

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: P564328

Luminaire Tested: **SQ4-PR1-100U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564328  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-125D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

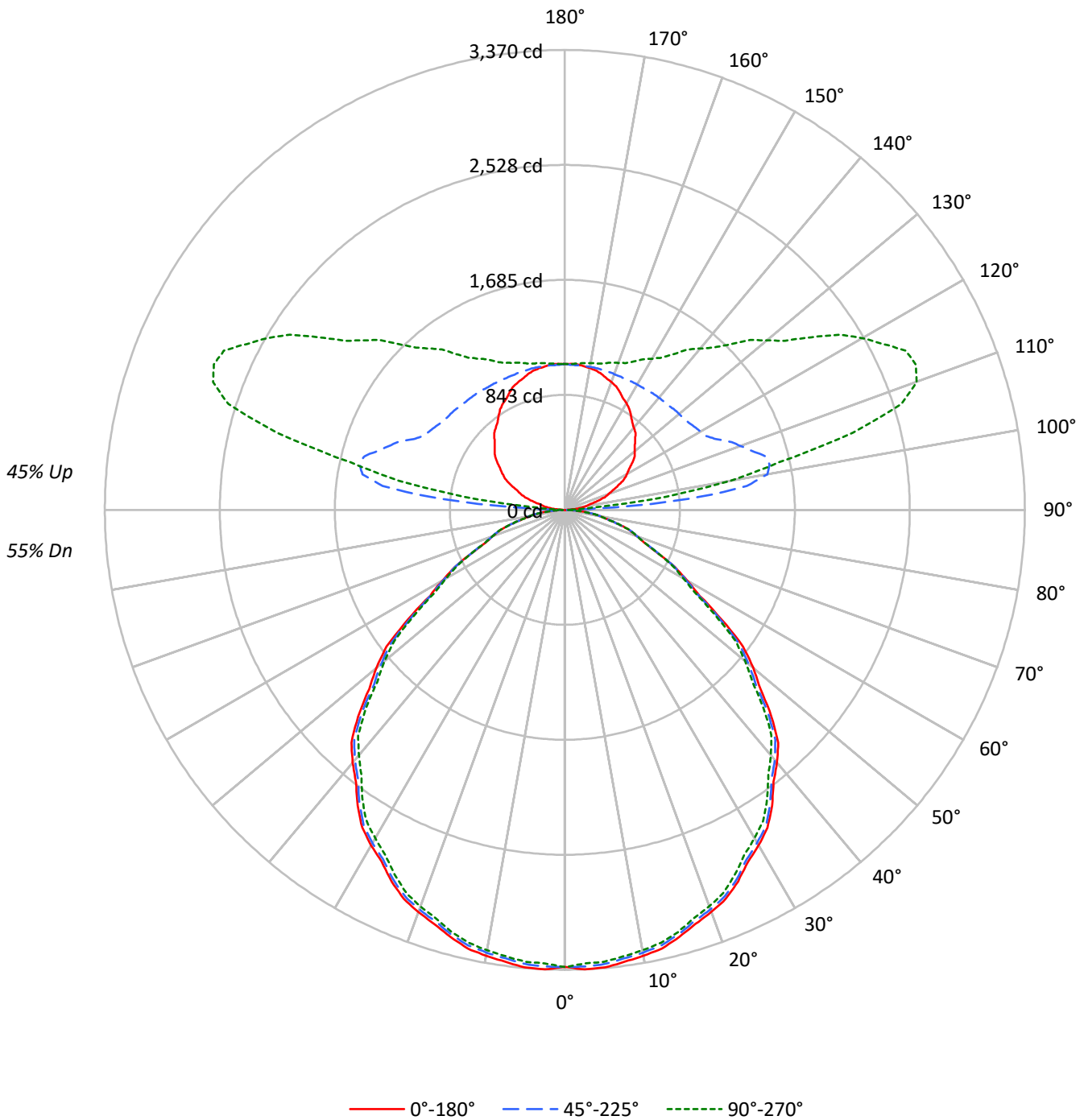
Lumens per Lamp: N/A  
Luminaire Lumens: 15319.4 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 140.6  
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

