

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: P563643

Luminaire Tested: **SQ4-PP3-100U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563643  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-125D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

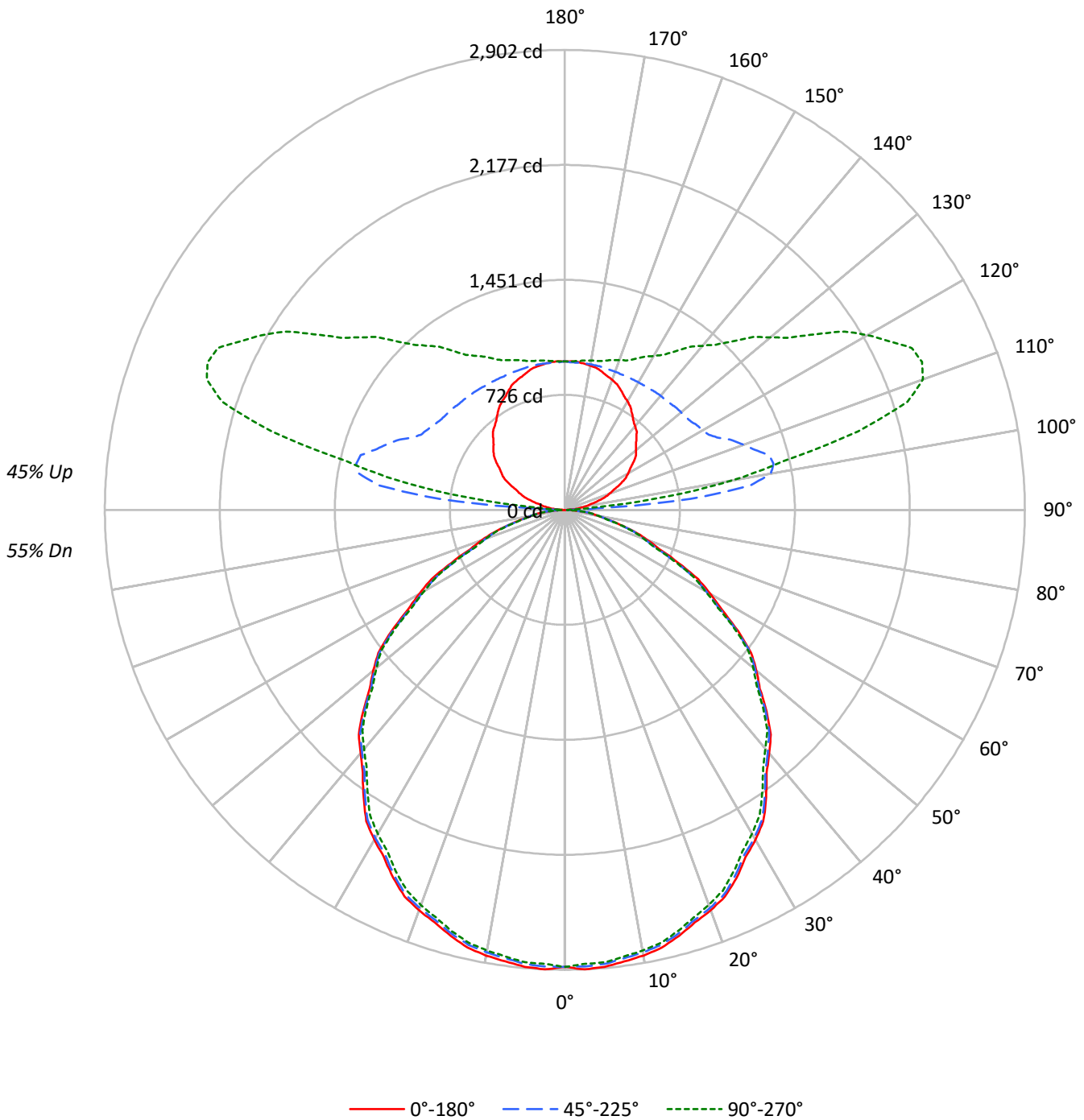
Lumens per Lamp: N/A  
Luminaire Lumens: 13468.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 107.3  
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	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17102
30°	17071	16982	16766
35°	16624	16511	16302
40°	16093	15991	15809
45°	15653	15543	15389
50°	15091	14995	14850
55°	14311	14121	14013
60°	13027	12655	12592
65°	11477	10998	10962
70°	9909	9499	9499
75°	8529	8408	8289
80°	7520	7608	7431
85°	5886	6422	6422



