

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: P562317

Luminaire Tested: **SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562317  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

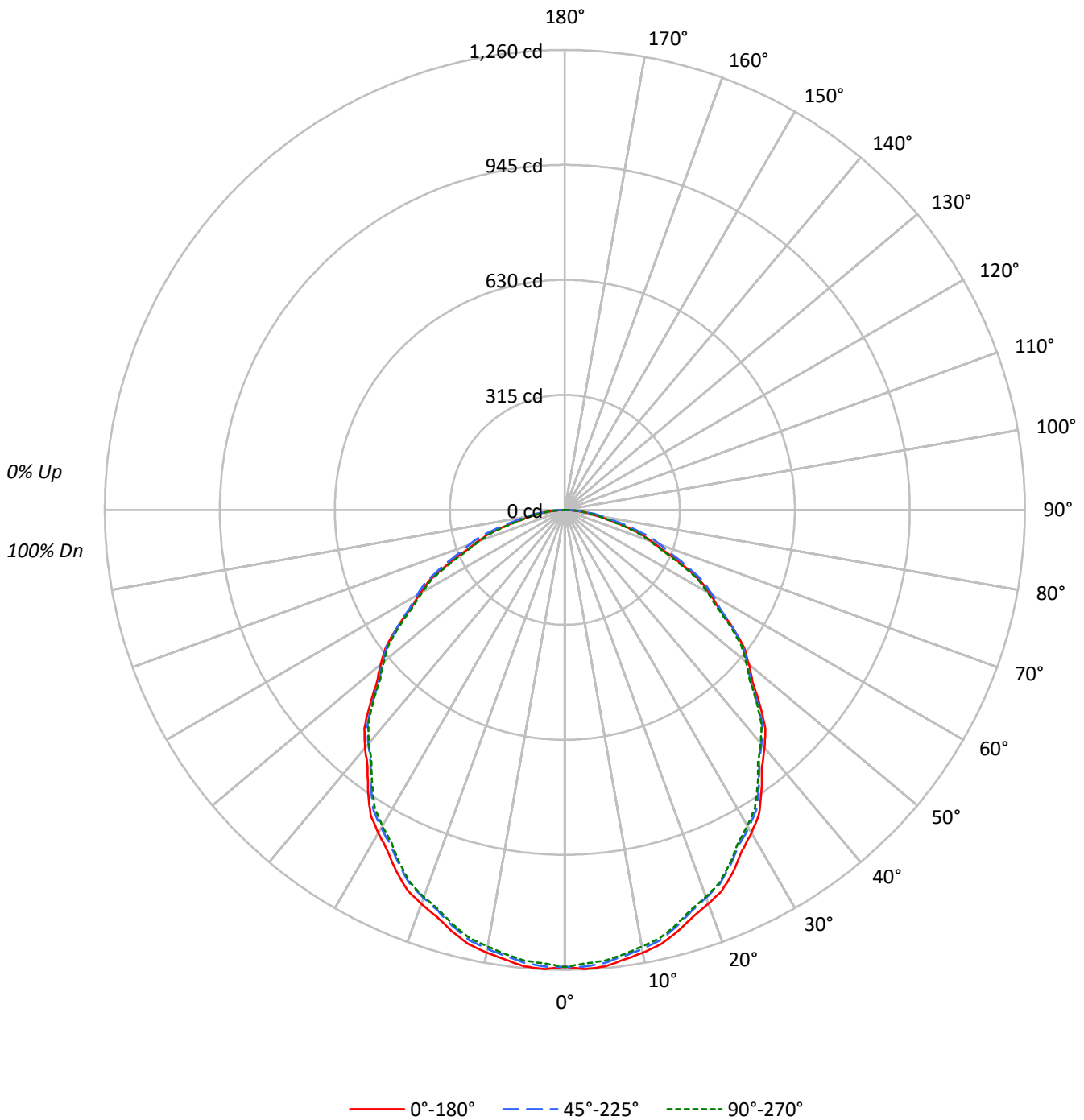
Lumens per Lamp: N/A  
Luminaire Lumens: 3186.8 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.7  
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°	11556	11556	11556
5°	11631	11539	11488
10°	11538	11445	11383
15°	11415	11289	11247
20°	11279	11106	11084
25°	11122	10919	10885
30°	10887	10722	10651
35°	10577	10429	10367
40°	10247	10088	10048
45°	9848	9719	9676
50°	9440	9361	9298
55°	9000	9000	8858
60°	8451	8614	8307
65°	7733	8119	7540
70°	6817	7472	6639
75°	5821	6687	5664
80°	4516	5627	4575
85°	2922	4319	3853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.9	3.7
10°-20°	333.0	10.4
20°-30°	493.9	15.5
30°-40°	578.0	18.1
40°-50°	575.4	18.1
50°-60°	496.9	15.6
60°-70°	357.6	11.2
70°-80°	187.5	5.9
80°-90°	46.5	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°	944.9	29.6
0°-40°	1522.8	47.8
0°-60°	2595.1	81.4
0°-90°	3186.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1256	1242	1246	1242	1240	119
15°	1195	1180	1182	1180	1178	337
25°	1092	1074	1073	1066	1069	502
35°	939	926	926	917	920	587
45°	755	748	745	743	742	582
55°	560	558	560	552	551	499
65°	354	365	372	357	345	351
75°	163	178	188	175	159	175
