

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: P565083

Luminaire Tested: **SQ4-PW1-125U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565083  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-125D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

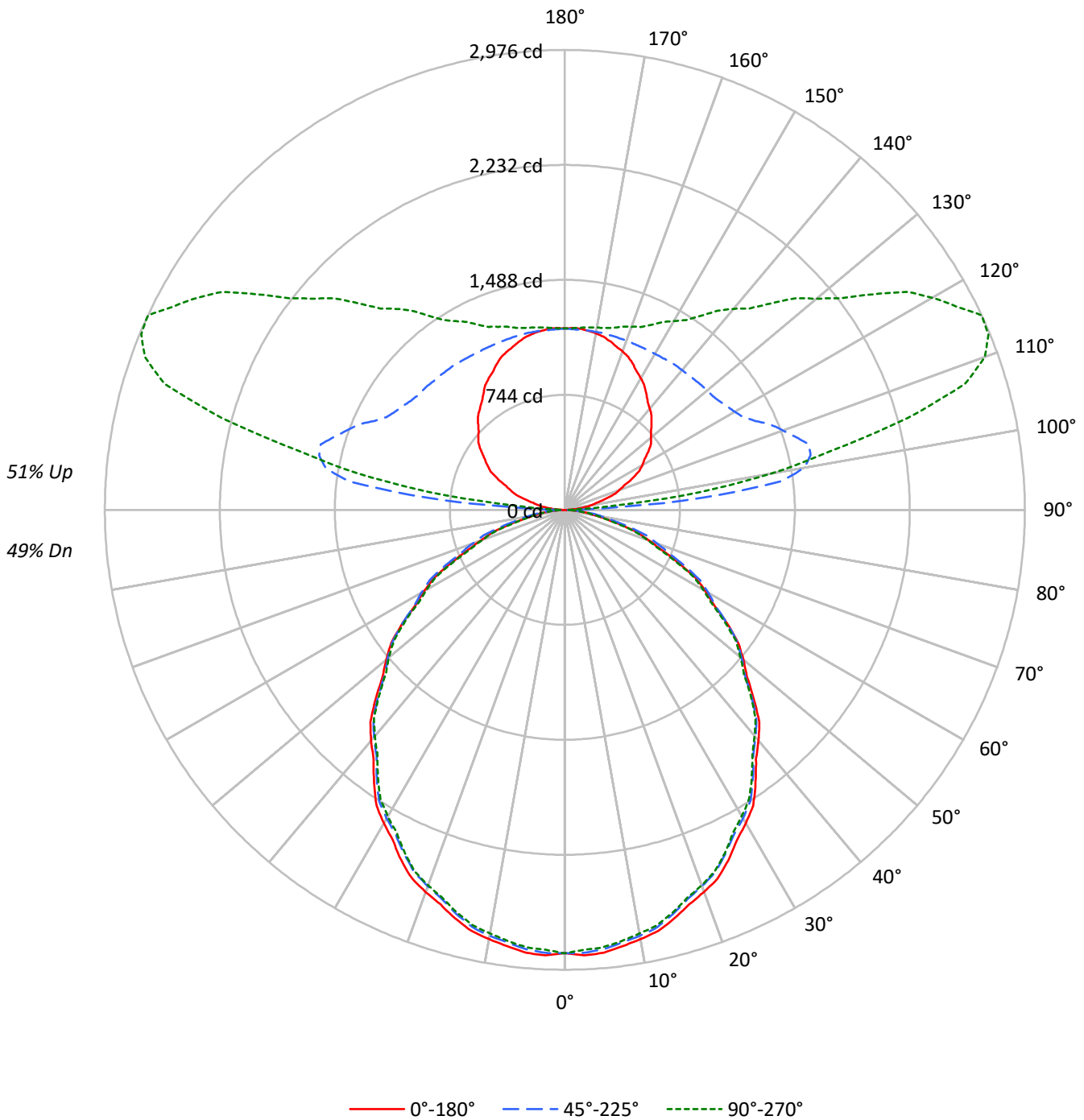
Lumens per Lamp: N/A  
Luminaire Lumens: 14877.5 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 117.2  
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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	17648	17648	17648
5°	17763	17623	17544
10°	17621	17479	17384
15°	17434	17241	17176
20°	17226	16961	16928
25°	16986	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15346
45°	15042	14843	14778
50°	14418	14297	14200
55°	13744	13744	13528
60°	12906	13155	12688
65°	11811	12400	11517
70°	10411	11411	10139
75°	8893	10214	8650
80°	6896	8597	6985
85°	4460	6599	5886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.2	1.8
10°-20°	762.8	5.1
20°-30°	1131.5	7.6
30°-40°	1324.0	8.9
40°-50°	1318.1	8.9
50°-60°	1138.2	7.7
60°-70°	819.3	5.5
70°-80°	429.7	2.9
80°-90°	109.3	0.7
90°-100°	548.9	3.7
100°-110°	1478.5	9.9
110°-120°	1551.7	10.4
120°-130°	1259.2	8.5
130°-140°	987.5	6.6
140°-150°	758.2	5.1
150°-160°	545.1	3.7
160°-170°	333.0	2.2
170°-180°	112.3	0.8
0°-30°	2164.6	14.5
0°-40°	3488.6	23.4
0°-60°	5944.9	40.0
0°-90°	7303.1	49.1
90°-120°	3579.1	24.1
90°-150°	6584.0	44.3
90°-180°	7574.0	50.9
0°-180°	14877.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2869	2869	2869	2869	2869	
5°	2877	2845	2854	2846	2842	272
15°	2738	2703	2708	2702	2697	772
25°	2503	2461	2457	2442	2450	1151
35°	2151	2122	2121	2101	2108	1345
45°	1729	1714	1706	1701	1699	1334
55°	1282	1279	1282	1264	1262	1144
65°	812	836	852	818	791	804
75°	374	409	430	401	364	401
85°	63	83	94	88	83	83
90°	3	9	18	19	19	8
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	