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

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15472	15376	15293
20°	15395	15295	15182
25°	15286	15183	15007
30°	15121	15013	14799
35°	14898	14768	14557
40°	14558	14402	14141
45°	13965	13720	13438
50°	12920	12609	12360
55°	11277	11021	10789
60°	9502	9423	9236
65°	8219	8250	8188
70°	7549	7588	7588
75°	7251	7251	7302
80°	6822	6896	6822
85°	5499	6108	6108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.7	2.1
10°-20°	906.2	5.9
20°-30°	1366.8	8.9
30°-40°	1628.6	10.6
40°-50°	1605.7	10.5
50°-60°	1227.1	8.0
60°-70°	759.4	5.0
70°-80°	431.3	2.8
80°-90°	133.4	0.9
90°-100°	500.5	3.3
100°-110°	1381.7	9.0
110°-120°	1425.0	9.3
120°-130°	1145.1	7.5
130°-140°	899.9	5.9
140°-150°	690.2	4.5
150°-160°	496.0	3.2
160°-170°	303.4	2.0
170°-180°	102.3	0.7
0°-30°	2589.8	16.9
0°-40°	4218.4	27.5
0°-60°	7051.2	46.0
0°-90°	8375.3	54.7
90°-120°	3307.2	21.6
90°-150°	6042.4	39.4
90°-180°	6944.0	45.3
0°-180°	15319.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3349	3349	3349	3349	3349	
5°	3367	3330	3341	3329	3323	319
15°	3240	3206	3220	3208	3202	914
25°	3003	2966	2983	2951	2948	1382
35°	2646	2614	2622	2588	2585	1651
45°	2141	2112	2103	2066	2060	1640
55°	1402	1380	1370	1347	1342	1256
65°	753	747	756	750	750	763
75°	407	407	407	410	410	430
85°	104	110	115	115	115	121
90°	3	7	14	15	17	9
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3349.4	3349.4	3349.4	3349.4	3349.4
2.5°	3370.1	3340.8	3349.4	3342.1	3326.3
5°	3366.7	3330.0	3340.7	3329.0	3323.4
7.5°	3340.7	3304.6	3315.3	3303.7	3300.3
10°	3317.6	3283.8	3294.6	3282.9	3277.2
12.5°	3292.2	3256.1	3269.2	3255.2	3249.6
15°	3239.7	3205.9	3219.5	3207.9	3202.2
17.5°	3182.0	3145.9	3159.5	3146.1	3138.8
20°	3135.9	3102.0	3115.7	3095.4	3092.6
22.5°	3085.1	3051.3	3064.9	3037.8	3037.2
25°	3003.2	2966.5	2983.0	2951.2	2948.4
27.5°	2905.7	2871.8	2885.5	2853.1	2849.7
30°	2838.7	2804.9	2818.5	2783.8	2778.2
32.5°	2762.6	2731.0	2742.4	2707.7	2704.3
35°	2645.5	2614.4	2622.4	2587.7	2584.9
37.5°	2512.2	2484.0	2488.5	2450.4	2447.6
40°	2417.5	2389.3	2391.6	2351.1	2348.3
42.5°	2313.7	2285.5	2283.1	2242.7	2239.8
45°	2140.6	2112.4	2103.1	2065.5	2059.8
47.5°	1943.3	1915.1	1897.7	1867.0	1863.1
50°	1800.2	1772.0	1756.9	1730.7	1722.3
52.5°	1645.5	1617.3	1604.6	1580.7	1572.3
55°	1402.1	1379.5	1370.3	1347.1	1341.5
57.5°	1170.7	1155.5	1152.8	1130.3	1128.0
60°	1029.9	1021.4	1021.3	1001.1	1001.1
62.5°	909.9	903.7	908.2	894.8	892.6
65°	753.0	747.3	755.8	750.1	750.1
67.5°	628.9	628.9	634.1	631.8	631.8
70°	559.7	559.7	562.6	562.6	562.6
72.5°	497.4	495.1	502.5	502.5	500.2
75°	406.8	406.8	406.8	409.7	409.7
77.5°	316.8	317.3	319.6	319.0	316.8
80°	256.8	259.6	259.6	256.8	256.8
82.5°	196.8	199.6	199.6	199.0	196.8
85°	103.9	109.5	115.4	115.4	115.4
87.5°	30.7	40.4	48.9	49.2	47.3
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)