85°	28	36	41	39	36	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1252.5	1252.5	1252.5	1252.5	1252.5
2.5°	1259.6	1249.2	1252.5	1249.7	1243.7
5°	1255.8	1241.8	1245.9	1242.5	1240.4
7.5°	1243.0	1230.1	1233.1	1229.5	1228.2
10°	1231.6	1218.6	1221.6	1217.2	1215.0
12.5°	1218.3	1204.5	1207.5	1203.1	1201.8
15°	1195.1	1180.0	1181.9	1179.6	1177.5
17.5°	1168.2	1152.9	1153.2	1149.7	1149.2
20°	1148.8	1132.6	1131.1	1126.8	1128.9
22.5°	1127.6	1110.6	1109.1	1103.0	1106.0
25°	1092.5	1074.2	1072.6	1066.1	1069.3
27.5°	1051.9	1033.8	1033.8	1024.6	1028.1
30°	1021.9	1004.6	1006.4	995.5	999.8
32.5°	990.1	974.6	975.5	964.6	968.9
35°	939.1	926.2	925.9	917.1	920.4
37.5°	887.0	875.6	873.8	868.7	869.6
40°	850.8	841.1	837.6	834.3	834.3
42.5°	812.9	804.0	800.5	798.1	797.2
45°	754.8	748.4	744.9	742.7	741.6
47.5°	697.4	691.4	688.4	686.8	685.7
50°	657.7	653.4	652.2	648.9	647.8
52.5°	618.0	615.4	614.2	610.0	608.9
55°	559.5	558.4	559.5	551.7	550.7
57.5°	498.6	500.3	503.9	493.4	490.9
60°	458.0	462.3	466.8	454.6	450.2
62.5°	416.5	423.4	429.7	415.7	409.6
65°	354.2	365.0	371.9	357.3	345.4
67.5°	294.2	307.6	315.8	300.1	286.7
70°	252.7	267.8	277.0	261.2	246.1
72.5°	216.5	233.3	240.8	225.9	210.8
75°	163.3	178.4	187.6	175.1	158.9
77.5°	115.9	130.1	137.7	126.8	113.4
80°	85.0	100.1	105.9	96.9	86.1
82.5°	60.3	72.8	76.8	71.3	64.0
85°	27.6	36.2	40.8	38.6	36.4
87.5°	7.1	13.1	16.8	16.8	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)