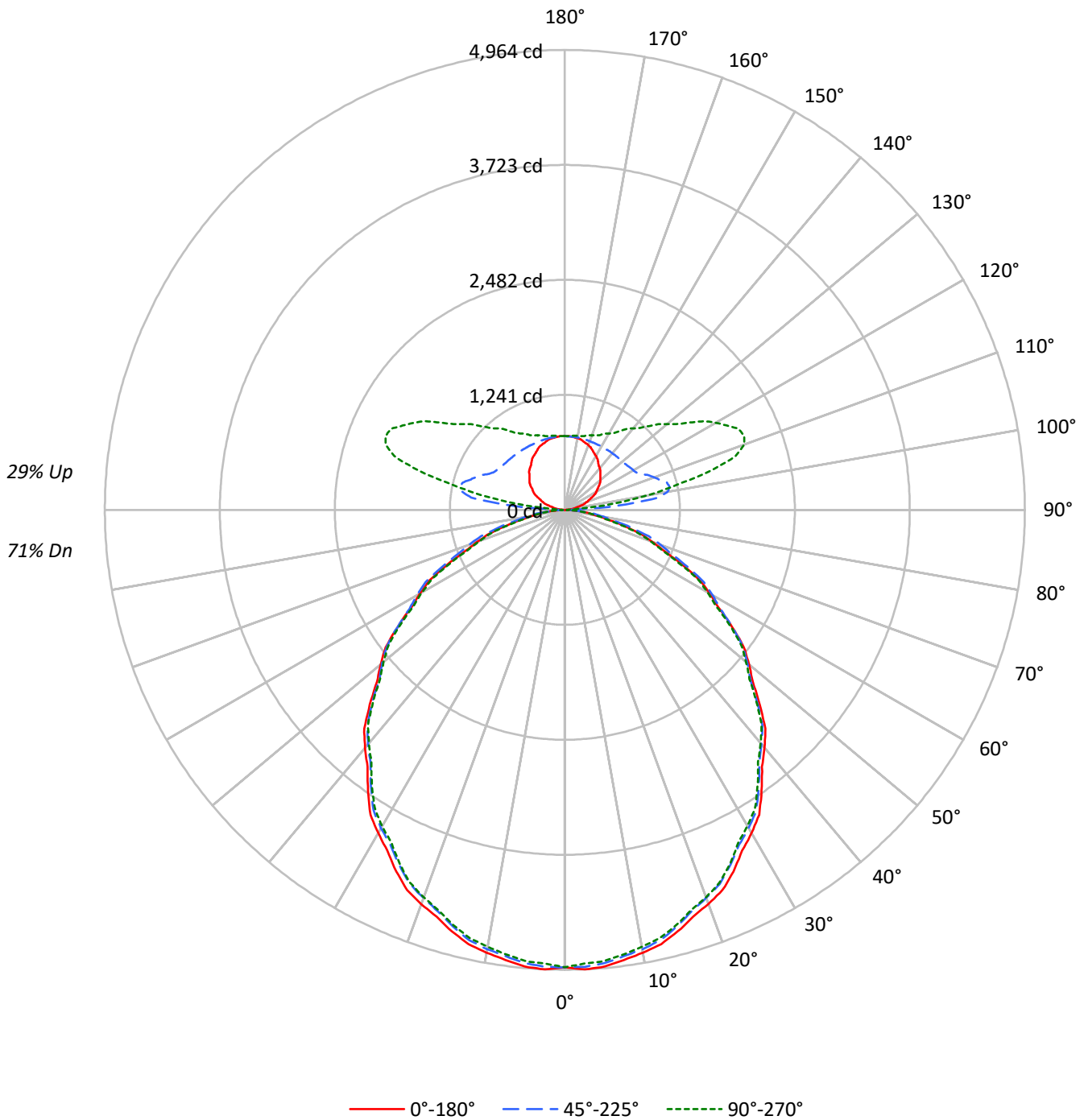
Lumens per Lamp: N/A  
Luminaire Lumens: 17755.4 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 167  
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14818	14591	14562
25°	14612	14346	14302
30°	14303	14086	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12298	12215
55°	11824	11824	11637
60°	11102	11316	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7649	8786	7442
80°	5931	7394	6009
85°	3836	5678	5064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.9	2.6
10°-20°	1312.4	7.4
20°-30°	1946.8	11.0
30°-40°	2277.9	12.8
40°-50°	2267.7	12.8
50°-60°	1958.3	11.0
60°-70°	1409.6	7.9
70°-80°	739.2	4.2
80°-90°	186.3	1.0
90°-100°	381.7	2.2
100°-110°	1037.0	5.8
110°-120°	1066.3	6.0
120°-130°	852.5	4.8
130°-140°	669.8	3.8
140°-150°	513.6	2.9
150°-160°	369.4	2.1
160°-170°	225.9	1.3
170°-180°	76.1	0.4
0°-30°	3724.1	21.0
0°-40°	6002.0	33.8
0°-60°	10228.0	57.6
0°-90°	12563.1	70.8
90°-120°	2485.0	14.0
90°-150°	4521.0	25.5
90°-180°	5192.0	29.2
0°-180°	17755.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4937	4937	4937	4937	4937	
5°	4950	4894	4910	4897	4889	469
15°	4710	4651	4658	4649	4641	1328
25°	4306	4234	4228	4202	4215	1980
35°	3701	3650	3649	3615	3627	2314
45°	2975	2950	2936	2927	2923	2295
55°	2205	2201	2205	2175	2170	1968
65°	1396	1439	1466	1408	1361	1384
75°	644	703	739	690	626	690
85°	109	143	161	152	144	143
90°	3	10	18	23	23	8
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4936.6	4936.6	4936.6	4936.6	4936.6
