

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: P564847

Luminaire Tested: **SQ4-PW1-0U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564847  
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-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

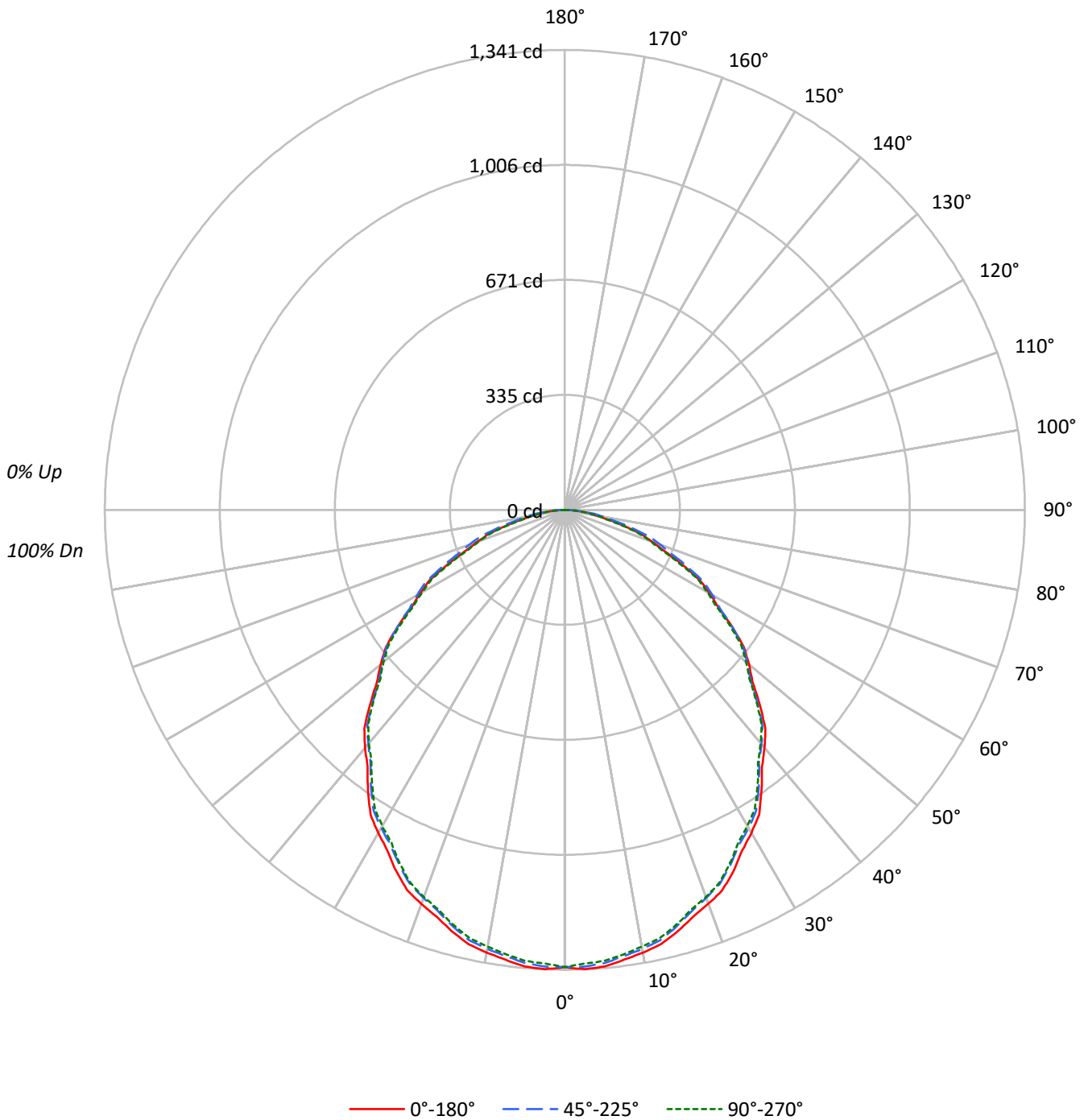
Lumens per Lamp: N/A  
Luminaire Lumens: 3392.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7158	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6113	5895
65°	5487	5760	5352
70°	4838	5302	4710
75°	4130	4746	4019
80°	3202	3995	3245
85°	2075	3070	2738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	3.7
10°-20°	354.4	10.4
20°-30°	525.7	15.5
30°-40°	615.2	18.1
40°-50°	612.4	18.1
50°-60°	528.8	15.6
60°-70°	380.7	11.2
70°-80°	199.6	5.9
80°-90°	49.5	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°	1005.7	29.6
0°-40°	1620.9	47.8
0°-60°	2762.2	81.4
0°-90°	3392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1337	1322	1326	1323	1320	127
15°	1272	1256	1258	1256	1253	359
25°	1163	1143	1142	1135	1138	535
35°	1000	986	986	976	980	625
45°	803	796	793	790	789	620
55°	596	594	596	587	586	531
65°	377	388	396	380	368	374
75°	174	190	200	186	169	186
85°	29	39	44	41	39	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1333.2	1333.2	1333.2	1333.2	1333.2
2.5°	1340.7	1329.7	1333.2	1330.2	1323.8
5°	1336.7	1321.8	1326.1	1322.6	1320.3
7.5°	1323.1	1309.3	1312.5	1308.7	1307.3
10°	1310.9	1297.1	1300.3	1295.5	1293.2
12.5°	1296.8	1282.1	1285.3	1280.5	1279.1
15°	1272.1	1256.0	1258.0	1255.6	1253.3
17.5°	1243.4	1227.1	1227.5	1223.7	1223.2
20°	1222.8	1205.5	1204.0	1199.3	1201.6
22.5°	1200.2	1182.1	1180.5	1174.0	1177.2
25°	1162.9	1143.3	1141.7	1134.8	1138.2
27.5°	1119.6	1100.3	1100.4	1090.6	1094.3
30°	1087.7	1069.3	1071.2	1059.6	1064.2
32.5°	1053.9	1037.3	1038.4	1026.7	1031.3
35°	999.6	985.8	985.5	976.2	979.6
37.5°	944.2	932.0	930.1	924.7	925.6
40°	905.6	895.3	891.5	888.0	888.0
42.5°	865.2	855.8	852.1	849.5	848.5
45°	803.4	796.5	792.9	790.5	789.3
47.5°	742.4	735.9	732.7	731.1	729.9
50°	700.1	695.5	694.2	690.6	689.5
52.5°	657.8	655.0	653.8	649.3	648.1
55°	595.5	594.4	595.5	587.3	586.1
57.5°	530.7	532.5	536.3	525.2	522.5
60°	487.5	492.1	496.9	483.8	479.2
62.5°	443.3	450.6	457.4	442.4	436.0
65°	377.0	388.5	395.8	380.3	367.7
67.5°	313.2	327.4	336.2	319.4	305.2
70°	269.0	285.1	294.8	278.0	261.9
72.5°	230.5	248.4	256.3	240.4	224.4
75°	173.8	189.9	199.7	186.4	169.1
77.5°	123.3	138.5	146.6	135.0	120.7
80°	90.4	106.5	112.8	103.1	91.6
82.5°	64.1	77.5	81.8	75.9	68.1
85°	29.4	38.6	43.5	41.1	38.8
87.5°	7.5	13.9	17.9	17.9	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)