TEST NUMBER: P565083

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2885.5	2861.8	2869.3	2863.0	2849.1
5°	2876.9	2844.8	2854.2	2846.5	2841.5
7.5°	2847.6	2817.9	2824.8	2816.7	2813.7
10°	2821.3	2791.6	2798.6	2788.3	2783.4
12.5°	2791.0	2759.3	2766.2	2756.0	2753.1
15°	2737.9	2703.3	2707.5	2702.4	2697.4
17.5°	2676.2	2641.1	2641.8	2633.7	2632.7
20°	2631.7	2594.6	2591.3	2581.3	2586.2
22.5°	2583.2	2544.1	2540.7	2526.7	2533.6
25°	2502.8	2460.8	2457.3	2442.3	2449.7
27.5°	2409.7	2368.2	2368.3	2347.2	2355.1
30°	2341.0	2301.4	2305.6	2280.5	2290.4
32.5°	2268.2	2232.6	2234.8	2209.7	2219.6
35°	2151.4	2121.7	2121.0	2101.0	2108.4
37.5°	2032.1	2005.8	2001.7	1990.1	1992.1
40°	1949.1	1926.9	1918.8	1911.2	1911.2
42.5°	1862.2	1841.9	1833.9	1828.2	1826.3
45°	1729.2	1714.4	1706.4	1701.3	1698.9
47.5°	1597.7	1583.9	1577.0	1573.4	1570.9
50°	1506.7	1496.8	1494.1	1486.4	1484.0
52.5°	1415.7	1409.8	1407.1	1397.5	1395.0
55°	1281.7	1279.3	1281.7	1264.0	1261.5
57.5°	1142.2	1146.1	1154.3	1130.4	1124.5
60°	1049.1	1059.0	1069.4	1041.3	1031.4
62.5°	954.1	969.9	984.4	952.3	938.4
65°	811.5	836.2	852.0	818.5	791.3
67.5°	674.0	704.6	723.5	687.4	656.8
70°	578.9	613.5	634.5	598.4	563.8
72.5°	496.0	534.6	551.6	517.5	482.9
75°	374.2	408.8	429.8	401.1	364.0
77.5°	265.4	298.1	315.5	290.5	259.9
80°	194.7	229.3	242.7	221.9	197.2
82.5°	138.0	166.7	176.0	163.4	146.6
85°	63.2	83.0	93.5	88.4	83.4
87.5°	16.8	31.8	42.0	42.4	44.3
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)