

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: P562313

Luminaire Tested: **SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562313  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PW1-0U-075D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

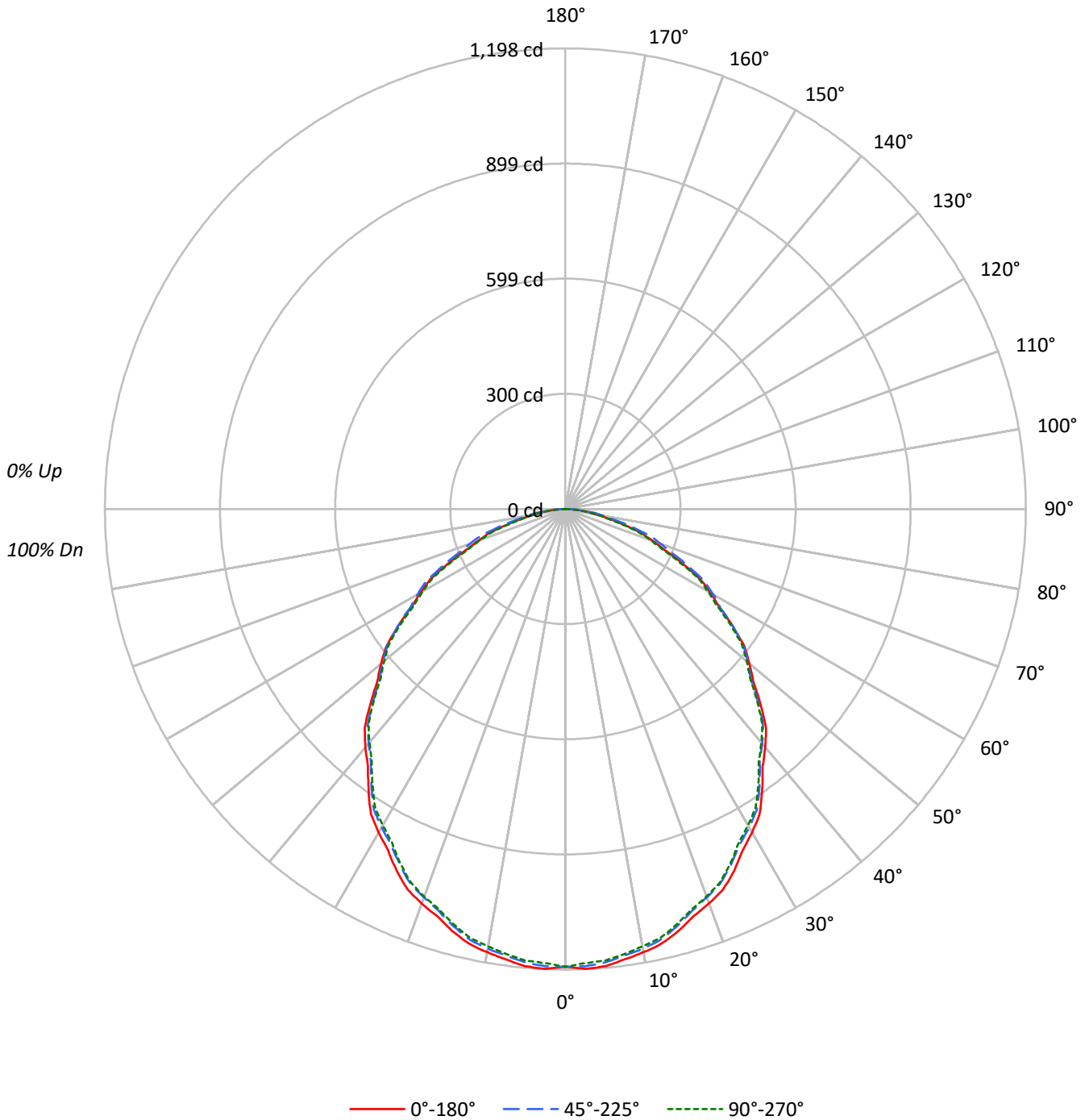
Lumens per Lamp: N/A  
Luminaire Lumens: 3029.5 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.9  
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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	10986	10986	10986
5°	11057	10969	10921
10°	10969	10881	10822
15°	10853	10732	10692
20°	10723	10558	10537
25°	10573	10381	10349
30°	10350	10193	10126
35°	10056	9914	9855
40°	9742	9591	9552
45°	9363	9240	9199
50°	8975	8899	8839
55°	8556	8556	8421
60°	8034	8189	7898
65°	7353	7719	7169
70°	6480	7103	6312
75°	5536	6356	5386
80°	4293	5350	4346
85°	2774	4107	3663



