

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: P520140

Luminaire Tested: **SQ4-F-0U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520140  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

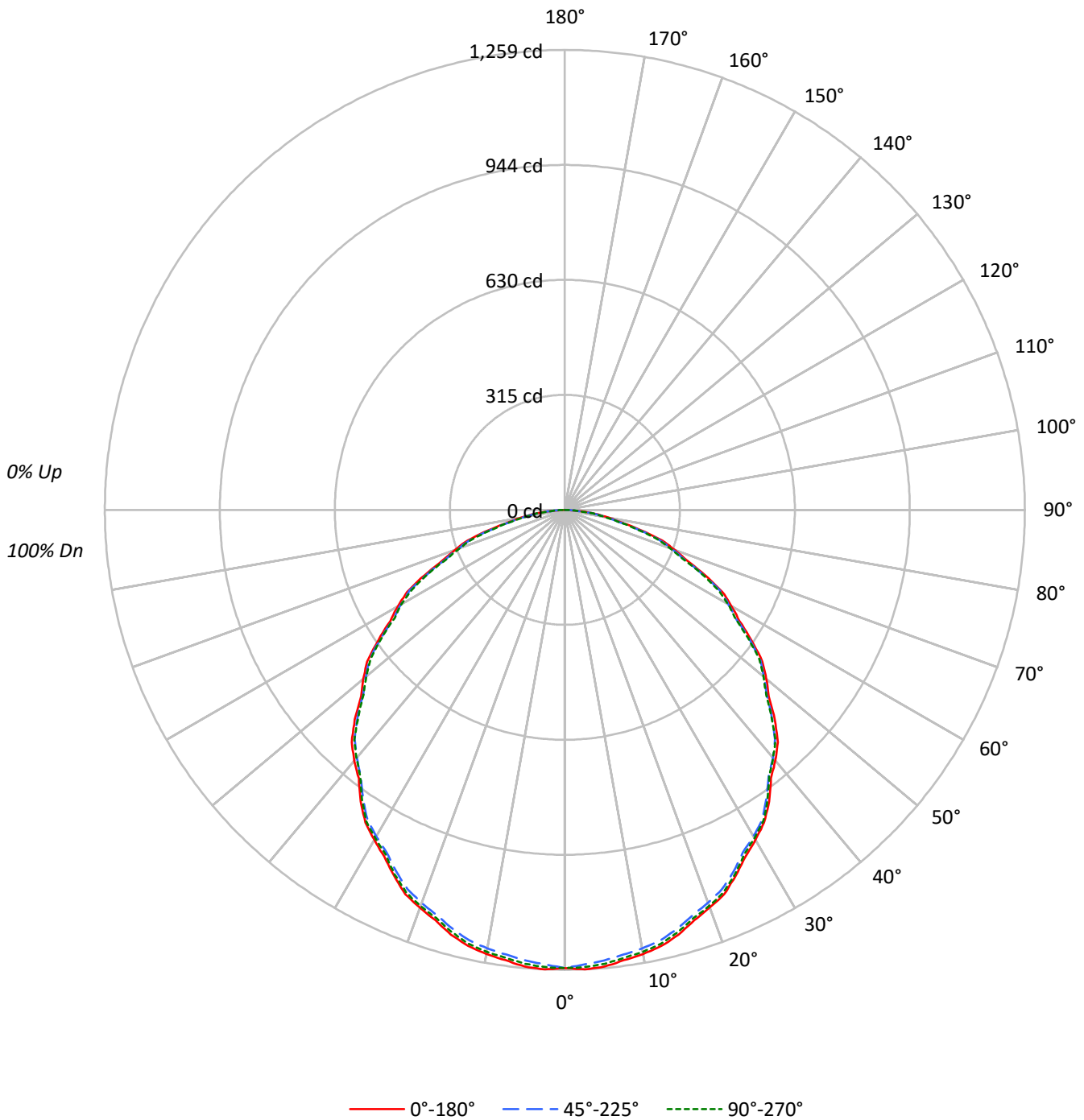
Lumens per Lamp: N/A  
Luminaire Lumens: 3421.2 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	11573	11573	11573
5°	11625	11466	11553
10°	11566	11421	11509
15°	11496	11340	11430
20°	11377	11242	11335
25°	11254	11122	11209
30°	11116	10997	11052
35°	10977	10841	10898
40°	10794	10670	10681
45°	10604	10458	10424
50°	10330	10207	10182
55°	10026	9915	9846
60°	9723	9547	9516
65°	9248	9040	8966
70°	8592	8384	8222
75°	7671	7429	7272
80°	6312	6084	5807
85°	3737	4097	4192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.4	3.5
10°-20°	337.1	9.9
20°-30°	506.3	14.8
30°-40°	604.2	17.7
40°-50°	619.3	18.1
50°-60°	551.5	16.1
60°-70°	411.1	12.0
70°-80°	222.6	6.5
80°-90°	50.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	961.8	28.1
0°-40°	1566.0	45.8
0°-60°	2736.8	80.0
0°-90°	3421.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3421.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1255	1253	1238	1249	1247	119
15°	1204	1199	1187	1197	1197	339
25°	1106	1103	1092	1099	1101	509
35°	975	970	962	964	968	608
45°	813	808	802	797	799	625
55°	623	624	616	610	612	558
65°	424	422	414	410	411	419
75°	215	213	208	204	204	229