2.5°	4964.5	4923.6	4936.6	4925.6	4901.8
5°	4949.7	4894.4	4910.5	4897.3	4888.8
7.5°	4899.2	4848.2	4860.1	4846.0	4840.9
10°	4854.0	4803.0	4814.8	4797.3	4788.7
12.5°	4801.8	4747.4	4759.2	4741.7	4736.6
15°	4710.5	4650.9	4658.3	4649.4	4640.9
17.5°	4604.3	4543.9	4545.2	4531.2	4529.5
20°	4527.8	4464.0	4458.2	4441.0	4449.5
22.5°	4444.3	4377.1	4371.2	4347.1	4359.0
25°	4306.0	4233.7	4227.7	4201.9	4214.6
27.5°	4145.9	4074.4	4074.6	4038.3	4051.9
30°	4027.6	3959.5	3966.7	3923.6	3940.6
32.5°	3902.3	3841.1	3844.9	3801.8	3818.8
35°	3701.4	3650.3	3649.2	3614.7	3627.4
37.5°	3496.1	3451.0	3443.9	3424.0	3427.4
40°	3353.4	3315.2	3301.2	3288.2	3288.2
42.5°	3203.8	3168.9	3155.1	3145.4	3142.0
45°	2975.0	2949.5	2935.9	2927.1	2922.8
47.5°	2748.9	2725.0	2713.2	2707.0	2702.7
50°	2592.3	2575.3	2570.5	2557.4	2553.1
52.5°	2435.7	2425.5	2420.9	2404.3	2400.0
55°	2205.2	2200.9	2205.2	2174.6	2170.4
57.5°	1965.1	1971.9	1986.0	1944.8	1934.6
60°	1805.0	1822.0	1839.8	1791.6	1774.6
62.5°	1641.5	1668.7	1693.7	1638.3	1614.5
65°	1396.2	1438.7	1465.8	1408.2	1361.4
67.5°	1159.6	1212.3	1244.8	1182.7	1130.0
70°	996.0	1055.6	1091.7	1029.5	969.9
72.5°	853.4	919.7	949.0	890.3	830.7
75°	643.7	703.3	739.4	690.1	626.3
77.5°	456.7	512.8	542.8	499.9	447.1
80°	334.9	394.4	417.5	381.8	339.3
82.5°	237.5	286.8	302.7	281.2	252.3
85°	108.7	142.8	160.9	152.0	143.5
87.5°	28.3	53.7	69.7	70.8	74.2
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)