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.7	2.0
10°-20°	778.6	5.8
20°-30°	1166.3	8.7
30°-40°	1368.0	10.2
40°-50°	1372.3	10.2
50°-60°	1170.7	8.7
60°-70°	763.5	5.7
70°-80°	383.0	2.8
80°-90°	107.9	0.8
90°-100°	438.6	3.3
100°-110°	1210.8	9.0
110°-120°	1248.7	9.3
120°-130°	1003.5	7.5
130°-140°	788.6	5.9
140°-150°	604.8	4.5
150°-160°	434.7	3.2
160°-170°	265.8	2.0
170°-180°	89.6	0.7
0°-30°	2217.6	16.5
0°-40°	3585.6	26.6
0°-60°	6128.5	45.5
0°-90°	7382.9	54.8
90°-120°	2898.1	21.5
90°-150°	5295.0	39.3
90°-180°	6085.0	45.2
0°-180°	13468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2894	2867	2876	2866	2866	275
15°	2783	2756	2768	2757	2752	785
25°	2563	2533	2545	2522	2520	1178
35°	2214	2192	2199	2174	2171	1383
45°	1800	1787	1787	1769	1769	1386
55°	1334	1330	1317	1309	1307	1186
65°	789	774	756	751	753	787
75°	359	359	354	351	349	389
85°	83	91	91	91	91	98
90°	3	6	12	14	15	8
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2902.0	2878.3	2883.8	2879.5	2867.6
5°	2893.9	2866.8	2876.2	2866.1	2866.1
7.5°	2874.2	2844.6	2854.0	2843.9	2843.4
10°	2856.0	2826.4	2835.8	2825.6	2823.2
12.5°	2829.7	2800.1	2811.5	2799.4	2798.9
15°	2782.7	2755.5	2767.6	2757.3	2752.4
17.5°	2729.7	2700.0	2714.5	2700.3	2698.3
20°	2689.2	2659.6	2674.0	2653.8	2653.8
22.5°	2640.7	2611.0	2627.5	2601.3	2601.3
25°	2562.8	2533.2	2545.1	2522.3	2519.9
27.5°	2470.3	2441.2	2453.7	2427.9	2427.4
30°	2403.6	2376.4	2391.0	2363.1	2360.6
32.5°	2330.8	2305.6	2316.2	2288.3	2285.8
35°	2214.0	2191.8	2198.9	2173.6	2171.1
37.5°	2091.2	2068.5	2076.6	2054.8	2053.8
40°	2004.3	1989.4	1991.6	1973.8	1968.9
42.5°	1923.4	1906.6	1908.7	1891.0	1890.0
45°	1799.5	1787.2	1786.9	1769.2	1769.2
47.5°	1668.1	1658.7	1656.0	1641.3	1640.8
50°	1577.1	1569.7	1567.0	1554.3	1551.9
52.5°	1482.1	1478.6	1470.0	1459.3	1458.8
55°	1334.5	1329.6	1316.8	1309.2	1306.7
57.5°	1174.3	1164.4	1150.0	1138.9	1140.9
60°	1059.0	1049.1	1028.7	1023.6	1023.6
62.5°	947.8	935.9	915.4	908.5	912.4
65°	788.6	773.7	755.7	750.7	753.2
67.5°	644.0	630.7	611.1	611.1	609.1
70°	551.0	543.6	528.2	528.2	528.2
72.5°	468.1	464.6	453.4	453.4	451.4
75°	358.9	358.9	353.8	351.3	348.8
77.5°	268.9	269.9	267.4	264.8	260.3
80°	212.3	217.2	214.8	212.2	209.8
82.5°	159.7	164.7	164.3	159.7	159.2
85°	83.4	90.8	91.0	91.0	91.0
87.5°	22.8	31.3	34.7	35.1	37.4
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)