85°	35	39	39	40	40	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1254.4	1254.4	1254.4	1254.4	1254.4
2.5°	1259.1	1256.5	1245.4	1254.3	1253.0
5°	1255.2	1252.7	1238.0	1249.1	1247.4
7.5°	1243.5	1241.0	1228.0	1238.3	1236.8
10°	1234.6	1232.0	1219.1	1229.4	1228.5
12.5°	1222.9	1220.3	1207.3	1217.6	1216.8
15°	1203.6	1199.4	1187.2	1196.7	1196.7
17.5°	1178.1	1174.9	1163.6	1171.5	1171.7
20°	1158.8	1156.3	1145.0	1153.6	1154.5
22.5°	1139.5	1137.0	1124.4	1132.3	1133.8
25°	1105.5	1102.9	1092.5	1098.6	1101.1
27.5°	1070.3	1066.6	1056.3	1061.8	1063.5
30°	1043.4	1041.8	1032.2	1034.9	1037.4
32.5°	1015.2	1013.5	1005.4	1006.7	1011.2
35°	974.6	970.3	962.5	964.3	967.6
37.5°	926.5	924.5	916.9	915.9	919.1
40°	896.2	892.8	885.9	884.2	886.8
42.5°	863.2	859.8	851.4	849.8	853.0
45°	812.7	808.5	801.5	797.2	798.9
47.5°	756.2	756.2	749.0	744.1	746.6
50°	719.7	719.7	711.1	706.9	709.4
52.5°	681.9	682.5	673.3	671.0	670.1
55°	623.3	624.1	616.4	610.4	612.1
57.5°	566.8	565.0	556.0	552.1	552.9
60°	526.9	524.3	517.4	511.5	515.7
62.5°	486.3	485.1	478.2	471.4	470.9
65°	423.6	421.9	414.1	409.8	410.7
67.5°	361.3	359.2	352.1	346.0	348.2
70°	318.5	318.5	310.8	307.3	304.8
72.5°	279.3	275.9	270.2	265.3	263.5
75°	215.2	212.7	208.4	204.0	204.0
77.5°	156.6	154.5	151.7	148.7	147.9
80°	118.8	118.0	114.5	113.5	109.3
82.5°	83.7	83.5	81.4	79.2	79.1
85°	35.3	38.6	38.7	39.6	39.6
87.5°	6.2	10.2	9.6	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)