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	3.7
10°-20°	316.6	10.4
20°-30°	469.6	15.5
30°-40°	549.4	18.1
40°-50°	547.0	18.1
50°-60°	472.3	15.6
60°-70°	340.0	11.2
70°-80°	178.3	5.9
80°-90°	44.2	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°	898.3	29.7
0°-40°	1447.7	47.8
0°-60°	2467.0	81.4
0°-90°	3029.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1194	1181	1184	1181	1179	113
15°	1136	1122	1124	1122	1119	320
25°	1039	1021	1020	1014	1017	478
35°	893	880	880	872	875	558
45°	718	711	708	706	705	554
55°	532	531	532	524	524	475
65°	337	347	354	340	328	334
75°	155	170	178	166	151	166
85°	26	34	39	37	35	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1190.7	1190.7	1190.7	1190.7	1190.7
2.5°	1197.5	1187.6	1190.7	1188.1	1182.3
5°	1193.9	1180.6	1184.4	1181.3	1179.2
7.5°	1181.7	1169.4	1172.3	1168.9	1167.7
10°	1170.8	1158.5	1161.4	1157.1	1155.1
12.5°	1158.2	1145.1	1147.9	1143.7	1142.5
15°	1136.2	1121.8	1123.6	1121.5	1119.4
17.5°	1110.6	1096.0	1096.3	1093.0	1092.5
20°	1092.1	1076.7	1075.3	1071.2	1073.2
22.5°	1072.0	1055.8	1054.4	1048.5	1051.4
25°	1038.6	1021.2	1019.7	1013.5	1016.6
27.5°	1000.0	982.8	982.8	974.1	977.4
30°	971.5	955.1	956.8	946.4	950.5
32.5°	941.3	926.5	927.4	917.0	921.1
35°	892.8	880.5	880.2	871.9	875.0
37.5°	843.3	832.4	830.7	825.9	826.7
40°	808.9	799.6	796.3	793.1	793.1
42.5°	772.8	764.4	761.0	758.7	757.9
45°	717.6	711.4	708.2	706.0	705.0
47.5°	663.0	657.3	654.4	652.9	651.9
50°	625.3	621.2	620.0	616.9	615.8
52.5°	587.5	585.0	583.9	579.9	578.9
55°	531.9	530.9	531.9	524.5	523.5
57.5°	474.0	475.6	479.0	469.1	466.6
60°	435.4	439.5	443.8	432.1	428.0
62.5°	395.9	402.5	408.5	395.2	389.4
65°	336.8	347.0	353.6	339.7	328.4
67.5°	279.7	292.4	300.3	285.3	272.6
70°	240.2	254.6	263.3	248.3	234.0
72.5°	205.8	221.8	228.9	214.7	200.4
75°	155.3	169.6	178.3	166.5	151.1
77.5°	110.2	123.7	130.9	120.6	107.8
80°	80.8	95.1	100.7	92.1	81.8
82.5°	57.3	69.2	73.0	67.8	60.8
85°	26.2	34.4	38.8	36.7	34.6
87.5°	6.7	12.5	15.9	16.0	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)